PRODUCT CATALOGUE · BATTERY COMPONENTS

Battery components

Cell connectors & end cables · REMA battery connectors · Albright DC contactors · Micropower battery chargers · Micropower DC-DC converters · Istec condition monitoring and speed monitoring

CONTENTS

Product catalogue

Cell connectors & end cables

Frötek and MSS · Flex and Perfect connectors · end cables · rigid connectors · screws & accessories · charging cables

REMA battery connectors

Euro DIN · MRC · FT · JH · SR · SRE · SRX · explosion-proof

Albright DC contactors

SW · SU · DC motor reversing · HV500 · emergency switches

Micropower battery chargers

SC · SX · SQ · ST · SL · RC · Robust · Access · Lion · Sharp · Champ · ABC · PAC/PAP · workshop and rescue chargers

Micropower DC-DC converters

DC-DC converters · isolated and non-isolated · DC-DC chargers · equalizers · defence versions

Istec condition monitoring and speed monitoring

VibSys · accelerometers · SpeedSys · RecipSys

PRODUCT RANGE

Cell connectors & end cables

Components for assembling industrial traction batteries from individual cells. MK-Controls Oy offers the range from two manufacturers — Frötek and MSS — under one set of order codes, from welded flex and Perfect-type connectors to rigid bars, terminal hardware and charging leads.

Connectors can also be supplied as complete cable assemblies with single- or multi-pole connectors and any accessories you need.

25–120
mm² standard sections

M10
standard connection

200–500 A
integrated fuse option

Two brands, one code. Every code is available as original Frötek or as an equivalent MSS product. State your preferred brand when ordering, e.g. Frötek VS50-110 or MSS VS50-110.

01



End cables “Flex”
ES · EH · ESU

02



Cell connectors “Flex”
VS · VH

03



End cables “Perfect”
ESPH · EHPH

04



Cell connectors “Perfect”
VSPH · VHPH

05



Rigid overmolded connectors
SV

06



Screws & accessories
SCR · VPH-CAP · ROND · ZGEL

07



Charging cables
VC · VSI · VTI

Reading an order code

VS50-110M8

- **Type** VS = cell connector Flex
- **Section** in mm²
- **Length** in mm
- **Connection** blank = M10

VS
Cell connector Flex

VH
Cell connector Flex, 120 mm² ferrule

VSPH
Cell connector Perfect

VHPH
Cell connector Perfect, 120 mm² ferrule

ES
End cable Flex

EH
End cable Flex, 120 mm² ferrule

ESU
End cable Flex, Sunlight

ESPH
End cable Perfect

EHPH
End cable Perfect, 120 mm² ferrule

SV
Rigid connector (width×thickness)

SCR
Terminal screw (-MM = with testing point)

VPH-CAP
Perfect cap (NEG / POS)

ROND
Copper ring / gasket

ZGEL
Tray cable clamp

VC · VSI · VTI
Charging cables

Suffixes
M6 / M8 connection · F3A / FUS3 = 300 A fuse · -NP uncoated

01

End cables “Flex”



Flexible take-off leads with welded cable connection and M10 terminal as standard. Supplied in standard cross-sections from 25 to 120 mm² and lengths up to 7 m.

CONNECTION	TECHNIQUE	SECTIONS	CODE FAMILY
M10 (M6 / M8 on request)	**Welded · 120 mm² ferrule**	**25 – 120 mm²**	**ES · EH · ESU**

Click any order code to open it in our webshop: **mkcontrols.eu**

25 mm² — 6 variants

ORDER CODE	LENGTH (MM)	PACK	€
ES25-300	300	100	17,00
ES25-500 6102520500	500	70	17,50
ES25-1000 6102521000	1 000	40	18,50
ES25-1200 6102521200	1 200	40	21,00
ES25-1500 6102521500	1 500	30	24,50
ES25-2000 6102522000	2 000	20	29,00

35 mm² — 10 variants

ORDER CODE	LENGTH (MM)	PACK	€
ES35-300	300	100	19,00
ES35-500 6103520500	500	70	21,00
ES35-1000 6103521000	1 000	40	26,50
ES35-1200 6103521200	1 200	40	28,50
ES35-1500 6103521500	1 500	30	31,00
ES35-1600 6103521600	1 600	20	32,50
ES35-2000 6103522000	2 000	20	35,50
ES35-2500 6103522500	2 500	16	41,50
ES35-3000 6103523000	3 000	16	47,00
ES35-3500 6103523500	3 500	10	52,00

50 mm² — 12 variants

ORDER CODE	LENGTH (MM)	PACK	€
ES50-300	300	100	19,00
ES50-500 6105020500	500	50	21,00
ES50-1000 6105021000	1 000	30	31,50
ES50-1200 6105021200	1 200	26	34,50
ES50-1500 6105021500	1 500	26	37,50
ES50-1600 6105021600	1 600	26	39,00
ES50-2000 6105022000	2 000	16	43,00
ES50-2500 6105022500	2 500	10	55,50
ES50-3000 6105023000	3 000	6	58,50
ES50-3200 6105023200	3 200	6	68,50
ES50-4000 6105024000	4 000	6	83,50
ES50-5000 6105025000	5 000	6	102,00

70 mm² — 11 variants

ORDER CODE	LENGTH (MM)	PACK	€
ES70-300	300	80	19,00
ES70-500 6107020500	500	50	21,00
ES70-1000 6107021000	1 000	20	38,00
ES70-1200 6107021200	1 200	16	44,00
ES70-1500 6107021500	1 500	16	53,00
ES70-2000 6107022000	2 000	10	68,50
ES70-2500 6107022500	2 500	8	84,00
ES70-3000 6107023000	3 000	6	99,50
ES70-4000 6107024000	4 000	6	126,00
ES70-5000 6107025000	5 000	6	156,00
ES70-7000 6107027000	7 000	2	215,00

95 mm² — 7 variants

ORDER CODE	LENGTH (MM)	PACK	€
ES95-1000 6109521000	1 000	15	53,00
ES95-1200 6109521200	1 200	15	61,50
ES95-1500 6109521500	1 500	10	80,50
ES95-1600 6109521600	1 600	10	80,50
ES95-2000 6109522000	2 000	6	98,00
ES95-2500 6109522500	2 500	6	116,00
ES95-3000 6109523000	3 000	6	133,00



120 mm² version

For 120 mm² the connection is made with ferrule technique. Standard connection M10.

120 mm² — 5 variants

ORDER CODE	LENGTH (MM)	PACK	€
EH120-1000 78011511	1 000	10	68,00
EH120-1500 78011512	1 500	10	87,00
EH120-2000 78011515	2 000	10	102,00
EH120-3000	3 000	8	168,00
EH120-5000	5 000	5	282,00



“Sunlight” version

For Sunlight batteries: slightly larger inner insulation diameter (16.5 mm) to fit the terminal. Recognisable by a notch on the outside of the insulation.

25 mm² — 6 variants

ORDER CODE	LENGTH (MM)	PACK	€
ESU25-300	300	100	17,00
ESU25-500	500	70	17,50
ESU25-1000	1 000	40	20,00
ESU25-1200	1 200	40	21,00
ESU25-1500	1 500	30	22,50
ESU25-2000	2 000	20	25,00

35 mm² — 10 variants

ORDER CODE	LENGTH (MM)	PACK	€
ESU35-300	300	100	19,00
ESU35-500	500	70	21,00
ESU35-1000	1 000	40	26,50
ESU35-1200	1 200	40	28,50
ESU35-1500	1 500	30	31,50
ESU35-1600	1 600	20	32,50
ESU35-2000	2 000	20	36,50
ESU35-2500	2 500	16	41,50
ESU35-3000	3 000	16	46,50
ESU35-3500	3 500	10	52,00

50 mm² — 12 variants

ORDER CODE	LENGTH (MM)	PACK	€
ESU50-300	300	100	19,00
ESU50-500	500	50	21,00
ESU50-1000	1 000	30	28,00
ESU50-1200	1 200	26	31,50
ESU50-1500	1 500	26	37,00
ESU50-1600	1 600	26	39,00
ESU50-2000	2 000	16	46,50
ESU50-2500	2 500	10	55,50
ESU50-3000	3 000	6	65,00
ESU50-3200	3 200	6	68,50
ESU50-4000	4 000	6	83,50
ESU50-5000	5 000	6	102,00

70 mm² — 11 variants

ORDER CODE	LENGTH (MM)	PACK	€
ESU70-300	300	80	19,00
ESU70-500	500	50	23,50
ESU70-1000	1 000	20	38,00
ESU70-1200	1 200	16	44,00
ESU70-1500	1 500	16	53,00
ESU70-2000	2 000	10	67,50
ESU70-2500	2 500	8	82,00
ESU70-3000	3 000	6	97,00
ESU70-4000	4 000	6	126,00
ESU70-5000	5 000	6	156,00
ESU70-7000	7 000	2	215,00

95 mm² — 7 variants

ORDER CODE	LENGTH (MM)	PACK	€
ESU95-1000	1 000	15	53,00
ESU95-1200	1 200	15	61,50
ESU95-1500	1 500	10	74,50
ESU95-1600	1 600	10	79,00
ESU95-2000	2 000	6	96,00
ESU95-2500	2 500	6	118,00
ESU95-3000	3 000	6	139,00

Other versions on request

M6 and M8 connections

ES50-1500M8 = End cable Flex 50 mm² / 1500 mm, M8

Other sections: 10 / 16 / 107 mm²

ES16-1000 = End cable Flex 16 mm² / 1000 mm

UL94 V0 flammability rating available

V0: burning stops within 10 s on a vertical specimen; non-flaming drips allowed.

For these versions, please contact us.

Other lengths

ES50-800 = End cable Flex 50 mm² / 800 mm

Integrated fuse, 200–500 A (max. 70 mm²)

ES50-1000-FUS3 = End cable Flex 50 mm² / 1000 mm with 300 A fuse

02

Cell connectors “Flex”

Flexible cell-to-cell connectors with welded connection and M10 terminals. Short lengths from 75 mm for compact battery layouts.



CONNECTION	TECHNIQUE	SECTIONS	CODE FAMILY
M10 (M6 / M8 on request)	Welded · 120 mm² ferrule	25 – 120 mm²	VS · VH

Click any order code to open it in our webshop: **mkcontrols.eu**

25 mm² — 10 variants

ORDER CODE	LENGTH (MM)	PACK	€
VS25-075 6102510075	75	300	2,70
VS25-085	85	300	2,90
VS25-095 6102510095	95	300	3,10
VS25-110 6102510110	110	300	3,20
VS25-130 6102510130	130	250	3,40
VS25-150 6102510150	150	250	3,60
VS25-170 6102510170	170	200	3,80
VS25-190 6102510190	190	200	4,20
VS25-210 6102510210	210	150	4,80
VS25-300 6102510300	300	100	5,60

35 mm² — 12 variants

ORDER CODE	LENGTH (MM)	PACK	€
VS35-075 6103510075	75	300	2,90
VS35-085	85	300	3,10
VS35-095 6103510095	95	300	3,30
VS35-110 6103510110	110	300	3,60
VS35-130 6103510130	130	250	4,00
VS35-150 6103510150	150	250	4,20
VS35-170 6103510170	170	200	4,50
VS35-190 6103510190	190	100	4,90
VS35-210 6103510210	210	100	5,30
VS35-230 6103510230	230	100	5,90
VS35-250 6103510250	250	100	6,30
VS35-300 6103510300	300	100	7,10

50 mm² — 12 variants

ORDER CODE	LENGTH (MM)	PACK	€
VS50-075 6105010075	75	250	3,40
VS50-085	85	250	3,80
VS50-095 6105010095	95	250	4,10
VS50-110 6105010110	110	250	4,10
VS50-130 6105010130	130	200	4,60
VS50-150 6105010150	150	200	5,70
VS50-170 6105010170	170	150	5,70
VS50-190 6105010190	190	120	6,00
VS50-210 6105010210	210	120	6,30
VS50-230 6105010230	230	100	6,60
VS50-250 6105010250	250	100	7,20
VS50-300 6105010300	300	100	8,80

70 mm² — 9 variants

ORDER CODE	LENGTH (MM)	PACK	€
VS70-095 6107010095	95	200	5,20
VS70-110 6107010110	110	200	5,60
VS70-130 6107010130	130	150	6,10
VS70-150 6107010150	150	150	6,80
VS70-170 6107010170	170	120	7,20
VS70-190 6107010190	190	120	8,00
VS70-210 6107010210	210	120	8,70
VS70-250 6107010250	250	100	10,50
VS70-300	300	80	11,50

95 mm² — 7 variants

ORDER CODE	LENGTH (MM)	PACK	€
VS95-110 6109510110	110	100	6,70
VS95-130 6109510130	130	76	7,30
VS95-150 6109510150	150	76	8,10
VS95-170 6109510170	170	60	9,00
VS95-190 6109510190	190	50	9,70
VS95-210 6109510210	210	50	10,50
VS95-300 6109510300	300	50	16,00



120 mm² version

For 120 mm² the connection is made with ferrule technique. Standard connection M10.

120 mm² — 7 variants

ORDER CODE	LENGTH (MM)	PACK	€
VH120-110 78010506	110	100	15,00
VH120-150	150	75	17,00
VH120-170 78010546	170	75	18,00
VH120-210 78010501	210	50	27,50
VH120-250 78010544	250	50	27,50
VH120-300 78010524	300	50	27,50
VH120-450	450	40	31,50

Other versions on request

M6 and M8 connections
VS70-300M8 = Cell connector Flex 70 mm² / 300 mm, M8

Other sections: 10 / 16 / 107 mm²
VS16-250 = Cell connector Flex 16 mm² / 250 mm

UL94 V0 flammability rating available
V0: burning stops within 10 s on a vertical specimen; non-flaming drips allowed.

For these versions, please contact us.

Other lengths
VS25-1000 = Cell connector Flex 25 mm² / 1000 mm

Integrated fuse, 200–500 A (max. 70 mm²)
VS35-350F3A = Cell connector Flex 35 mm² / 350 mm with 300 A fuse

03

End cables “Perfect”

Take-off leads with the Perfect (Hawker-type) terminal head and welded cable connection. Compatible with the Perfect caps and screws in chapter 06.



CONNECTION	TECHNIQUE	SECTIONS	CODE FAMILY
M10	Welded · 120 mm² ferrule	25 – 120 mm²	ESPH · EHPH

Click any order code to open it in our webshop: **mkcontrols.eu**

25 mm²

10 variants

ORDER CODE	LENGTH (MM)	PACK	€
ESPH25-700 6202520700	700	45	9,50
ESPH25-800 6202520800	800	50	11,50
ESPH25-900 6202520900	900	45	12,00
ESPH25-1000 6202521000	1 000	40	14,00
ESPH25-1200 6202521200	1 200	40	16,00
ESPH25-1400 6202521400	1 400	30	18,50
ESPH25-1500 6202521500	1 500	30	19,50
ESPH25-1800 6202521800	1 800	30	23,00
ESPH25-2200 6202522200	2 200	15	27,50
ESPH25-3000 6202523000	3 000	10	36,50

50 mm²

10 variants

ORDER CODE	LENGTH (MM)	PACK	€
ESPH50-600 6205020600	600	25	15,00
ESPH50-800 6205020800	800	25	20,00
ESPH50-1000 6205021000	1 000	25	23,00
ESPH50-1400 6205021400	1 400	20	31,50
ESPH50-1500 6205021500	1 500	20	33,00
ESPH50-1800 6205021800	1 800	15	39,50
ESPH50-2000 6205022000	2 000	15	43,50
ESPH50-2200 6205022200	2 200	10	48,00
ESPH50-2600 6205022600	2 600	10	56,00
ESPH50-3000 6205023000	3 000	5	63,50

95 mm²

6 variants

ORDER CODE	LENGTH (MM)	PACK	€
ESPH95-1000 6209521000	1 000	20	39,50
ESPH95-1200 6209521200	1 200	20	47,00
ESPH95-1500 6209521500	1 500	15	59,50
ESPH95-2000 6209522000	2 000	10	76,50
ESPH95-2500 6209522500	2 500	5	96,00
ESPH95-3000 6209523000	3 000	5	114,00

35 mm²

10 variants

ORDER CODE	LENGTH (MM)	PACK	€
ESPH35-650 6203520650	650	45	13,00
ESPH35-800 6203520800	800	50	20,00
ESPH35-850 6203520850	850	45	20,00
ESPH35-1000 6203521000	1 000	40	20,00
ESPH35-1250 6203521250	1 250	40	22,50
ESPH35-1400 6203521400	1 400	30	24,00
ESPH35-1500 6203521500	1 500	30	26,00
ESPH35-1800 6203521800	1 800	30	30,50
ESPH35-2200 6203522200	2 200	15	37,50
ESPH35-3000 6203523000	3 000	10	49,50

70 mm²

8 variants

ORDER CODE	LENGTH (MM)	PACK	€
ESPH70-600 6207020600	600	25	20,50
ESPH70-800 6207020800	800	25	26,50
ESPH70-1000 6207021000	1 000	25	32,00
ESPH70-1400 6207021400	1 400	20	43,00
ESPH70-1500 6207021500	1 500	20	46,00
ESPH70-1800 6207021800	1 800	15	54,50
ESPH70-2200 6207022200	2 200	10	65,50
ESPH70-3000 6207023000	3 000	5	89,00



120 mm² version

For 120 mm² the connection is made with ferrule technique. Standard connection M10.

120 mm² — 3 variants

ORDER CODE	LENGTH (MM)	PACK	€
EHPH120-2000	2 000	5	125,00
EHPH120-2200	2 200	5	125,00
EHPH120-3000	3 000	4	161,00

Other versions on request

Other lengths
ESPH35-2750 = End cable Perfect 35 mm² / 2750 mm

Integrated fuse, 200–500 A (max. 70 mm²)
ESPH50-1500-FUS5 = End cable Perfect 50 mm² / 1500 mm with 500 A fuse

For these versions, please contact us.

Other sections: 10 / 16 mm²
ESPH16-1000 = End cable Perfect 16 mm² / 1000 mm

UL94 V0 flammability rating available
V0: burning stops within 10 s on a vertical specimen; non-flaming drips allowed.

04

Cell connectors “Perfect”

Perfect-type cell connectors with welded connection, for Hawker-style battery assemblies. Lengths from 80 mm.



CONNECTION	TECHNIQUE	SECTIONS	CODE FAMILY
M10	Welded · 120 mm² ferrule	25 – 120 mm²	VSPH · VHPH

Click any order code to open it in our webshop: **mkcontrols.eu**

25 mm²

8 variants

ORDER CODE	LENGTH (MM)	PACK	€
VSPH25-080 6202510080	80	216	2,80
VSPH25-095 6202510095	95	192	2,90
VSPH25-110 6202510110	110	168	3,00
VSPH25-130 6202510130	130	156	3,20
VSPH25-150 6202510150	150	144	3,30
VSPH25-200 6202510200	200	120	3,90
VSPH25-250 6202510250	250	84	4,50
VSPH25-300 6202510300	300	48	5,00

35 mm²

9 variants

ORDER CODE	LENGTH (MM)	PACK	€
VSPH35-080 6203510080	80	216	2,90
VSPH35-095 6203510095	95	192	3,10
VSPH35-110 6203510110	110	168	3,30
VSPH35-130 6203510130	130	156	3,50
VSPH35-150 6203510150	150	144	3,60
VSPH35-170 6203510170	170	120	4,00
VSPH35-200 6203510200	200	120	4,40
VSPH35-250 6203510250	250	48	5,10
VSPH35-300 6203510300	300	48	5,50

50 mm²

7 variants

ORDER CODE	LENGTH (MM)	PACK	€
VSPH50-095 6205010095	95	180	3,70
VSPH50-110 6205010110	110	144	3,90
VSPH50-130 6205010130	130	144	4,30
VSPH50-150 6205010150	150	144	4,60
VSPH50-170 6205010170	170	120	4,90
VSPH50-200 6205010200	200	120	5,40
VSPH50-300 6205010300	300	60	7,00

70 mm²

8 variants

ORDER CODE	LENGTH (MM)	PACK	€
VSPH70-095 6207010095	95	180	4,80
VSPH70-110 6207010110	110	144	5,20
VSPH70-130 6207010130	130	144	5,60
VSPH70-150 6207010150	150	144	6,00
VSPH70-170 6207010170	170	120	6,40
VSPH70-200 6207010200	200	108	7,30
VSPH70-250 6207010250	250	84	8,20
VSPH70-300 6207010300	300	60	9,10

95 mm²

8 variants

ORDER CODE	LENGTH (MM)	PACK	€
VSPH95-095 6209510095	95	180	5,30
VSPH95-110 6209510110	110	144	5,80
VSPH95-130 6209510130	130	120	6,30
VSPH95-150 6209510150	150	120	6,90
VSPH95-170 6209510170	170	120	7,60
VSPH95-190 6209510190	190	100	8,20
VSPH95-210 6209510210	210	90	8,70
VSPH95-300 6209510300	300	60	11,50



120 mm² version

For 120 mm² the connection is made with ferrule technique. Standard connection M10.

120 mm² — 4 variants

ORDER CODE	LENGTH (MM)	PACK	€
VHPH120-095	95	100	ask
VHPH120-110	110	100	ask
VHPH120-165	165	50	ask
VHPH120-340	340	30	ask

Other versions on request

Other lengths

VSPH25-1000 = Cell connector Perfect 25 mm² / 1000 mm

Integrated fuse, 200–500 A (max. 70 mm²)

VSPH35-350F3A = Cell connector Perfect 35 mm² / 350 mm with 300 A fuse

For these versions, please contact us.

Other sections: 10 / 16 mm²

VSPH16-250 = Cell connector Perfect 16 mm² / 250 mm

UL94 V0 flammability rating available

V0: burning stops within 10 s on a vertical specimen; non-flaming drips allowed.

05

Rigid overmolded connectors

Solid copper bar connectors with overmolded insulation and M10 terminals, for fixed cell spacing.



CONNECTION	BAR	LENGTHS	CODE FAMILY
M10 (M6 / M8 on request)	30 × 3 / 30 × 5 / 30 × 10 mm	60 – 195 mm	SV

Click any order code to open it in our webshop: **mkcontrols.eu**

30×3 mm — 90 mm² · 14 variants

ORDER CODE	LENGTH (MM)	€
SV30x3-60-M10 56030060	60	ask
SV30x3-80-M10 56030080	80	ask
SV30x3-82-M10 56030082	82	ask
SV30x3-85-M10 56030085	85	ask
SV30x3-92-M10 56030092	92	ask
SV30x3-115-M10 56030115	115	ask
SV30x3-123-M10 56030123	123	ask
SV30x3-125-M10 56030125	125	ask
SV30x3-135-M10 56030135	135	ask
SV30x3-143-M10 56030143	143	ask
SV30x3-155-M10 56030155	155	ask
SV30x3-163-M10 56030163	163	ask
SV30x3-175-M10 56030175	175	ask
SV30x3-178-M10 56030178	178	ask

30×5 mm — 150 mm² · 8 variants

ORDER CODE	LENGTH (MM)	€
SV30x5-115-M10 56050115	115	ask
SV30x5-125-M10 56050125	125	ask
SV30x5-132-M10 56050132	132	ask
SV30x5-135-M10 56050135	135	ask
SV30x5-155-M10 56050155	155	ask
SV30x5-163-M10 56050163	163	ask
SV30x5-175-M10 56050175	175	ask
SV30x5-195-M10 56050195	195	ask

30×10 mm — 300 mm² · 5 variants

ORDER CODE	LENGTH (MM)	€
SV30x10-115-M10 56100115	115	ask
SV30x10-125-M10 56100125	125	ask
SV30x10-132-M10 56100132	132	ask
SV30x10-135-M10 56100135	135	ask
SV30x10-155-M10	155	ask

Other versions on request

M6 and M8 connections
SV30x3-85-M8 = Rigid connector 30×3, L = 85 mm, M8, without insulation cap

20 mm width, 2 mm thick
SV20x2-61-M10 = Rigid connector 20×2, L = 61 mm, M10, without insulation cap

For these versions, please contact us.

Other lengths
Only on special request

Perfect head, 20 mm width
SVPH20x2-61-M10 = Rigid connector Perfect 20×2, L = 61 mm, M10, without insulation cap

06

Screws & accessories

Terminal screws with testing point, Perfect caps, copper rings, gaskets and tray cable clamps to complete the assembly.



THREAD	COATING	CAPS	CLAMPS
M10 (aux. contact M6)	Standard · -NP uncoated	6 colour options	25 – 120 mm²

Click any order code to open it in our webshop: **mkcontrols.eu**



SCR1016-MM

Screw steel M10×16, with testing point

Uncoated version: add **-NP**

1,20 €



SCR1018-MM

Screw steel M10×18, with testing point

Uncoated version: add **-NP**

0,70 €



SCR1022-MM

Screw steel M10×22, with testing point

Uncoated version: add **-NP**

0,90 €



SCR1025-MM

Screw steel M10×25, with testing point

Uncoated version: add **-NP**

2,10 €



SCR1034-MM

Screw steel M10×34, with testing point

Uncoated version: add **-NP**

3,20 €



SCREWAC

Screw M10×22 with auxiliary contact M6

Uncoated version: add **-NP**

Other dimensions on request.

13,50 €



DBM08M10 · DBM10M10

Double-sided bolt with “Fixcoat”

DBM08M10 — M8 / M10

DBM10M10 — M10 / M10

Uncoated version: add **-NP**

DBM08M10	ask
DBM10M10	ask



SCR121

Screw Hawker Perfect M10×20, DIN 933, V2A

Uncoated version: add **-NP**

1,00 €



VPH-CAP-NEG

Cap Perfect, black, with testing point

Also red, blue, orange, yellow (no warning symbol) or grey (with warning symbol)

Price on request



VPH-CAP-POS

Cap Perfect, black, without testing point

Also red, blue, orange, yellow (no warning symbol) or grey (with warning symbol)

0,50 €



ROND10-15-2.3

Copper ring M10, height 2.3 mm

Price on request



ROND10-F

Copper ring M10, 10.4 × 15 × 5 mm

Price on request



RONDP375

Ring gasket 37 × 10.5 × 2 mm

Price on request



RONDP3753

Ring gasket 37.5 × 15 × 3 mm

Price on request



ROND10-PP-18-2

Adapter ring between “Flex” connector and EnerSys terminal

Price on request



ZGEL25 – ZGEL120

Cable clamps for battery tray

ZGEL25 · ZGEL35 · ZGEL50 · ZGEL70 · ZGEL95 · ZGEL120 (25–120 mm²)

ZGEL25	ask
ZGEL35	ask
ZGEL50	ask
ZGEL70	ask
ZGEL95	ask
ZGEL120	ask

07

Charging cables



Charging leads for female-thread terminals and DIN poles, built to length.

SECTIONS	THREAD	INSULATION	CODE FAMILY
10 – 25 mm²	M6 / M8 / M10	Fully insulated (DIN)	VC · VSI · VTI



Charging cable for female thread

- Cable sections 16 and 25 mm²
- Thread size M6, M8 or M10
- Several lengths available

EXAMPLE
VC16-0500M08
Charging connector 16 mm², M8, L = 500 mm



Charging cable for DIN pole “S-type”

- Cable sections 10 and 16 mm²
- Fully insulated
- Several lengths available

EXAMPLE
VSI16-0500
Charging connector S-type, insulated, 16 mm², L = 500 mm



Charging cable for DIN pole “T-type”

- Cable sections 10 and 16 mm²
- Fully insulated
- Several lengths available

EXAMPLE
VTI16-0500
Charging connector T-type, insulated, 16 mm², L = 500 mm

For full ordering codes and lengths, please contact us.

PRODUCT RANGE

REMA battery connectors

Battery and charger connectors from REMA: the Euro DIN range to DIN 43589, high-current MRC connectors for opportunity charging, motor and twin connectors, genderless SR/SRE/SRX connectors with colour-coded voltages, and explosion-proof connectors for hazardous areas. Complete pre-assembled cables on request.

DIN 43589
Euro DIN standard connectors

50 – 640 A
connector ratings

UL · CE · ATEX
approved ranges

MK-Controls Oy is a REMA distributor. Contact us for prices, stock, lead times and pre-assembled cables.

01



Euro DIN connectors

DIN 80 · DIN 160 · DIN 320 · DIN 640

02



MRC high-current connectors

MRC 80/120 · 160/250 · 320/400

03



FT motor connectors

FT 80

04



JH twin connectors

JH 160 · JH 200

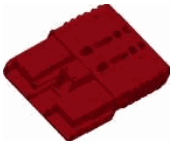
05



SR connectors

SR 50 · SR 175 · SR 350

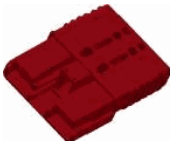
06



SRE connectors

SRE 160 · SRE 320

07



SRX connectors

SRX 175 · SRX 350

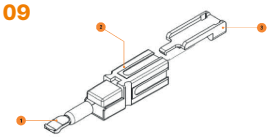
08



Explosion-proof connectors

DR E250 ex

09



Monocon connectors

Monocon 15/30/45 · 75 · 120 · 180

Contents

01 Euro DIN connectors
- → DIN 80
- → DIN 160
- → DIN 320
- → DIN 640
- → RCC
- → Reducing bushings

02 MRC high-current connectors
- → MRC 80/120
- → MRC 160/250
- → MRC 320/400

03 FT motor connectors

04 JH twin connectors

05 SR connectors
- → SR 50
- → SR 175
- → SR 350

06 SRE connectors
- → SRE 160
- → SRE 320

07 SRX connectors
- → SRX 175
- → SRX 350

08 Explosion-proof connectors

09 Monocon connectors
- → Monocon 15/30/45
- → Monocon 75
- → Monocon 120
- → Monocon 180

01

Euro DIN connectors

DIN 80 · DIN 160 · DIN 320 · DIN 640 · RCC · Reducing bushings

Quick-disconnect battery connectors to DIN 43589 for forklifts, aerial lifts, floor cleaners, utility vehicles and chargers. Glass-fibre reinforced, acid-resistant housings and silver-plated E-Cu crimp contacts; coding pins, air adapters, pilot and auxiliary contacts and handles are all interchangeable. The DIN 640 size covers high-current and fast-charging applications.



STANDARD	SIZES	CABLE	APPROVALS
DIN 43589 · EN 1175-1	80 · 160 · 320 · 640 A	6 – 240 mm²	UL 1977 · CE

Prices in EUR excl. VAT. Prices are indicative, per one unit (1 pc), and subject to change. Prices marked “ask”: **request a quote**.

DIN 80



DIN 80 PLUG AND SOCKET – DRAWING © REMA · NUMBERS = POS. IN THE TABLES

DIN 80 · Socket (female)

POS.	ORDER CODE	DESCRIPTION	€
5(2x)/6/7/8/9/10	108913 old 95306-00	**DIN 80 socket · 16 mm² · grey coding · acid resistant**	19,50
5(2x)/6/7/8/9/10	108919 old 95309-00	**DIN 80 socket 25 mm² · grey coding · acid resistant**	20,00
5(2x)/6/7/8/9/10	108922 old 95309-10	**DIN 80 socket 35 mm² · grey coding · acid resistant**	23,50
5/6/7/9	108943 old 95425-01	**DIN 80 housing socket (cable clamp, locking device) · acid resistant**	6,90
8	108691 old 75317-00	DIN 80 main contact 16 mm² for socket (1 pc.)	6,80
8	108693 old 75318-00	DIN 80 main contact 25 mm² for socket (1 pc.)	6,90
8	108695 old 75319-00	DIN 80 main contact 35 mm² for socket (1 pc.)	8,90
10	100072 old 75435-00	DIN 80 coding pin grey (wet)	1,40
10	100075 old 75438-00	DIN 80 coding pin green (dry)	1,40
14	100468 old 75070-42	DIN 80 air adapter socket (6 / 8 mm connection) · light blue	11,50
15	108657 old 75289-00	DIN 80 pilot contact set socket (incl. pilot adapter)	10,50
16	121567 old 75240-02	DIN 80 auxiliary contact for socket (1 pc.)	5,00
5(2x)/6/8/9/10/18	108914 old 95306-01	**DIN 80 socket · 16 mm² · grey coding · fixed handle · acid resistant**	22,50
5(2x)/6/8/9/10/18	108935 old 95342-01	**DIN 80 socket · 25 mm² · grey coding · fixed handle · acid resistant**	21,50
5(2x)/6/8/9/10/18	108920 old 95309-01	**DIN 80 socket 35 mm² · grey coding · fixed handle · acid resistant**	25,50
18	108945 old 95425-05	DIN 80 housing socket (cable clamp, locking device) · fixed handle · acid resistant	8,70
	108715 old 75425-01	DIN 80 housing socket (cable clamp, locking device) · black	ask

POS.		ORDER CODE	DESCRIPTION	€
		108717 old 75425-05	DIN 80 housing socket (cable clamp, locking device) · fixed handle · black	ask

DIN 80 · Plug (male)

POS.		ORDER CODE	DESCRIPTION	€
1/2/3/4/5(2x)/6		111077 old 95198-10	**DIN 80 plug · 10 mm² · grey coding · acid resistant**	ask
1/2/3/4/5(2x)/6		108891 old 95198-00	**DIN 80 plug · 16 mm² · grey coding · acid resistant**	16,00
1/2/3/4/5(2x)/6		108894 old 95199-00	**DIN 80 plug · 25 mm² · grey coding · acid resistant**	15,50
1/2/3/4/5(2x)/6		108895 old 95199-10	**DIN 80 plug 35 mm² · grey coding · acid resistant**	25,00
1/3/5(2x)/6		108948 old 95427-01	**DIN 80 housing plug (cable clamp, locking device) · acid resistant**	6,90
2		108685 old 75314-10	DIN 80 main contact 10 mm² for plug (1 pc.)	3,70
2		108681 old 75314-00	DIN 80 main contact 16 mm² for plug (1 pc.)	4,20
2		108687 old 75315-00	DIN 80 main contact 25 mm² for plug (1 pc.)	4,30
2		108689 old 75316-00	DIN 80 main contact 35 mm² for plug (1 pc.)	8,90
4		100072 old 75435-00	DIN 80 coding pin grey (wet)	1,40
4		100075 old 75438-00	DIN 80 coding pin green (dry)	1,40
4		100074 old 75436-00	DIN 80 coding pin yellow (wet/ dry)	1,40
11		100469 old 75070-43	DIN 80 air adapter plug (6 / 8 mm connection) · light blue	11,50
12		108649 old 75243-00	DIN 80 pilot contact set plug (incl. pilot adapter)	6,90
13		121566 old 75070-02	DIN 80/160 auxiliary contact for plug (1 pc.)	4,20
1/2/3/4/5(2x)/6		108892 old 95198-06	**DIN 80 plug · 6 mm² · grey coding · acid resistant**	15,00
		75199-03	REMA DIN 80 male – 35 mm² – red	31,50
		75199-04	REMA DIN 80 male – 25 mm² – red	20,50
		75427-04	Housing REMA DIN 80 male – incl. cable clamp – red	11,00
		95198-04	REMA DIN 80 male – 16 mm² – red	20,00
		108718 old 75427-01	DIN 80 housing plug (cable clamp, locking device) · black	ask

DIN 80 · Accessories

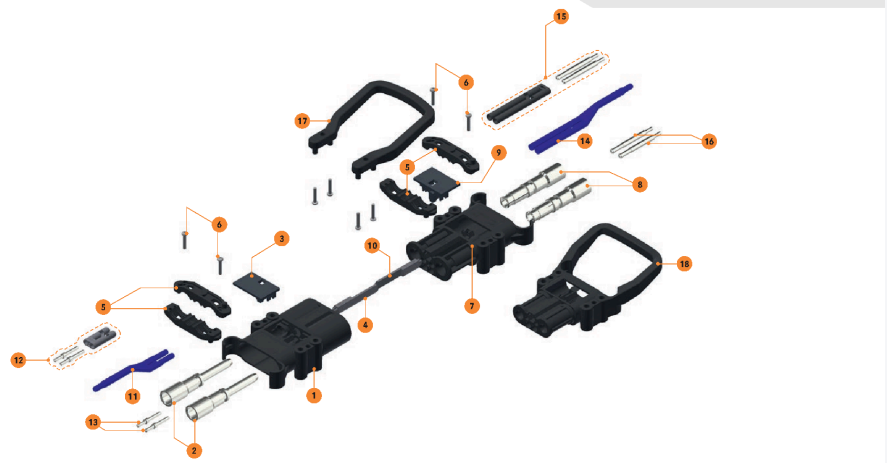
POS.		ORDER CODE	DESCRIPTION	€
		79811-00	Reducing Bushing REMA 16 mm² – 10 mm²	1,40
		79812-00	Reducing Bushing REMA 25 mm² – 10 mm²	1,10

POS.		ORDER CODE	DESCRIPTION	€
		75327-01	Reducing Bushing REMA 35 mm² – 10 mm²	1,50
		95244-01	Handle REMA DIN 80 – with screws M6×30 – grey	4,40
17		100441 old 95244-00	DIN 80 handle grey (clip) · acid resistant	4,10
		100047 old 75229-00	DIN 80 handle red (clip)	5,80
		100205 old 80283-10	DIN 80 holding device black	3,80
		45584324100	Handle Still euro 80	24,50
		75240-02-SD	Auxiliary contact REMA DIN 80 female – Safety Disconnect	19,00
		75289-00-SD	Pilot contacts (2 pcs.+ adapter) REMA DIN 80 female – safety disconnect	19,00
		75306-04	REMA DIN 80 female – 16 mm² with moulded handle – red	24,00
		75309-04	REMA DIN 80 female with screwed handle – 25 mm² – red	24,00
		75310-04	REMA DIN 80 female – 35 mm² – with moulded handle – red	27,50
		108683 old 75314-06	DIN 80 main contact 6 mm² for plug (1 pc.)	3,80
		108716 old 75425-04	DIN 80 housing socket (cable clamp, locking device) · fixed handle · red	10,50
17		108905 old 95239-01	DIN 80 A handle · flat · with 2 screws M6×30 · acid resistant	4,50
		95309-01-AC	REMA DIN 80 female – 35 mm² – with moulded handle, auxiliary contacts	36,50
		110884 old 75198-06	DIN 80 plug · grey coding · 6 mm² · black	ask
		110377 old 75198-10	DIN 80 plug · 10 mm² · grey coding · black	ask
		108626 old 75198-00	DIN 80 plug 16 mm² · grey coding · black	ask
		108630 old 75199-00	DIN 80 plug 25 mm² · grey coding · black	ask
		108632 old 75199-10	DIN 80 plug · 35 mm² · grey coding · black	ask
		108658 old 75306-00	DIN 80 socket · 16 mm² · grey coding · black	ask
		108659 old 75306-01	DIN 80 socket · 16 mm² · grey coding · fixed handle · black	ask
		108668 old 75309-00	DIN 80 socket 25 mm² · grey coding · black	ask
		108708 old 75342-01	DIN 80 socket 25 mm² · grey coding · black · fixed handle	ask
		108671 old 75309-10	DIN 80 socket · 35 mm² · grey coding · black	ask

POS.	ORDER CODE	DESCRIPTION	€
	108669 old 75309-01	DIN 80 socket · 35 mm² · grey coding · fixed handle · black	ask
	100052 old 75244-00	DIN 80 handle black (clip)	ask

POS.	ORDER CODE	DESCRIPTION	€
	100046 old 75228-00	DIN 80 handle red · with screws M 6 × 35	ask
17	108911 old 95239-11	DIN 80 A handle · flat · with 2 screws M6×45 · acid resistant	ask

DIN 160



DIN 160 PLUG AND SOCKET – DRAWING © REMA · NUMBERS = POS. IN THE TABLES

DIN 160 · Socket (female)

POS.	ORDER CODE	DESCRIPTION	€
5(2x)/6/7/8/9/10	108807 old 95001-08	**DIN 160 socket · 16 mm² · grey coding · acid resistant**	27,50
5(2x)/6/7/8/9/10	108813 old 95007-08	**DIN 160 socket 25 mm² · grey coding · acid resistant**	27,50
5(2x)/6/7/8/9/10	108819 old 95012-08	**DIN 160 socket · 35 mm² · grey coding · acid resistant**	20,50
5(2x)/6/7/8/9/10	108831 old 95017-08	**DIN 160 socket · 50 mm² · grey coding · acid resistant**	28,00
5(2x)/6/7/8/9/10	95022-08	**REMA DIN 160 Female – 70 mm²**	40,50
5/6/7/9	108836 old 95026-01	**DIN 160 housing socket (cable clamp, locking device) · acid resistant**	9,80
8	108543 old 75021-01	DIN 160 main contact 16 mm² for socket (1 pc.)	13,50
8	108544 old 75022-01	DIN 160 main contact 25 mm² for socket (1 pc.)	9,50
8	108546 old 75023-01	DIN 160 main contact 35 mm² for socket (1 pc.)	9,50
8	108548 old 75024-01	DIN 160 main contact 50 mm² for socket (1 pc.)	9,60
8	108549 old 75024-05	DIN 160 main contact 70 mm² for socket (1 pc.)	16,50
10	100015 old 75057-01	DIN 160/ 320/640 coding pin grey (wet)	1,40
10	120922 old 75233-01	DIN 160/ 320/640 coding pin green (dry)	1,40
10	100021 old 75057-95	DIN 160/320/640 coding pin blue for socket (Li-Ion)	ask
14	100464 old 75070-12	DIN 160 air adapter socket (6 / 8 mm connection) · light blue	13,00

POS.	ORDER CODE	DESCRIPTION	€
15	108609 old 75068-03	DIN 160 pilot contact set socket (incl. pilot adapter)	10,50
5(2x)/6/8/9/10/18	108806 old 95001-01	**DIN 160 socket · 16 mm² · grey coding · fixed handle · acid resistant**	29,00
5(2x)/6/8/9/10/18	108812 old 95007-01	**DIN 160 socket 25 mm² · grey coding · acid resistant · fixed handle**	29,50
5(2x)/6/8/9/10/18	108818 old 95012-01	**DIN 160 socket · 35 mm² · grey coding · fixed handle · acid resistant**	29,50
5(2x)/6/8/9/10/18	108826 old 95017-01	**DIN 160 socket · 50 mm² · grey coding · fixed handle · acid resistant**	21,50
5(2x)/6/8/9/10/18	108829 old 95017-05	**DIN 160 socket 70 mm² · grey coding · acid resistant · fixed handle**	41,50
18	108837 old 95026-04	DIN 160 housing socket (cable clamp, locking device) · fixed handle · acid resistant	12,00
	108553 old 75026-01	DIN 160 housing socket (cable clamp, locking device) · black	ask
	108554 old 75026-04	DIN 160 housing socket (cable clamp, locking device) · black · fixed handle	ask

DIN 160 · Plug (male)

POS.	ORDER CODE	DESCRIPTION	€
1/2/3/4/5(2x)/6	108845 old 95029-01	**DIN 160 plug · 16 mm² · grey coding · acid resistant**	24,50
1/2/3/4/5(2x)/6	108851 old 95034-01	**DIN 160 plug · 25 mm² · grey coding · acid resistant**	24,00

POS.		ORDER CODE	DESCRIPTION	€
1/2/3/4/ 5(2x)/6		108858 old 95039-01	**DIN 160 plug · 35 mm² · grey coding · acid resistant**	24,50
1/2/3/4/ 5(2x)/6		108865 old 95044-01	**DIN 160 plug · 50 mm² · grey coding · acid resistant**	24,50
1/2/3/4/ 5(2x)/6		108868 old 95044-04	**DIN 160 plug · grey coding · 70 mm² · acid resistant**	38,00
1/3/4/ 5(2x)/6		108873 old 95053-01	**DIN 160 housing plug (cable clamp, locking device) · acid resistant**	9,80
2		108585 old 75048-10	DIN 160 main contact 10 mm² plug (1 pc.)	6,30
2		108583 old 75048-01	DIN 160 main contact 16 mm² plug (1 pc.)	7,40
2		108587 old 75049-01	DIN 160 main contact 25 mm² plug (1 pc.)	7,60
2		108589 old 75050-01	DIN 160 main contact 35 mm² plug (1 pc.)	7,60
2		108591 old 75051-01	DIN 160 main contact 50 mm² for plug (1 pc.)	7,70
2		108592 old 75051-05	DIN 160 main contact 70 mm² for plug (1 pc.)	14,00
4		100015 old 75057-01	DIN 160/ 320/640 coding pin grey (wet)	1,40
4		120922 old 75233-01	DIN 160/ 320/640 coding pin green (dry)	1,40
4		100020 old 75057-90	DIN 160/320/640 coding pin blue for plug (Li-Ion)	2,20
4		120921 old 75231-01	DIN 160/ 320/640 coding pin yellow (wet/ dry)	1,40
11		100465 old 75070-13	DIN 160 air adapter plug (6 / 8 mm connection) · light blue	13,50
12		108610 old 75070-03	DIN 160 pilot contact set plug (incl. pilot adapter)	7,30
13		121566 old 75070-02	DIN 80/160 auxiliary contact for plug (1 pc.)	4,20
1/2/3/4/ 5(2x)/6		108846 old 95029-10	**DIN 160 plug · 10 mm² · grey coding · acid resistant**	25,50
		108594 old 75053-01	DIN 160 housing plug (cable clamp, locking device) · black	ask

DIN 160 · Accessories

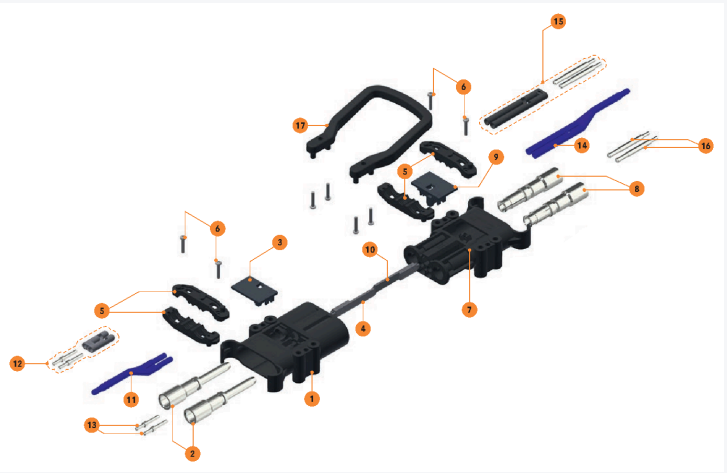
POS.		ORDER CODE	DESCRIPTION	€
		79811-00	Reducing Bushing REMA 16 mm² – 10 mm²	1,40
		79812-00	Reducing Bushing REMA 25 mm² – 10 mm²	1,10
		75327-01	Reducing Bushing REMA 35 mm² – 10 mm²	1,50
17		108879 old 95066-65	DIN 160 handle grey · bended · with 4 screws · acid resistant	5,00
17		108881 old 95066-68	DIN 160/ 320 handle grey · bended · with 8 screws for DIN 160/ 320 · acid resistant	5,10
		108601 old 75066-66	DIN 160 handle red · bended · with 4 screws	ask

POS.		ORDER CODE	DESCRIPTION	€
17		108910 old 95239-07	DIN 160 handle · flat · with 2 screws + lock. nut · acid resistant	5,20
		100206 old 80283-11	DIN 160 holding device black	4,10
		108042	Air adapter REMA DIN 160 female – short version	15,50
		115724 old 77640-00	DIN 160 A aux cont. for socket	7,30
		45624324100	Handle Still DIN 160	38,50
		108604 old 75066-69	DIN 160/ 320 handle red · bended · with 8 screws for DIN 160/ 320	5,10
		75068-03-SD	REMA DIN 160 pilot contacts (2 pieces) for female connector – including pilot contact adapter and safety disconnect	19,00
14		108037 old 75079-12	DIN 160 A air adapter socket (6 / 9 mm connection) · light blue	13,00
11		100473 old 75079-13	DIN 160 air adapter plug (6 / 9 mm connection) · light blue	14,00
		77640-00-SD	Auxiliary contact REMA DIN 160 female – safety disconnect	24,00
		95017-01-AC	REMA DIN 160 female – 50 mm² – with moulded handle, aux. contacts	48,00
		95030-01	REMA DIN 160 male – 16 mm² – incl. screwed handle	29,50
		95035-01	REMA DIN 160 male – 25 mm² – incl. screwed handle	30,00
		95039-09	REMA DIN 160 male – 35 mm² – incl. green coding pin	24,00
		95040-01	REMA DIN 160 male – 35 mm² – incl. screwed handle	30,00
		95045-01	REMA DIN 160 male – 50 mm² – incl. screwed handle	30,00
		95066-92	Handle DIN 160/320, excl. screws	4,60
		95066-93	Handle REMA DIN 160 – 4 bolts 40 mm + security nuts	4,70
		108556 old 75029-10	DIN 160 plug 10 mm² · grey coding · black	ask
		108555 old 75029-01	DIN 160 plug 16 mm² · grey coding · black	ask
		108561 old 75034-01	DIN 160 plug 25 mm² · grey coding · black	ask
		108569 old 75039-01	DIN 160 plug 35 mm² · grey coding · black	ask
		108577 old 75044-01	DIN 160 plug · 50 mm² · grey coding · black	ask
		108578 old 75044-04	DIN 160 plug · grey coding · 70 mm² · black	ask

POS.	ORDER CODE	DESCRIPTION	€
5(2x)/6/ 7/8/9/10	**108832** old 95017-09	**DIN 160 socket · grey coding · 70 mm² · acid resistant**	ask
	108517 old 75001-08	DIN 160 socket 16 mm² · grey coding · black	ask
	108516 old 75001-01	DIN 160 socket 16 mm² · grey coding · fixed handle · black	ask
	108521 old 75007-08	DIN 160 socket · grey coding · 25 mm² · black	ask
	108520 old 75007-01	DIN 160 socket · grey coding · 25 mm² · black · fixed handle	ask
	108529 old 75012-08	DIN 160 socket 35 mm² · black · grey coding	ask
	108527 old 75012-01	DIN 160 socket 35 mm² · grey coding · fixed handle · black	ask

POS.	ORDER CODE	DESCRIPTION	€
	108538 old 75017-08	DIN 160 socket · 50 mm² · grey coding · black	ask
	108536 old 75017-01	DIN 160 socket · 50 mm² · grey coding · fixed handle · black	ask
16	121568	DIN 160 auxiliary contact socket (1 pc.)	ask
17	108906 old 95239-02	DIN 160 handle · flat · with 2 screws · acid resistant	ask
	108600 old 75066-65	DIN 160 handle black · bended · with 4 screws	ask
	108647 old 75239-02	DIN 160 handle flat black · with 2 screws	ask
	108599 old 75066-63	DIN 160/ 320 handle black · bended · with 8 screws for DIN 160/ 320	ask

DIN 320



DIN 320 PLUG AND SOCKET – DRAWING © REMA · NUMBERS = POS. IN THE TABLES

DIN 320 · Socket (female)

POS.	ORDER CODE	DESCRIPTION	€
5(2x)/6/ 7/8/9/10	**108972** old 95601-01	**DIN 320 socket 50 mm² · grey coding · acid resistant**	26,50
5(2x)/6/ 7/8/9/10	**108975** old 95605-01	**DIN 320 socket 70 mm² · grey coding · acid resistant**	37,00
5(2x)/6/ 7/8/9/10	**108979** old 95610-01	**DIN 320 socket · grey coding · 95 mm² · acid resistant**	81,50
5/6/7/9	**108988** old 95700-01	**DIN 320 housing socket (cable clamp, locking device) · acid resistant**	12,00
8	108772 old 75660-01	DIN 320 main contact 50 mm² for socket (1 pc.)	13,50
8	108775 old 75665-01	DIN 320 main contact 70 mm² for socket (1 pc.)	13,50
8	120444 old 75670-01	DIN 320 main contact 95 mm² for socket (1 pc.)	26,50
10	100015 old 75057-01	DIN 160/ 320/640 coding pin grey (wet)	1,40
10	120922 old 75233-01	DIN 160/ 320/640 coding pin green (dry)	1,40

POS.	ORDER CODE	DESCRIPTION	€
10	100021 old 75057-95	DIN 160/320/640 coding pin blue for socket (Li-Ion)	ask
14	100466 old 75070-32	DIN 320 air adapter socket (6 / 8 mm connection) · light blue	13,00
15	108749 old 75591-00	DIN 320/640 pilot contact set socket (incl. pilot adapter)	10,50
16	75590-02	Auxiliary Contact REMA DIN 320/640 Female	5,00
	108989 old 95700-37	DIN 320 housing socket (cable clamp, locking device) · fixed handle · acid resistant	ask
	108782 old 75700-01	DIN 320 housing socket (cable clamp, locking device) · black	ask

DIN 320 · Plug (male)

POS.	ORDER CODE	DESCRIPTION	€
1/2/3/4/ 5(2x)/6	**108952** old 95500-01	**DIN 320 plug · 50 mm² · grey coding · acid resistant**	32,50
1/2/3/4/ 5(2x)/6	**108957** old 95505-01	**DIN 320 plug 70 mm² · grey coding · acid resistant**	32,50

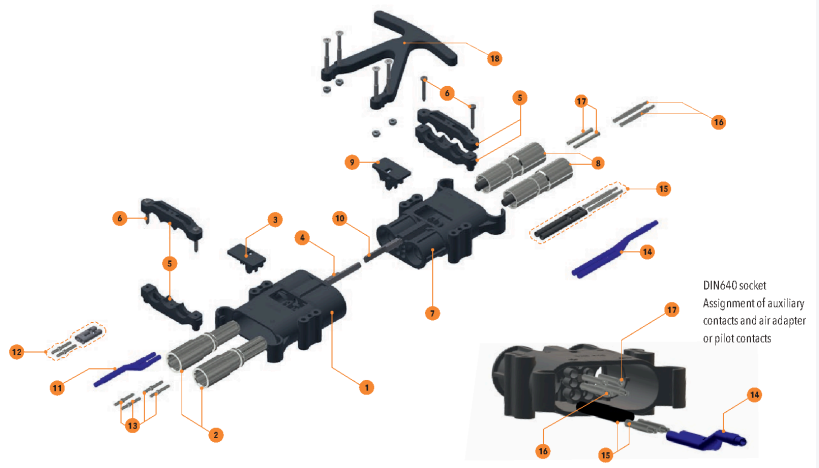
POS.		ORDER CODE	DESCRIPTION	€
1/2/3/4/ 5(2x)/6		108960 old 95510-01	**DIN 320 plug · grey coding · 95 mm² · acid resistant**	66,50
1/3/ 5(2x)/6		108969 old 95600-01	**DIN 320 housing plug (cable clamp, locking device) · acid resistant**	12,00
2		108739 old 75560-01	DIN 320 main contact 50 mm² for plug (1 pc.)	10,50
2		108743 old 75565-01	DIN 320 main contact 70 mm² for plug (1 pc.)	11,00
2		111105 old 75570-01	DIN 320 main contact 95 mm² for plug (1 pc.)	30,00
4		100015 old 75057-01	DIN 160/ 320/640 coding pin grey (wet)	1,40
4		120922 old 75233-01	DIN 160/ 320/640 coding pin green (dry)	1,40
4		100020 old 75057-90	DIN 160/320/640 coding pin blue for plug (Li-Ion)	2,20
4		120921 old 75231-01	DIN 160/ 320/640 coding pin yellow (wet/ dry)	1,40
11		100467 old 75070-33	DIN 320 air adapter plug (6 / 8 mm connection) · light blue	13,50
12		108751 old 75596-00	DIN 320/640 pilot contact set plug (incl. pilot adapter)	8,60
13		75595-01	Auxiliary Contact REMA DIN 320/640 Male	3,40
		108720 old 75500-01	DIN 320 plug · 50 mm² · grey coding · black	30,50
		108752 old 75600-01	DIN 320 housing plug (cable clamp, locking device) · black	ask

DIN 320 · Accessories

POS.		ORDER CODE	DESCRIPTION	€
		79817-00	Reducing Bushing REMA 50 mm² – 35 mm²	2,10
		79816-00	Reducing Bushing REMA 50 mm² – 25 mm²	1,80
		77605-00	Reducing Bushing REMA 50 mm² – 16 mm²	3,60
17		108880 old 95066-67	DIN 320 handle grey · bended · with 4 screws · acid resistant	5,00
17		108881 old 95066-68	DIN 160/ 320 handle grey · bended · with 8 screws for DIN 160/ 320 · acid resistant	5,10
		108603 old 75066-68	DIN 320 handle red · bended · with 4 screws	ask
		95239-05	Screwed Flat Handle REMA DIN 320 – 2 bolts 50 mm, security nuts	4,80
		100207 old 80283-12	DIN 320 holding device	4,40

POS.	ORDER CODE	DESCRIPTION	€
	75590-55-SD	Auxiliary contact REMA DIN 320/640 female – safety disconnect	19,00
	75591-00-SD	Pilot contacts (2 pcs.+ adapter) REMA DIN 320/640 female – safety disconnect	19,00
	95066-94	Handle REMA DIN 320 – 4 bolts 50 mm + security nuts	4,70
	95066-95	REMA DIN 320 handle – including 4 screws M6 x 40, 4 screws M6 × 50 and 4 locknuts	12,00
	95066-96	Handle REMA DIN 320 – 4 bolts 45mm + security nuts	4,70
	95500-02	REMA DIN 320 male – 50 mm² – incl. screwed handle	37,50
	95505-02	REMA DIN 320 male – 70 mm² – incl. screwed handle	37,50
	95510-02	REMA DIN 320 male – 95 mm² – incl. screwed handle	71,50
	95601-05	REMA DIN 320 female – 50 mm² – incl. screwed handle	42,00
	95605-02	REMA DIN 320 female – 70 mm² – incl. screwed handle	42,50
	95610-05	REMA DIN 320 female – 95 mm² – incl. screwed handle	86,00
	108723 old 75505-01	DIN 320 plug · 70 mm² · grey coding · black	ask
	108725 old 75510-01	DIN 320 plug · grey coding · 95 mm² · black	ask
	108754 old 75601-01	DIN 320 socket 50 mm² · grey coding · black	ask
	108756 old 75605-01	DIN 320 socket · 70 mm² · grey coding · black	ask
	108758 old 75610-01	DIN 320 socket · grey coding · 95 mm² · black	ask
13	121563	DIN 320/640 auxiliary contact plug (1 pc.)	ask
17	108908 old 95239-04	DIN 320 handle · flat · with 2 screws · acid resistant	ask
	108602 old 75066-67	DIN 320 handle black · bended · with 4 screws	ask
	108607 old 75067-00	DIN 320 handle red · flat · with 2 screws · only for DIN 320 A	ask
16	121565	DIN 320 auxiliary contact socket (1 pc.)	ask

DIN 640



DIN 640 PLUG AND SOCKET – DRAWING © REMA · NUMBERS = POS. IN THE TABLES

DIN 640 · Socket (female)

POS.		ORDER CODE	DESCRIPTION	€
5(2x)/6/ 7/8/9/10		**111165** old 95950-30	**DIN 640 socket 70 mm² · grey coding · acid resistant**	214,00
5(2x)/6/ 7/8/9/10		**111164** old 95950-20	**DIN 640 socket · grey coding · 95 mm² · acid resistant**	242,00
5(2x)/6/ 7/8/9/10		**111163** old 95950-10	**DIN 640 socket · grey coding · 120 mm² · acid resistant**	242,00
5(2x)/6/ 7/8/9/10		**108996** old 95950-00	**DIN 640 socket · grey coding · 240 mm² · acid resistant**	242,00
10		100015 old 75057-01	DIN 160/ 320/640 coding pin grey (wet)	1,40
10		120922 old 75233-01	DIN 160/ 320/640 coding pin green (dry)	1,40
10		100021 old 75057-95	DIN 160/320/640 coding pin blue for socket (Li-Ion)	ask
14		100466 old 75070-32	DIN 320 air adapter socket (6 / 8 mm connection) · light blue	13,00
15		108749 old 75591-00	DIN 320/640 pilot contact set socket (incl. pilot adapter)	10,50
16		75590-02	Auxiliary Contact REMA DIN 320/640 Female	5,00
17		M93320-74	Auxiliary Contact REMA MRC 320 Female – 2 pieces	12,00

DIN 640 · Plug (male)

POS.		ORDER CODE	DESCRIPTION	€
1/2/3/4/ 5(2x)/6		**111162** old 95850-30	**DIN 640 plug 70 mm² · grey coding · acid resistant**	288,00
1/2/3/4/ 5(2x)/6		**111161** old 95850-20	**DIN 640 plug · grey coding · 95 mm² · acid resistant**	305,00
1/2/3/4/ 5(2x)/6		**111160** old 95850-10	**DIN 640 plug · grey coding · 120 mm² · acid resistant**	315,00
1/2/3/4/ 5(2x)/6		**108995** old 95850-00	**DIN 640 plug · grey coding · 240 mm² · acid resistant**	288,00
4		100015 old 75057-01	DIN 160/ 320/640 coding pin grey (wet)	1,40
4		120922 old 75233-01	DIN 160/ 320/640 coding pin green (dry)	1,40
4		100020 old 75057-90	DIN 160/320/640 coding pin blue for plug (Li-Ion)	2,20
4		120921 old 75231-01	DIN 160/ 320/640 coding pin yellow (wet/ dry)	1,40
11		100467 old 75070-33	DIN 320 air adapter plug (6 / 8 mm connection) · light blue	13,50
12		108751 old 75596-00	DIN 320/640 pilot contact set plug (incl. pilot adapter)	8,60
13		75595-01	Auxiliary Contact REMA DIN 320/640 Male	3,40

DIN 640 · Accessories				
POS.		ORDER CODE	DESCRIPTION	€
18		108994 old 95800-11	DIN 640 A handle · with 4 screws · acid resistant	13,50
		TOY-640-SCR	screws	ask
1/2/3/4/ (5(2x)/6		113901	**REMA DIN 640 male – 4/0 AWG – incl. grey coding pin**	458,00
5(2x)/6/ 7/8/9/10		113902	**REMA DIN 640 female – 4/0 AWG – incl. grey coding pin**	329,00
		75802-40	Main contact REMA DIN 640 male – 240 mm²	85,00
		95850-30-AC	REMA DIN 640 male – 70 mm² – incl. grey coding pin – with Auxiliary contacs	328,00

RCC

RCC connectors		
ORDER CODE	DESCRIPTION	€
112033	Housing REMA RCC 320 female – incl. cable clamp	26,00
112034	Housing REMA RCC 320 male – incl. cable clamp	26,50
112035	REMA RCC 320 female – 70 mm²	55,50
110255 old 95983-00	RCC 80 plug housing with yellow coding pin · light grey	9,30
110256 old 95983-02	RCC 80 plug · grey coding · 25 mm² · light grey	17,50
110257 old 95983-50	RCC 80 socket housing · grey + green coding · light grey	10,50
110258 old 95983-52	RCC 80 socket · grey coding · 25 mm² · light grey	23,00

ORDER CODE	DESCRIPTION	€
110259 old 95984-00	RCC 160 plug housing · yellow coding · light grey	13,50
110260 old 95984-05	RCC 160 plug 50 mm² · grey coding · light grey	27,50
110261 old 95984-50	RCC 160 socket housing · grey + green coding · light grey	16,00
95984-52	REMA RCC 160 female – 25 mm²	45,50
95984-53	RCC 160 A – 35 mm² – Socket	33,50
110262 old 95984-55	RCC 160 socket 50 mm² · grey coding · light grey	33,50
123074	RCC 160 plug housing · without coding pin · light grey	ask
123075	RCC 320 plug housing · without coding pin · light grey	ask

Reducing bushings

Reducing bushings (all DIN sizes)			
	ORDER CODE	DESCRIPTION	€
	79811-00	Reducing Bushing REMA 16 mm² – 10 mm²	1,40
	79812-00	Reducing Bushing REMA 25 mm² – 10 mm²	1,10
	75327-01	Reducing Bushing REMA 35 mm² – 10 mm²	1,50
	79817-00	Reducing Bushing REMA 50 mm² – 35 mm²	2,10
	79816-00	Reducing Bushing REMA 50 mm² – 25 mm²	1,80
	77605-00	Reducing Bushing REMA 50 mm² – 16 mm²	3,60
	76935-00	Reducing bushing 35 mm² – 16 mm²	ask

	ORDER CODE	DESCRIPTION	€
	76925-00	Reducing bushing 35 mm² – 25 mm²	2,70
	78326-00	Reducing bush REMA 12 mm² – 8 mm²	2,40
	79810-00	Reducing bushing REMA 16 mm² – 6 mm²	1,20
	79813-00	Reducing bushing REMA 25 mm² – 16 mm²	1,40
	79830-00	Reducing bush REMA AWG6 – AWG10 (13,3-5,3 mm²)	0,90
	79832-00	Reducing bush REMA AWG4 (21,2 mm²) – AWG8 (8,4 mm²)	2,40
	79833-00	Reducing bush REMA AWG4 (21,2 mm²) – AWG6 (13,3 mm²)	2,40
	79834-00	Reducing bush REMA AWG2 (33,3 mm²) – AWG6 (13,3 mm²)	2,40

ORDER CODE	DESCRIPTION	€
79836-00	Reducing bush REMA AWG1/0 (53,5 mm²) – AWG4 (21,2 mm²)	2,50
79837-00	Reducing bushing REMA AWG1/0 – AWG2 (53,5-33,6 mm²)	2,50
79840-00	Reducing bush REMA AWG6 (13,3 mm²) – 6 mm²	0,90
79844-00	Reducing bushing REMA AWG2 (33,6 mm²) – 16 mm²	2,20

ORDER CODE	DESCRIPTION	€
79846-00	Reducing bush REMA AWG1/0 (53,5 mm²) – 25 mm²	7,50
79847-00	Reducing bush REMA AWG1/0 (53,5 mm²) – 35 mm²	7,10
79998-00	Reducing bushing 70 mm² – 35 mm²	2,40
79999-00	Reducing bushing REMA 70 mm² – 50 mm²	1,70

02

MRC high-current connectors

MRC 80/120 · MRC 160/250 · MRC 320/400

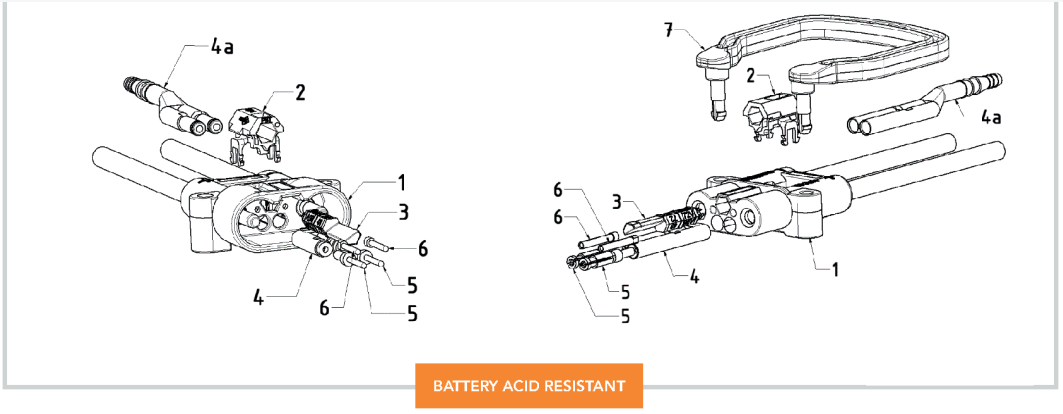
Patented high-power connectors for quick and opportunity charging of large batteries. A gas-tight connection between cable and housing gives a higher current rating than standard DIN connectors. Supplied as pre-assembled cables; housings mate with DIN 80, 160 and 320, and all DIN coding pins, pilot and auxiliary contacts fit.



STANDARD	CABLE	MATES WITH	SUPPLY
DIN VDE 0623-589 · EN 1175	16 – 95 mm²	DIN 80 / 160 / 320	Pre-assembled cables

Prices in EUR excl. VAT. Prices are indicative, per one unit (1 pc), and subject to change. Prices marked "ask": **request a quote**.

MRC 80/120



BATTERY ACID RESISTANT

MRC 80/120 PLUG AND SOCKET – DRAWING © REMA · NUMBERS = POS. IN THE TABLES

MRC 80/120 · Socket (female)

POS.	ORDER CODE	DESCRIPTION	€
2	M93080-48	Coding Pin Support for REMA MRC 80 Female	1,80
2	M93080-53	Coding Pin Support for REMA MRC 120 Female	4,00
3	100072 old 75435-00	DIN 80 coding pin grey (wet)	1,40
3	100075 old 75438-00	DIN 80 coding pin green (dry)	1,40
3	M75057-65	MRC 120 Coding Pin Female – red	ask
4/5	108657 old 75289-00	**DIN 80 pilot contact set socket (incl. pilot adapter)**	10,50
4a	100468 old 75070-42	DIN 80 air adapter socket (6 / 8 mm connection) · light blue	11,50
6	M93080-74	Auxiliary Contact REMA MRC 80 Female – 2 pieces	12,00
2	110116	MRC 80 – Locking part current rating I (80A) – socket	ask
2	111341	MRC 80 – Locking part current rating II (120A) – socket	ask
3	111344	MRC 80 – High power coding pin red (wet) – socket	ask
3	114345	MRC 80 – High power coding pin blue (dry) – socket	ask
4	100035	MRC 80 – Adapter for pilot contacts – socket	ask
5	111104	MRC 80 – Pilot contact 2,5 mm² – socket	ask
6	120744	MRC 80 – Auxiliary contact 1,5 mm² – socket	ask
7	102586	MRC 80 – Handle incl. screws (set) – socket	ask

MRC 80/120 · Plug (male)

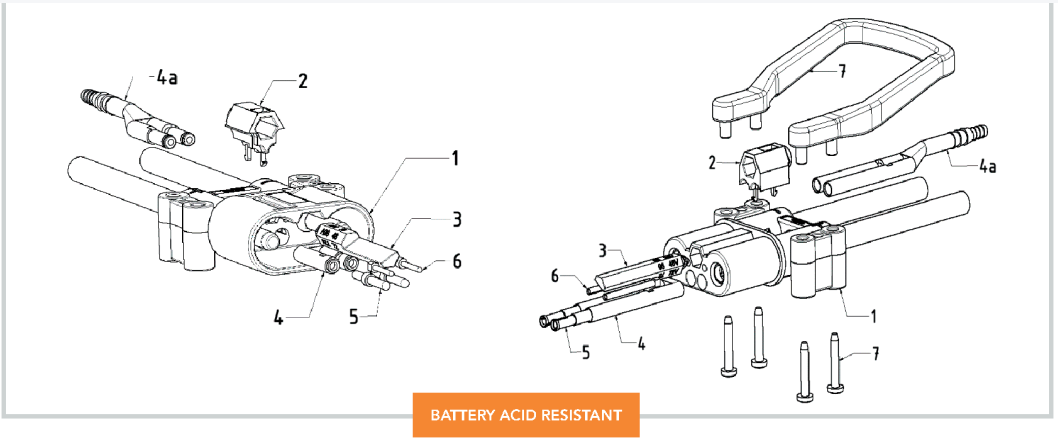
POS.	ORDER CODE	DESCRIPTION	€
2	M93080-04	Coding Pin Support for REMA MRC 80 Male	ask

POS.		ORDER CODE	DESCRIPTION	€
2		M93080-05	Coding Pin Support for REMA MRC 120 Male	ask
3		100072 old 75435-00	DIN 80 coding pin grey (wet)	1,40
3		100075 old 75438-00	DIN 80 coding pin green (dry)	1,40
3		100074 old 75436-00	DIN 80 coding pin yellow (wet/ dry)	1,40
3		M75057-60	MRC 120 Coding Pin – Male – red	ask
4/5		108649 old 75243-00	**DIN 80 pilot contact set plug (incl. pilot adapter)**	6,90
4a		100469 old 75070-43	DIN 80 air adapter plug (6 / 8 mm connection) · light blue	11,50
6		M93080-44	Auxiliary Contact REMA MRC 80 Male – 2 pieces	14,00
2		110108	MRC 80 – Locking part current rating I (80A) – plug	ask
2		111340	MRC 80 – Locking part current rating II (120A) – plug	ask
3		111343	MRC 80 – High power coding pin red (wet) – plug	ask
3		114346	MRC 80 – High power coding pin blue (dry) – plug	ask
4		100036	MRC 80 – Adapter for pilot contacts – plug	ask
5		102664	MRC 80 – Pilot contact 2,5 mm² – plug	ask
6		120743	MRC 80 – Auxiliary contact 1,5 mm² – plug	ask
7		100528	MRC 80 – Handle to screw – plug	ask
7		109055	MRC 80 – Handle incl. screws (set) – plug	ask

MRC 80/120 · Accessories

POS.		ORDER CODE	DESCRIPTION	€
17		100441 old 95244-00	DIN 80 handle grey (clip) · acid resistant	4,10
		95244-01	Handle REMA DIN 80 – with screws M6×30 – grey	4,40
		M93080-73	Pilot contact REMA MRC 80 receptacle – 2 pieces	12,00
		M93080-76	Air adapter REMA MRC 80 receptacle – 2 pieces	14,50
		M93080-80	Air adapter REMA MRC 80 plug – 2 pieces	14,50

MRC 160/250



MRC 160/250 PLUG AND SOCKET – DRAWING © REMA · NUMBERS = POS. IN THE TABLES

MRC 160/250 · Socket (female)

POS.		ORDER CODE	DESCRIPTION	€
2		M93160-48	Coding Pin Support for REMA MRC 160 Female	1,80
2		M93160-53	Coding Pin Support for REMA MRC 250 Female	3,00
3		100015 old 75057-01	DIN 160/ 320/640 coding pin grey (wet)	1,40
3		120922 old 75233-01	DIN 160/ 320/640 coding pin green (dry)	1,40
3		M75057-75	MRC250 Coding Pin – Female – red	8,30
3		104594	MRC250 Coding Pin – Female – blue	9,90
4/5		108609 old 75068-03	**DIN 160 pilot contact set socket (incl. pilot adapter)**	10,50
4a		100464 old 75070-12	DIN 160 air adapter socket (6 / 8 mm connection) · light blue	13,00
6		M93160-74	Auxiliary Contact REMA MRC 160 Female – 2 pieces	12,00
2		110138	MRC 160 – Locking part current rating I (160A) – socket	ask

POS.	ORDER CODE	DESCRIPTION	€
2	110141	MRC 160 – Locking part current rating II (250A) – socket	ask
3	109630	MRC 160 – High power coding pin red (wet) – socket	ask
4	100029	MRC 160 – Adapter for pilot contacts – socket	ask
5	108608	MRC 160 – Pilot contact 2,5 mm² – socket	ask
6	120746	MRC 160 – Auxiliary contact 1,5 mm² – socket	ask

MRC 160/250 · Plug (male)

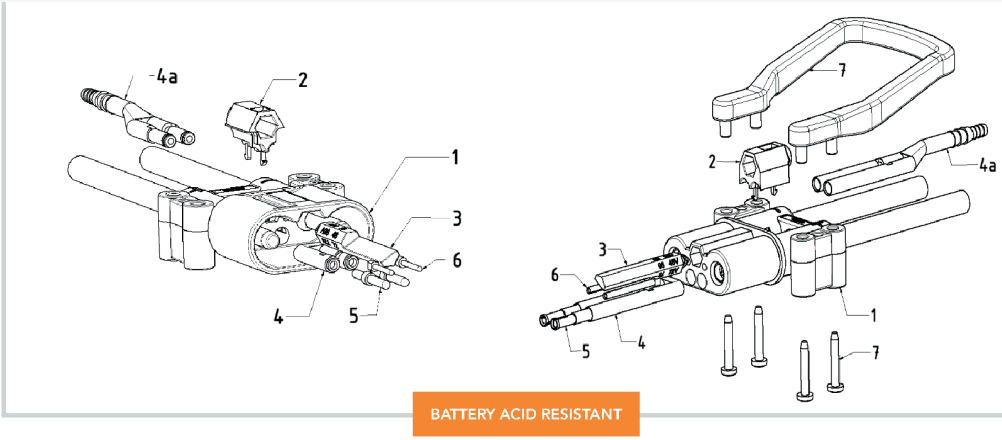
POS.		ORDER CODE	DESCRIPTION	€
2		M93160-04	Coding Pin Support for REMA MRC 160 Male	1,80
2		M93160-05	Coding Pin Support for REMA MRC 250 Male	4,20
3		100015 old 75057-01	DIN 160/ 320/640 coding pin grey (wet)	1,40
3		120922 old 75233-01	DIN 160/ 320/640 coding pin green (dry)	1,40
3		120921 old 75231-01	DIN 160/ 320/640 coding pin yellow (wet/ dry)	1,40
3		M75057-70	MRC250 Coding Pin – Male – red	9,90
3		104593	MRC250 Coding pin – Male – blue	9,90
4		M93160-44	Auxiliary Contact REMA MRC 160 Male – 2 pieces	8,30
4a		100465 old 75070-13	DIN 160 air adapter plug (6 / 8 mm connection) · light blue	13,50
5		108610 old 75070-03	DIN 160 pilot contact set plug (incl. pilot adapter)	7,30

POS.	ORDER CODE	DESCRIPTION	€
2	110131	MRC 160 – Locking part current rating I (160A) – plug	ask
2	110132	MRC 160 – Locking part current rating II (250A) – plug	ask
3	100049	MRC 160 – Coding pin green (dry) – plug	ask
3	100048	MRC 160 – Coding pin yellow (wet + dry)	ask
3	109629	MRC 160 – High power coding pin red (wet) – plug	ask
4	100030	MRC 160 – Adapter for pilot contacts – plug	ask
5	102640	MRC 160 – Pilot contact 2,5 mm² – plug	ask
6	120745	MRC 160 – Auxiliary contact 1,5 mm² – plug	ask

MRC 160/250 · Accessories

POS.		ORDER CODE	DESCRIPTION	€
17		108879 old 95066-65	DIN 160 handle grey · bended · with 4 screws · acid resistant	5,00
		M93160-21	Auxiliary contact REMA MRC 160 plug	5,40
		M93160-43	Pilot contact REMA MRC 160 plug – 2 pieces	10,50
		M93160-73	Pilot contact REMA MRC 160 receptacle – 2 pieces	12,50
		M93160-76	Air adapter REMA MRC 160 receptacle – 2 pieces	16,00
		M93160-80	Air adapter REMA MRC 160 plug – 2 pieces	16,50

MRC 320/400



MRC 320/400 PLUG AND SOCKET – DRAWING © REMA · NUMBERS = POS. IN THE TABLES

MRC 320/400 · Socket (female)

POS.	ORDER CODE	DESCRIPTION	€
2	M93320-48	Coding Pin Support for REMA MRC 320 Female	1,80
2	M93320-53	Coding Pin Support for REMA MRC 400 Female	4,00

3		100015 old 75057-01	DIN 160/ 320/640 coding pin grey (wet)	1,40
3		120922 old 75233-01	DIN 160/ 320/640 coding pin green (dry)	1,40
3		M75057-85	MRC400 Coding Pin Female – red	9,90
3		111376	MRC400 Coding Pin Female – blue	11,50
4/5		108749 old 75591-00	**DIN 320/640 pilot contact set socket (incl. pilot adapter)**	10,50
4a		100466 old 75070-32	DIN 320 air adapter socket (6 / 8 mm connection) · light blue	13,00
6		M93320-74	Auxiliary Contact REMA MRC 320 Female – 2 pieces	12,00
2		110162	MRC 320 – Locking part current rating I (320A) – socket	ask
2		110165	MRC 320 – Locking part current rating II (400A) – socket	ask
3		109632	MRC 320 – High power coding pin red (wet) – socket	ask
4		100033	MRC 320 – Adapter for pilot contacts – socket	ask
5		108747	MRC 320 – Pilot contact 2,5 mm² – socket	ask
6		120748	MRC 320 – Auxiliary contact 1,5 mm² – socket	ask

MRC 320/400 · Plug (male)

POS.		ORDER CODE	DESCRIPTION	€
2		M93320-04	Coding Pin Support for REMA MRC 320 Male	1,80
2		M93320-05	Coding Pin Support for REMA MRC 400 Male	4,00
3		100015 old 75057-01	DIN 160/ 320/640 coding pin grey (wet)	1,40
3		120922 old 75233-01	DIN 160/ 320/640 coding pin green (dry)	1,40
3		120921 old 75231-01	DIN 160/ 320/640 coding pin yellow (wet/ dry)	1,40

POS.	ORDER CODE	DESCRIPTION	€
3	M75057-80	MRC400 Coding Pin Male – red	9,90
3	111375	MRC400 Coding Pin Male – blue	9,90
4/5	108751 old 75596-00	**DIN 320/640 pilot contact set plug (incl. pilot adapter)**	8,60
4a	100467 old 75070-33	DIN 320 air adapter plug (6 / 8 mm connection) · light blue	13,50
6	M93320-44	Auxiliary contact REMA MRC 320 plug – 2 pieces	10,50
2	110156	MRC 320 – Locking part current rating I (320A) – plug	ask
2	110157	MRC 320 – Locking part current rating II (400A) – plug	ask
3	109631	MRC 320 – High power coding pin red (wet) – plug	ask
4	100034	MRC 320 – Adapter for pilot contacts – plug	ask
5	102691	MRC 320 – Pilot contact 2,5 mm² – plug	ask
6	120747	MRC 320 – Auxiliary contact 1,5 mm² – plug	ask

MRC 320/400 · Accessories

POS.		ORDER CODE	DESCRIPTION	€
17		108880 old 95066-67	DIN 320 handle grey · bended · with 4 screws · acid resistant	5,00
		M93320-43	Pilot contact REMA MRC 320 plug – 2 pieces	10,50
		M93320-73	Pilot contact REMA MRC 320 receptacle – 2 pieces	12,00
		M93320-76	Air adapter REMA MRC 320 receptacle – 2 pieces	16,50
		M93320-80	Air adapter REMA MRC 320 plug – 2 pieces	17,50

03

FT motor connectors

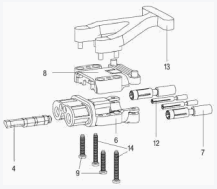
FT 80

Compact motor connectors with low losses for golf carts, personnel carriers, floor-cleaning machines, boats and leisure vehicles. Crimp contacts in E-Cu copper.

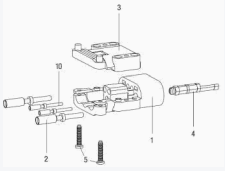


RATING	CABLE	STANDARD	CONTACTS
80 A	16 – 25 mm²	EN 1175-1	Crimp, E-Cu

Prices in EUR excl. VAT. Prices are indicative, per one unit (1 pc), and subject to change. Prices marked “ask”: **request a quote**.



SOCKET (FEMALE) · NUMBERS = POS. IN THE TABLES



PLUG (MALE) · NUMBERS = POS. IN THE TABLES

FT 80 · Socket (female)

POS.	ORDER CODE	DESCRIPTION	€
4/6/7/8/9/14	109102 old 81200-00	**FT 80 socket · 16 mm²**	ask
4/6/7/8/9/14	109103 old 81201-00	**FT 80 socket · 25 mm² · red coding · black**	ask
4/6/7/8/9/13/14	81205-00	**FT 80 Female – 16 mm² – incl. Handle**	ask
4/6/7/8/9/13/14	81206-00	**FT 80 Female – 25 mm² – incl. Handle**	ask
4	100210 old 81236-00	FT 80 coding pin red	ask
7	109117 old 81232-00	FT 80 contact 16 mm² for socket (1 pc.)	ask
7	109120 old 81234-00	FT 80 contact 25 mm² for socket (1 pc.)	ask
12	103149 old 81243-00	Pilot contact for FT 80 socket (1 pc.)	ask
13	109124 old 81235-00	FT 80 handle red	ask

FT 80 · Plug (male)

POS.	ORDER CODE	DESCRIPTION	€
1/2/3/4/5	109111 old 81220-00	**FT 80 plug · 16 mm²**	ask
1/2/3/4/5	109112 old 81221-00	**FT 80 plug · 25 mm² · red coding · black**	ask
2	109126 old 81242-00	FT 80 contact 16 mm² for plug (1 pc.)	ask
2	109129 old 81244-00	FT 80 contact 25 mm² for plug (1 pc.)	ask
4	100210 old 81236-00	FT 80 coding pin red	ask
10	103150 old 81245-00	Pilot contact for FT 80 plug (1 pc.)	ask

04

JH twin connectors

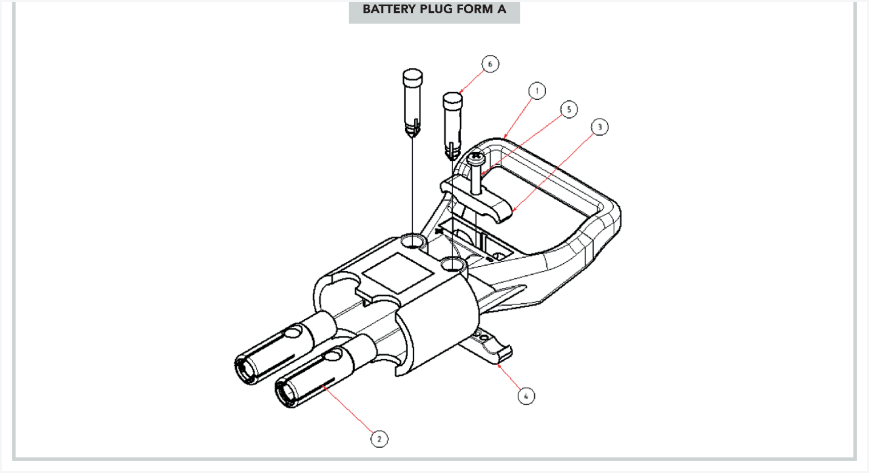
JH 160 · JH 200

Proven two-pole connectors for trailer-to-tractor and battery connections on road trucks. Spring-loaded pins slide into sleeves for very low contact resistance; robust, humidity-, acid- and UV-resistant.



SIZES	CABLE	TYPES	USE
160 · 200 A	35 · 50 mm²	A – G	Battery · truck · charger

Prices in EUR excl. VAT. Prices are indicative, per one unit (1 pc), and subject to change. Prices marked "ask": **request a quote**.



BATTERY PLUG FORM A – DRAWING © REMA · NUMBERS = POS. IN THE TABLES

JH · Twin connectors

POS.		ORDER CODE	DESCRIPTION	€
		**107301** old 76250-00	Battery plug compl. 35 mm² · type A · black	ask
		**107302** old 76251-00	Battery plug compl. 50 mm² · type A · black	81,00
		**107305** old 76350-00	Vehicle socket compl. 35 mm² · type B · black	ask
		**107306** old 76351-00	2pole vehicle socket compl. 50 mm² · type B · black	ask
		**107307** old 76460-00	2pole charger socket compl. 35 mm² · type C · black	ask
		**107308** old 76470-00	2pole charger socket compl.50 mm² · type C · black	ask
		**107332** old 77350-00	Vehicle plug compl. 35 mm² · type D · black	ask
		**107333** old 77351-00	2pole vehicle plug compl. 50 mm² · type D · black	ask
		**107334** old 77360-00	2pole vehicle plug compl. 35 mm² · type E · black	ask
		**107335** old 77361-00	2pole vehicle plug compl. 50 mm² · type E · black	ask
		**107337** old 77460-00	2pole charger plug compl. 35 mm² · type F	ask
		**107338** old 77461-00	2pole charger plug compl. 50 mm² · type F · black	ask
		**107330** old 77250-00	2pole battery socket compl. 35 mm² · type G · black	ask
		**107331** old 77251-00	2pole battery socket compl. 50 mm² type G · black	ask
1		**100090**	JH 160/200 – Housing plug form A	ask
1		**100097**	JH 160/200 – Housing socket form B	ask
1		**100102**	JH 160/200 – Housing socket form C	ask

JH · Accessories

POS.		ORDER CODE	DESCRIPTION	€
		**76935-00**	Reducing bushing 35 mm² – 16 mm²	ask
		**76925-00**	Reducing bushing 35 mm² – 25 mm²	2,70
2		**107316** old 76765-00	Contact male 160/200 A · 35 mm²	ask
2		**107317** old 76766-00	Contact male 160/200 A · 50 mm²	ask
2		**107322** old 76915-00	Contact female 160/200 A · 35 mm²	ask
2		**107325** old 76916-00	Contact female 160/200 A · 50 mm²	ask
		**107318** old 76850-00	Cable clamp for 2pole connectors · black	ask
3		**100107** old 76947-00	Retaining pin · 33,5 mm	ask
6		**100106** old 76946-00	Retaining pin · 30,5 mm	ask
3		**100110**	JH 160/200 – Cable clamp UP	ask
4		**107339**	JH 160/200 – Cable clamp LP	ask
5		**102656**	JH 160/200 – Screw	ask

05

SR connectors

SR 50 · SR 175 · SR 350

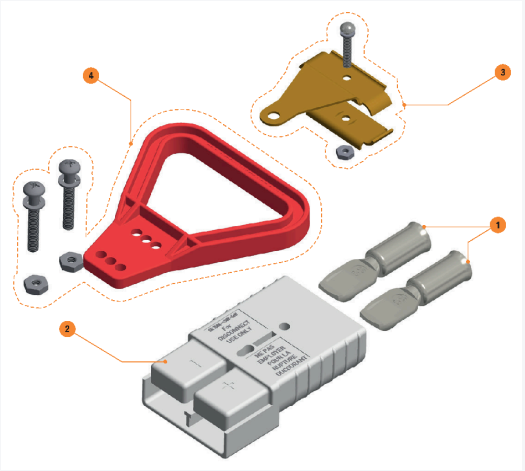
Genderless power connectors for battery vehicles, chargers and other DC applications. Plug and socket share one housing, and the housing colour marks the operating voltage so only matching voltages can mate. Contacts sized in AWG, silver-plated Cu-ETP, for crimping.



SIZES	CABLE	CODING	APPROVALS
50 · 175 · 350 A	12 AWG – 4/0 AWG	By housing colour	CE · UL recognised

Prices in EUR excl. VAT. Prices are indicative, per one unit (1 pc), and subject to change. Prices marked “ask”: **request a quote**.

SR 50



SR 50 · SR 175 · SR 350 – DRAWING © REMA · NUMBERS = POS. IN THE TABLES

SR 50 · Connector sets (housing + contacts)

HOUSING COLOUR	12-10 AWG	8 AWG	6 AWG
Grey	109317 ask	109318 ask	109316 ask
Red	109310 ask	109311 ask	109324 ask
Black	109320 ask	109321 ask	109319 ask

SR 50 · Housings

POS.	ORDER CODE	DESCRIPTION	€
Gray	109205 old 78001-00	SR 50 housing grey	ask
Red	109206 old 78002-00	SR 50 housing red	ask
Black	109207 old 78003-00	SR 50 housing black	ask

SR 50 · Contacts (silver-plated)

POS.	ORDER CODE	DESCRIPTION	€
12-10 AWG	109356 old 78265-05	SR 50 contact AWG 10/12 (1 pc.) = 3,5 mm²	ask
8 AWG	109358 old 78265-10	SR 50 contact AWG 8 (1 pc.) = 8,0 mm²	ask
6 AWG	109354 old 78265-00	SR 50 contact AWG 6 (1 pc.) = 13,3 mm²	ask

SR 50 · Accessories

POS.		ORDER CODE	DESCRIPTION	€
4		109407 old 78295-00	Handle red for SR 50 red with screws	ask
		102759 old 78295-05	Handle red for SR 50 red with screws (hook form)	ask

SR 175



CONNECTOR SETS (HOUSING + CONTACTS) · NUMBERS = POS. IN THE TABLES

SR 175 · Connector sets (housing + contacts)

HOUSING COLOUR	4 AWG	2 AWG	1/0 AWG
Grey	109328 ask	109329 ask	109327 ask
Red	109338 ask	109339 ask	109340 ask
Blue	109332 ask	109333 ask	109331 ask
Yellow	78230-00 ask	78231-00 ask	78232-00 ask
Orange	78229-00 ask	78229-01 ask	78228-00 ask

SR 175 · Housings

POS.	ORDER CODE	DESCRIPTION	€
Gray	109208 old 78004-00	SR 175 housing grey	ask
Red	109212 old 78008-00	SR 175 housing red	ask
Blue	109209 old 78005-00	SR 175 housing blue	ask
Yellow	78007-00	Housing SR 175 – yellow	ask
Orange	78006-00	Housing SR 175 – orange	ask

SR 175 · Contacts (silver-plated)

POS.	ORDER CODE	DESCRIPTION	€
AWG 4	109360 old 78268-00	SR 175 contact AWG 4 (1 pc.) = 21,5 mm²	ask
AWG 2	109364 old 78270-01	SR 175 contact AWG 2 (1 pc.) = 33,6 mm²	ask
AWG 1/0	109363 old 78270-00	**SR 175 contact AWG 1/0 (1 pc.) = 53,5 mm²**	ask

SR 175 · Accessories

POS.		ORDER CODE	DESCRIPTION	€
4		109393 old 78290-04	Handle grey SRX 175 & SRE 160 · angled · 4 screws 1/4" x 43 & screw nut	ask
4		109401 old 78291-04	Handle red SRX 175 & SRE 160 · angled · 4 screws 1/4" x 43 & screw nut	ask
3		102719 old 78010-00	Cable clamp grey for SR 175	ask
4		109392 old 78290-02	Handle grey SR 175 · angled · 2 screws 1/4" x 38	ask
4		109400 old 78291-02	Handle red SR 175 · angled · 2 screws 1/4" x 38	ask
		110912 old 78291-22	Handle red SR 175 · angled · 2 screws 1/4" x 43 & screw nut	ask
		109395 old 78290-32	Handle grey SR 175 · angled · 2 screws M6 × 40	ask
		109402 old 78291-32	Handle red SR 175 · angled · 2 screws M6 × 40	ask

SR 350



CONNECTOR SETS (HOUSING + CONTACTS) · NUMBERS = POS. IN THE TABLES

SR 350 · Connector sets (housing + contacts)

HOUSING COLOUR	1/0 AWG	2/0 AWG	3/0 AWG
Grey	109421 ask	109422 ask	109424 ask
Red	109428 ask	109429 ask	109430 ask
Blue	109425 ask	109426 ask	110390 ask
Green	78316-01 ask	78316-00 ask	78317-00 ask

SR 350 · Housings

POS.	ORDER CODE	DESCRIPTION	€
Gray	109286 old 78135-00	SR 350 housing grey	ask
Red	109289 old 78138-00	SR 350 housing red	ask
Blue	109287 old 78136-00	SR 350 housing blue	ask
Green	78139-00	Housing SR 350 – green	ask

SR 350 · Contacts (silver-plated)

POS.	ORDER CODE	DESCRIPTION	€
AWG 1/0	109368 old 78273-00	**SR 350 contact AWG 1/0 (1 pc.) = 53,50 mm²**	ask
AWG 2/0	109371 old 78275-00	**SR 350 contact AWG 2/0 (1 pc.) = 67,43 mm²**	ask
AWG 3/0	102752 old 78275-05	**SR 350 contact AWG 3/0 (1 pc.) = 85,01 mm²**	ask
AWG 4/0	102753 old 78275-10	**SR 350 contact AWG 4/0 (1 pc.) = 107,43 mm²**	ask

SR 350 · Accessories

POS.		ORDER CODE	DESCRIPTION	€
		109411 old 78297-04	Handle grey SRE 320 & SRX 350 · 4 screws 1/4" x 43 & spring wash.	ask
		109417 old 78298-04	Handle red SRE 320 & SRX 350 · 4 screws 1/4" x 43 & spring wash.	ask
4		109410 old 78297-02	Handle grey SR 350 · 2 screws 1/4" x 43 & spring wash	ask
3		102723 old 78011-00	Cable clamp grey for SR 350	ask
4		109405 old 78292-05	Handle grey SR 350 · straight · 2 screws 1/4" x 38 & spring wash	ask
4		109416 old 78298-02	Handle red SR 350 · 2 screws 1/4" x 43 & spring wash	ask
		109413 old 78297-22	Handle grey SR 350 · 2 screws M6 × 45	ask
		109420 old 78298-22	Handle red SR 350 · 2 screws M6 × 45	ask

Cable size conversion

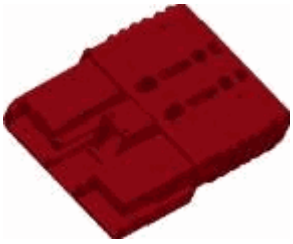
MM²	AWG / MCM
10	8 AWG
16	6 AWG
25	4 AWG
35	2 AWG
50	1/0 AWG
70	2/0 AWG
95	3/0 AWG
120	4/0 AWG
150	300 MCM
240	500 MCM

06

SRE connectors

SRE 160 · SRE 320

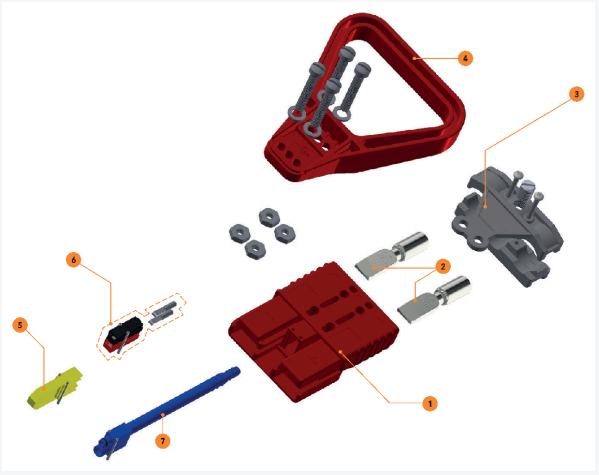
Genderless connectors in metric cable sizes, with the same colour-coded voltage system as SR. Air adapters, coding pins and auxiliary contact kits available.



SIZES	CABLE	CODING	APPROVALS
160 · 320 A	16 – 95 mm²	By housing colour	CE · UL recognised

Prices in EUR excl. VAT. Prices are indicative, per one unit (1 pc), and subject to change. Prices marked "ask": **request a quote**.

SRE 160



SRE 160 · SRE 320 · SRX 175 · SRX 350 – DRAWING © REMA · NUMBERS = POS. IN THE TABLES

SRE 160 · Connector sets (housing + contacts)

HOUSING COLOUR	16 MM²	25 MM²	35 MM²	50 MM²	1/0 AWG
Red	109233 ask	109228 ask	109251 11,00	109229 ask	109250 ask
Grey	*on request*	109220 ask	109238 ask	109221 ask	109237 ask
Blue	*on request*	109222 ask	109242 ask	109223 ask	109241 ask
Black	110907 ask	109232 ask	109264 ask	109234 ask	109265 ask
Yellow	*on request*	78033-00 ask	78066-00 ask	78034-00 ask	78065-00 ask
Green	*on request*	78037-00 ask	78081-00 ask	78038-00 ask	78080-00 ask
Orange	*on request*	78031-00 ask	78061-00 ask	78032-00 ask	78060-00 ask

SRE 160 · Housings

POS.	ORDER CODE	DESCRIPTION	€
Red	109217 old 78024-00	SRE 160 housing red	ask
Gray	109214 old 78020-00	SRE 160 housing grey	ask
Blue	109215 old 78021-00	SRE 160 housing blue	ask
Black	109219 old 78026-00	SRE 160 housing black	ask
Yellow	78023-00	Housing SRE 160 – yellow	ask
Green	78025-00	Housing SRE 160 – green	ask
Orange	78022-00	Housing SRE 160 – orange	ask

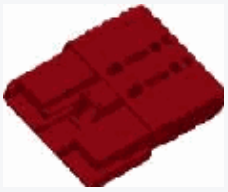
SRE 160 · Contacts (silver-plated)

POS.	ORDER CODE	DESCRIPTION	€
16 mm²	109382 old 78284-00	SRE 160 contact 16 mm² (1 pc.)	ask
25 mm²	109378 old 78282-00	SRE 160 contact 25 mm² (1 pc.)	ask
35 mm²	109380 old 78283-00	SRE 160 contact 35 mm² (1 pc.)	ask
50 mm²	109376 old 78281-00	SRE 160 contact 50 mm² (1 pc.)	3,10
1/0 AWG	109374 old 78280-00	**SRE 160 contact AWG 1/0 (1 pc.) = 53,5 mm²**	ask

SRE 160 · Accessories

POS.		ORDER CODE	DESCRIPTION	€
4		109393 old 78290-04	Handle grey SRX 175 & SRE 160 · angled · 4 screws 1/4" x 43 & screw nut	ask
4		109401 old 78291-04	Handle red SRX 175 & SRE 160 · angled · 4 screws 1/4" x 43 & screw nut	ask
		109201 old 78000-00	Cable clamp grey · plastic · for SRX/ SRE 160 / 320	3,60
		108035 old 75071-10	Air adapter 6 + 8 mm · for 160 A flat connectors · light blue	ask
5		109252 old 78072-00	Coding pin (yellow)	ask
		109257 old 78079-00	Aux cont. set for SRX/ SRE (standard)	ask
		78039-03R	SRE160 – 16 mm² – red	16,50
		109398 old 78290-54	Handle grey SRX 175 & SRE 160 · angled · 4 screws M6 x 36	ask
		109396 old 78290-34	Handle grey SRX 175 & SRE 160 · angled · 4 screws M6 x 36	ask
		109403 old 78291-34	Handle red SRX 175 & SRE 160 · angled · 4 screws M6 x 36	ask

SRE 320



CONNECTOR SETS (HOUSING + CONTACTS) · NUMBERS = POS. IN THE TABLES

SRE 320 · Connector sets (housing + contacts)

HOUSING COLOUR	50 MM²	70 MM²	95 MM²	2/0 AWG	35 MM²
Red	109446 ask	109447 ask	109449 ask	109448 ask	*on request*
Grey	109438 ask	109439 ask	109441 ask	109440 ask	*on request*
Blue	109442 ask	109443 ask	109445 ask	109444 ask	78336-35 ask
Black	109455 ask	109456 ask	109458 ask	109457 ask	78349-35 ask
Yellow	78352-00 ask	78353-00 ask	78355-00 ask	78353-05 ask	*on request*
Green	78344-00 ask	78345-00 ask	78347-00 ask	78345-05 ask	*on request*
Orange	78357-00 ask	78358-00 ask	78360-00 ask	78358-05 ask	*on request*
Brown	78357-02 ask	78358-02 ask	78338-00 ask	*on request*	*on request*

SRE 320 · Housings

POS.	ORDER CODE	DESCRIPTION	€
Red	109292 old 78151-00	SRE 320 housing red	ask
Gray	109290 old 78149-00	SRE 320 housing grey	ask
Blue	109291 old 78150-00	SRE 320 housing blue	ask
Black	109294 old 78153-00	SRE 320 housing black	ask
Yellow	78154-00	Housing SRE 320 – yellow	ask
Green	78152-00	Housing SRE 320 – green	ask
Orange	78155-00	Housing SRE 320 – orange	ask
Brown	78156-00	Housing SRE 320 – brown	ask
Purple	78157-00	Housing SRE 320 – purple	ask

SRE 320 · Contacts (silver-plated)

POS.	ORDER CODE	DESCRIPTION	€
35 mm²	102756 old 78286-00	SRE 320 contact 35 mm² (1 pc.)	ask
50 mm²	109199 old 77951-00	SRE 320 contact 50 mm² (1 pc.)	ask
70 mm²	109384 old 78285-00	SRE 320 contact 70 mm² (1 pc.) · short version	ask
95 mm²	109389 old 78287-00	SRE 320 contact 95 mm² (1 pc.)	ask
2/0 AWG	109385 old 78285-05	**SRE 320 contact AWG 2/0 (1 pc.)**	ask

SRE 320 · Accessories

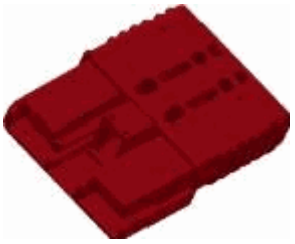
POS.		ORDER CODE	DESCRIPTION	€
4		109410 old 78297-02	Handle grey SR 350 · 2 screws 1/4" x 43 & spring wash	ask
		109411 old 78297-04	Handle grey SRE 320 & SRX 350 · 4 screws 1/4" x 43 & spring wash.	ask
		109417 old 78298-04	Handle red SRE 320 & SRX 350 · 4 screws 1/4" x 43 & spring wash.	ask
		109201 old 78000-00	Cable clamp grey · plastic · for SRX/ SRE 160 / 320	3,60
		108036 old 75071-11	Air adapter 6 + 8 mm · for 320 A flat connectors · light blue	ask
5		109252 old 78072-00	Coding pin (yellow)	ask
		109257 old 78079-00	Aux cont. set for SRX/ SRE (standard)	ask
		109406 old 78292-15	Handle grey SRE 320 · straight · 4 screws 1/4" x 3/4 & spring wash	ask
		109412 old 78297-14	Handle grey SRE 320 & SRX 350 · 4 screws 1/4" x 43 & screw nut	ask
		109414 old 78297-24	Handle grey SRE 320 & SRX 350 · 4 screws M6 × 45	ask

07

SRX connectors

SRX 175 · SRX 350

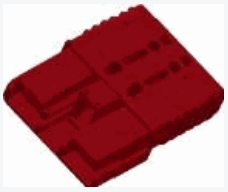
Genderless connectors for AWG cable, sharing housings and accessories with the SRE range.



SIZES	CABLE	CODING	APPROVALS
175 · 350 A	1/0 – 4/0 AWG	By housing colour	CE · UL recognised

Prices in EUR excl. VAT. Prices are indicative, per one unit (1 pc), and subject to change. Prices marked “ask”: **request a quote**.

SRX 175



CONNECTOR SETS (HOUSING + CONTACTS) · NUMBERS = POS. IN THE TABLES

SRX 175 · Connector sets (housing + contacts)

HOUSING COLOUR	1/0 AWG
Red	109250 ask
Grey	109237 ask
Blue	109241 ask
Black	109265 ask
Yellow	78065-00 ask
Green	78080-00 ask
Orange	78060-00 ask

SRX 175 · Housings

POS.	ORDER CODE	DESCRIPTION	€
Red	109217 old 78024-00	SRE 160 housing red	ask
Gray	109214 old 78020-00	SRE 160 housing grey	ask
Blue	109215 old 78021-00	SRE 160 housing blue	ask
Black	109219 old 78026-00	SRE 160 housing black	ask
Yellow	78023-00	Housing SRE 160 – yellow	ask
Green	78025-00	Housing SRE 160 – green	ask
Orange	78022-00	Housing SRE 160 – orange	ask

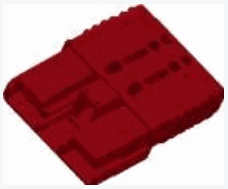
SRX 175 · Contacts (silver-plated)

POS.	ORDER CODE	DESCRIPTION	€
1/0 AWG	109374 old 78280-00	**SRE 160 contact AWG 1/0 (1 pc.) = 53,5 mm²**	ask

SRX 175 · Accessories

POS.		ORDER CODE	DESCRIPTION	€
4		109393 old 78290-04	Handle grey SRX 175 & SRE 160 · angled · 4 screws 1/4" x 43 & screw nut	ask
4		109401 old 78291-04	Handle red SRX 175 & SRE 160 · angled · 4 screws 1/4" x 43 & screw nut	ask
		109201 old 78000-00	Cable clamp grey · plastic · for SRX/ SRE 160 / 320	3,60
5		109252 old 78072-00	Coding pin (yellow)	ask
		109257 old 78079-00	Aux cont. set for SRX/ SRE (standard)	ask

SRX 350



CONNECTOR SETS (HOUSING + CONTACTS) · NUMBERS = POS. IN THE TABLES

SRX 350 · Connector sets (housing + contacts)

HOUSING COLOUR	2/0 AWG
Red	109278 ask
Grey	109272 ask
Blue	109274 ask
Black	109283 ask
Yellow	78125-00 ask
Green	78115-00 ask
Orange	78130-00 ask

SRX 350 · Housings

POS.	ORDER CODE	DESCRIPTION	€
Red	102738 old 78143-00	SRX 350 housing red	ask
Gray	102736 old 78141-00	SRX 350 housing grey	ask
Blue	102737 old 78142-00	SRX 350 housing blue	ask
Black	102740 old 78145-00	SRX 350 housing black	ask
Yellow	78146-00	Housing SRX 350 – yellow	ask
Green	78144-00	Housing SRX 350 – green	ask
Orange	78147-00	Housing SRX 350 – orange	ask

SRX 350 · Contacts (silver-plated)

POS.	ORDER CODE	DESCRIPTION	€
2/0 AWG	109385 old 78285-05	**SRE 320 contact AWG 2/0 (1 pc.)**	ask
3/0 AWG	78287-05	**Main Contact SRX 350/SRE 320 – 3/0 AWG**	ask
4/0 AWG	102755 old 78285-10	**SRX 350 contact AWG 4/0 (1 pc.) = 107,43 mm²**	ask

SRX 350 · Accessories

POS.		ORDER CODE	DESCRIPTION	€
4		109410 old 78297-02	Handle grey SR 350 · 2 screws 1/4" x 43 & spring wash	ask
		109411 old 78297-04	Handle grey SRE 320 & SRX 350 · 4 screws 1/4" x 43 & spring wash.	ask
		109417 old 78298-04	Handle red SRE 320 & SRX 350 · 4 screws 1/4" x 43 & spring wash.	ask
		109201 old 78000-00	Cable clamp grey · plastic · for SRX/ SRE 160 / 320	3,60
5		109252 old 78072-00	Coding pin (yellow)	ask
		109257 old 78079-00	Aux cont. set for SRX/ SRE (standard)	ask

08

Explosion-proof connectors

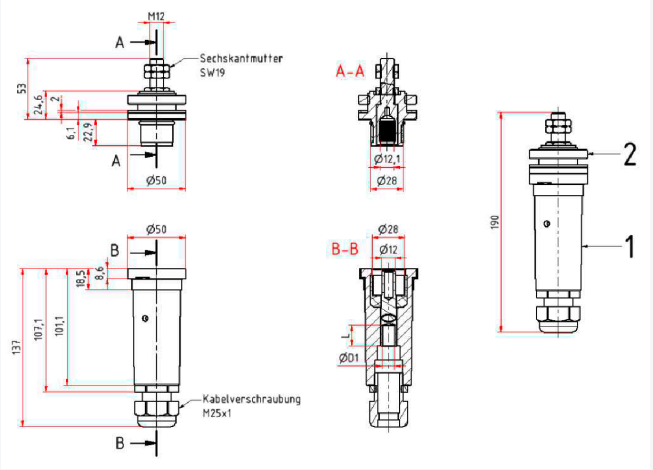
DR E250 ex

Connectors for hazardous areas, approved for zone 1 (gas) and zone 21 (dust) to directive 2014/34/EU (EN 60079-0/-1/-7/-31). Contact coding gives polarity protection; with ≥ 50 mm² cable the DR E250 ex carries 250 A continuously.



APPROVAL	RATING	CABLE	MARKING
ATEX zone 1 / 21	250 A	25 – 70 mm²	Ex

Prices in EUR excl. VAT. Prices are indicative, per one unit (1 pc), and subject to change. Prices marked "ask": **request a quote**.



DR E250 EX – DRAWING © REMA · NUMBERS = POS. IN THE TABLES



MALE CONNECTOR – NEGATIVE · NUMBERS = POS. IN THE TABLES

Male connector – positive

POS.	ORDER CODE	DESCRIPTION	€
	79250-00	DR E250 ex Plug – positive – 25-50 mm² – male	ask
	79270-00	DR E250 ex Plug – positive – 70 mm² – male	ask
	79250-05	DR E250 ex Plug – positive – 25-50 mm² – male – with coding system	ask
	79270-05	DR E250 ex Plug – positive – 70 mm² – male – with coding system	ask
1	109137	DR E250 ex Plug 25 – 50 mm² – positive	ask
1	109143	DR E250 ex Plug 70 mm² – positive	ask
1	109140	DR E250 ex Plug 25 – 50 mm² – positive	ask
1	109145	DR E250 ex Plug 70 mm² – positive	ask

Male connector – negative

POS.	ORDER CODE	DESCRIPTION	€
	79250-01	DR E250 ex Plug – negative – 25-50 mm² – male	ask
	79270-01	DR E250 ex Plug – negative – 70 mm² – male	ask
	79250-06	DR E250 ex Plug – negative – 25-50 mm² – male – with coding system	ask
	79270-06	DR E250 ex Plug – negative – 70 mm² – male – with coding system	ask
1	109138	DR E250 ex Plug 25 – 50 mm² – negative	ask
1	109144	DR E250 ex Plug 70 mm² – negative	ask
1	109141	DR E250 ex Plug 25 – 50 mm² – negative	ask
1	109146	DR E250 ex Plug 70 mm² – negative	ask

Female connector

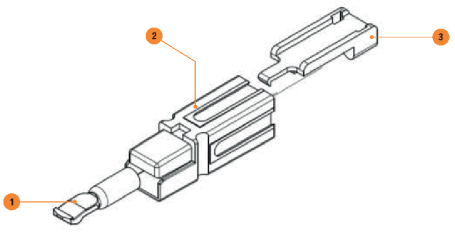
ORDER CODE	DESCRIPTION	€
79350-00	DR E250 ex M12 – female – with screw connection	ask
79350-05	DR E250 ex M12 – female – with screw connection and coding system	ask

09

Monocon connectors

Monocon 15/30/45 · Monocon 75 · Monocon 120 · Monocon 180

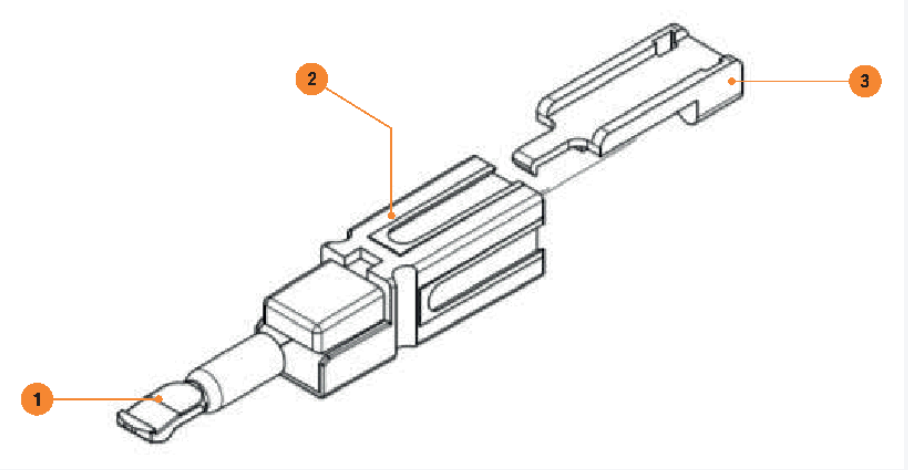
Compact genderless flat-blade connectors for light electric vehicles, chargers and DC power distribution. The housing colour codes the voltage, so only matching connectors mate. Complete connectors, housings, contacts and cable clamps.



SIZES	CABLE	CODING	DESIGN
15 – 180 A	AWG 16 – AWG 1/0	By housing colour	Genderless

Prices in EUR excl. VAT. Prices are indicative, per one unit (1 pc), and subject to change. Prices marked “ask”: **request a quote**.

Monocon 15/30/45



MONOCON 15/30/45 · 75 · 120 · 180 – DRAWING © REMA · NUMBERS = POS. IN THE TABLES

Monocon 15/30/45 · Complete connectors

HOUSING COLOUR	AWG 16	AWG 12	AWG 10
Red	109537 ask	109516 ask	109531 ask
Black	109538 ask	109518 ask	109532 ask

Monocon 15/30/45 · Accessories

ORDER CODE	DESCRIPTION	€
109204 old 78000-30	Cable clamp grey for Monocon 15 A / 30 A	ask

Monocon 15/30/45 · Housings

ORDER CODE	DESCRIPTION	€
102804 old 80120-00	Monocon 15 A / 30 A housing red	ask
102805 old 80120-01	Monocon 15 A / 30 A housing black	ask
102808 old 80120-04	Monocon 15 A / 30 A housing blue	ask

Monocon 15/30/45 · Contacts

ORDER CODE	DESCRIPTION	€
102800 old 80093-01	Monocon 15 A contact AWG 16	ask
109510 old 80093-02	Monocon 30 A contact AWG 12	ask
102801 old 80093-05	Monocon 45 A contact AWG 10	ask

Monocon 75

Monocon 75 · Complete connectors	
HOUSING COLOUR	AWG 6
Red	109541 ask
Black	109542 ask
Green	109544 ask
Blue	109545 ask

Monocon 75 · Housings		
ORDER CODE	DESCRIPTION	€
109522 old 80115-00	Monocon 75 A housing red	ask
109523 old 80115-01	Monocon 75 A housing black	ask
109526 old 80115-04	Monocon 75 A housing blue	ask

Monocon 120

Monocon 120 · Complete connectors	
HOUSING COLOUR	AWG 2
Red	109547 ask
Black	109548 ask
Blue	109556 ask

Monocon 120 · Housings		
ORDER CODE	DESCRIPTION	€
109557 old 80192-00	Monocon 120 A housing red	ask
109558 old 80192-01	Monocon 120 A housing black	ask
109561 old 80192-04	Monocon 120 A housing blue	ask

Monocon 120 · Contacts		
ORDER CODE	DESCRIPTION	€
109511 old 80093-03	Monocon 120 A contact AWG 8	ask

Monocon 180

Monocon 180 · Complete connectors		
HOUSING COLOUR		AWG 1/0
Red		109552 ask
Black		109553 ask
Blue		109551 ask

Monocon 180 · Housings		
ORDER CODE	DESCRIPTION	€
109562 old 80193-00	Monocon 180 A housing red	ask
109563 old 80193-01	Monocon 180 A housing black	ask
109565 old 80193-04	Monocon 180 A housing blue	ask

PRODUCT RANGE

Albright DC contactors

Albright stud contactors for direct-current loads in electric vehicles, materials handling, marine thrusters and winches, hydraulics and power distribution. Double-breaking silver-alloy contacts, not polarity sensitive, coils from 12 V to 240 V.

80 – 600 A
stud and busbar contactors

12 – 240 V
DC and AC coils

IP66
sealed P-type versions

Stock range. The part numbers in this catalogue are the models we keep in stock. **Every other existing Albright part number** can be ordered – delivery typically 4–7 weeks. AC-coil versions (e.g. 230 V AC) are available with a rectifier board fitted. **Customer-specific contactors** are built to order: fill in Albright's application form – **standard contactors or HV500** – and send it to us. **Full technical data** for every series – ratings, coils, dimensions – is in the **Albright datasheets**.

MK-Controls Oy is an Albright distributor – established 1992. Contact us for prices, stock and lead times.

01



SW60 & SU60 miniature contactors

SW60 · SU60 · 80 – 100 A

02



SW80 contactors

SW80 · SW82 · SW84 · SW88 · SW120

03



SW180 & SU80 contactors

SW180 · SW181 · SW182 · SU80 · 150 – 200 A

04



SW200 & SU280 contactors

SW200 · SW201 · SW202 · SU280 · 250 – 400 A

05



Motor reversing contactors

DC66 · DC88 · DC92 · DC182

06



High-current & high-voltage

SW250 · SW260 · SW560 · SW1000 · HV500

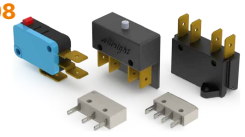
07



Emergency disconnect switches

ED · SD

08



Spare parts & accessories

Contact kits · brackets · covers

09

Part number index – to order

All known Albright part numbers · 4–7 weeks

Contents

Choosing an Albright contactor

01 SW60 & SU60 miniature contactors

- → SU60
- → SW60
- → SW61 · SW63 · SW66 · SW68

02 SW80 contactors

- → SW80
- → SW82
- → SW84
- → SW88
- → SW85 · SW822 · SW92

03 SW180 & SU80 contactors

- → SU80
- → SW180
- → SW181
- → SW182

04 SW200 & SU280 contactors

- → SU280
- → SW200
- → SW201

05 Motor reversing contactors

- → DC66
- → DC88
- → DC182

06 High-current & high-voltage

- → HV500 high voltage
- → High-current & busbar

07 Emergency disconnect switches

- → ED emergency disconnect
- → SD emergency stop

08 Spare parts & accessories

- → Auxiliary micro-switches
- → Contact kits
- → Contacts, studs & link bars
- → Top covers & dust shields
- → Coils & coil packs
- → Springs, hardware & magnets
- → Mounting brackets
- → Rectifier kits
- → Coil economisers & latching controllers
- → Emergency switch parts

09 Part number index – to order

GUIDE

Choosing an Albright contactor

Four questions pick the right Albright contactor: system voltage, load current, coil and duty, and the options. The charts below are drawn from the part numbers in this catalogue. Not sure? Send us the application or the part number you are replacing.

Choosing in four steps

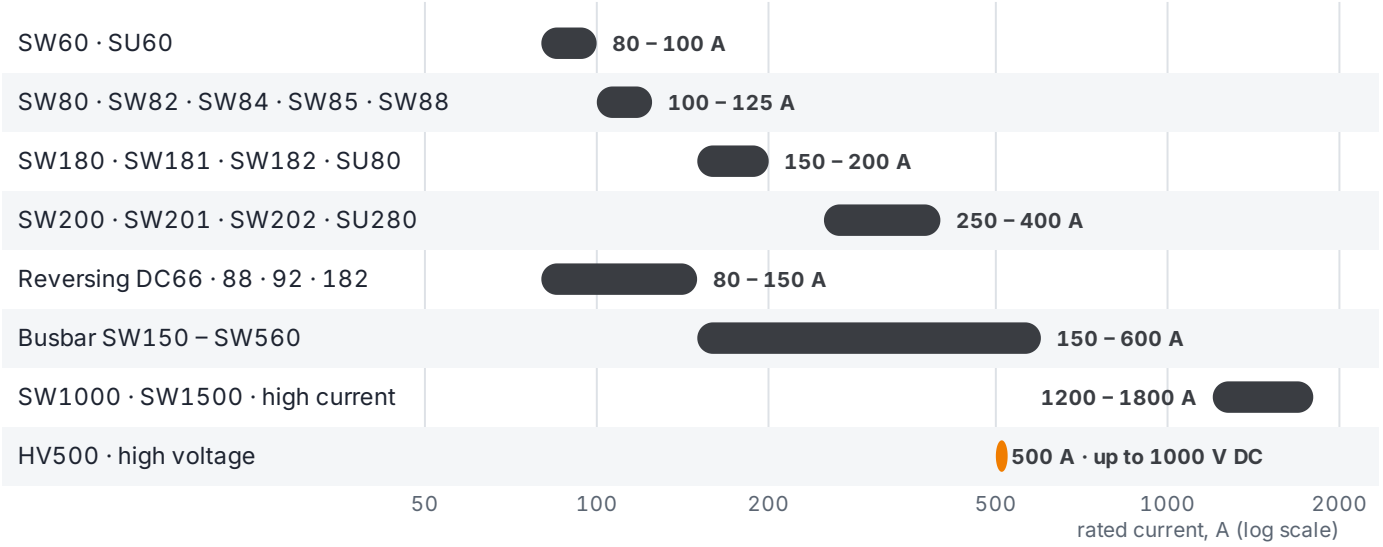
1 System voltage
Battery voltage decides the coil and whether blowouts (B) are needed.

2 Load current
Continuous current, plus the inrush and switching current of motors.

3 Coil and duty
Match the coil voltage; CO if energised for long, INT for short operation.

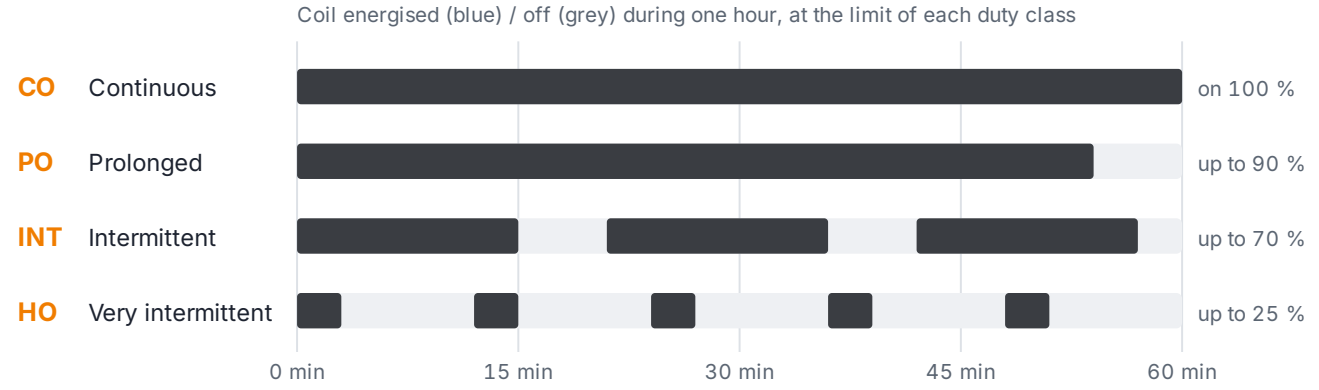
4 Options
A aux. contacts · B blowouts · P sealed IP66 · M latched · L/T contact tips.

Which series covers my current?



Bars show the lowest and highest rated current of the models in this catalogue. Rated current is the continuous (uninterrupted) value from the tables; for motors and other inductive loads choose with margin and read the interrupted rating of the type.

What the duty letters mean



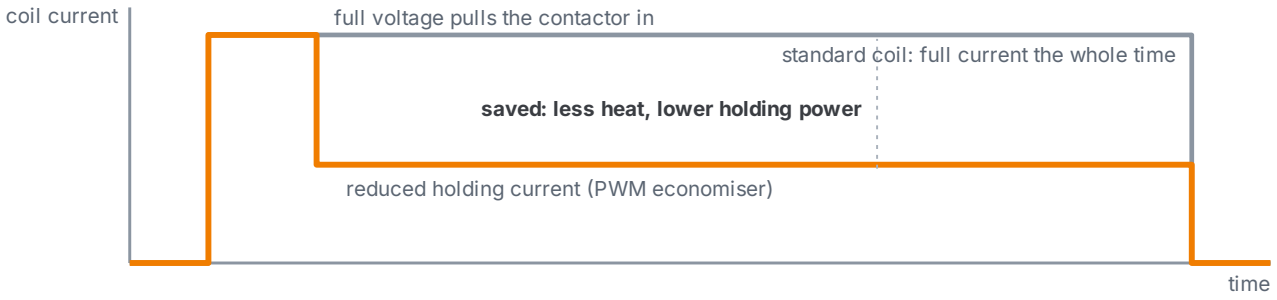
The duty letters in the part number tell how long the coil may stay energised. The shorter the duty, the stronger the coil and return spring – better for switching motors and winches on load. For permanent energising choose CO or add a coil economiser.

Which coil voltages exist?

Series group	12 V	24 V	36 V	48 V	60 V	72 V	80 V	96 V	110+ V	AC
SW60 · SU60	45	61	16	36	4	13	18		1	
SW80 · SW82 · SW84 · SW85 · SW88	61	108	21	52	10	22	19	3	7	3
SW180 · SW181 · SW182 · SU80	38	69	9	38	1	20	12	3	5	1
SW200 · SW201 · SW202 · SU280	30	58	11	41	3	20	20	4	8	2
Reversing DC66 · 88 · 92 · 182	56	69	9	36		11	10			
Busbar SW150 – SW560	7	26	1	12	11	2	4			
SW1000 · SW1500 · high current	2	2		2						
HV500 · high voltage	3	4	1	4	1					

Number of listed models per coil voltage (stock and to-order part numbers). A blank cell means no standard model in the list – ask us, many other voltages can be built to order. AC = AC coil versions (with rectifier).

Coil economiser – how it saves power



Schematic illustration, not measured data. A PWM coil economiser (CC74 series) applies full voltage only to pull the contactor in and then drops to a low holding level. This keeps the coil cool and saves battery power on continuously energised contactors – essential at high system voltages such as 96 V and with HV500.

Option letters: when do I need them?

B – magnetic blowouts

Magnets stretch and cool the arc when DC current is broken under load. Choose B for motors, winches and pumps, and at higher system voltages.

A – auxiliary contacts

A small signal switch in the cap confirms that the contactor really switched – for PLC feedback and interlocks.

P – sealed to IP66

For wet, dusty or washed-down environments. Sealed P types are not serviceable, so there are no spare contacts for them.

M – magnetically latched

The contactor holds its position without coil current and is switched with short pulses (ML controllers). No coil heating, no standby drain.

L – large contact tips

Larger silver tips for demanding duty and longer contact life. Part of the type code, so spare contacts must match.

K – key lock (ED / SD)

Emergency switches with a key lock: the switch can be locked in the open position for service and theft protection.

01 Albright International

SW60 & SU60 miniature contactors

SU60 · SW60 · SW61 · SW63 · SW66 · SW68

Compact single-pole contactors for pumps, small motors, lifts and power distribution in 12 – 80 V DC systems. Double-breaking silver-alloy contacts, not polarity sensitive; open, blowout and sealed IP66 versions.



RATING	COILS	POLES	TERMINALS
80 – 100 A	12 – 80 V DC	1 pole NO	M5 studs

Prices in EUR excl. VAT. Prices are indicative, per one unit (1 pc), and subject to change. Prices marked "ask": **request a quote**. Listed codes are stock models unless marked "to order"; other Albright part numbers 4–7 weeks.

CONTACTS

SPST NO	Single pole, single throw, normally open
SPST NC	Single pole, single throw, normally closed
SPDT	Single pole, double throw (changeover)
DPST NO	Double pole, single throw, normally open
2 × SPDT	Paired changeover – DC motor reversing

COIL DUTY (DUTY COLUMN)

CO	**Continuous** – 100 %, may stay energised permanently
PO	**Prolonged** – up to 90 %, max. 54 min on at a time
INT	**Intermittent** – up to 70 %, max. 15 min on at a time
HO	**Very intermittent** – up to 25 %, max. 3 min on at a time

RATING = interrupted / uninterrupted current (switching on load / carrying only). Shorter duty = stronger coil and return spring = better switching on load (motors, winches).

OPTIONS (● = FITTED)

A	Auxiliary contacts
B	Magnetic blowouts
C	V3 auxiliary contact
P	Sealed to IP66
L	Large contact tips
T	Textured contact tips
M	Magnetically latched

SU60

SU60 · 100 A

ORDER CODE	CONTACTS	RATING	COIL	DUTY	A	B	P	NOTES	€
SU60-2120P	SPST NO	100 A	12 V	HO			●		36,00
SU60A-2446	SPST NO	100 A	24 V		●				47,00
SU60-2025	SPST NO	100 A	48 V	CO					33,00
SU60B-2169	SPST NO	100 A	80 V	CO		●			34,50

SU60 · standard configurations – to order

ORDER CODE	CONTACTS	RATING	COIL	DUTY	A	B	P	L	NOTES	€
SU60	SPST NO	100 A	6–96 V	CO / INT						33,00

ORDER CODE	CONTACTS	RATING	COIL	DUTY	A	B	P	L	NOTES	€
SU60A	SPST NO	100 A	6–96 V	CO / INT	•					47,00
SU60B	SPST NO	100 A	6–96 V	CO / INT		•				34,50
SU60AB	SPST NO	100 A	6–96 V	CO / INT	•	•				48,50
SU60P	SPST NO	100 A	6–96 V	CO / INT			•			36,00
SU60BP	SPST NO	100 A	6–96 V	CO / INT		•	•			37,00
SU60L	SPST NO	100 A	6–96 V	CO / INT				•		40,50

Made to order, typically 4–7 weeks. Choose the coil – 6, 12, 24, 36, 48, 60, 72, 80 or 96 V DC – and the duty – CO or INT (PO and HO on request). AC versions, e.g. 230 V AC, are available with a rectifier board fitted – price on request. Albright assigns the full part number; special versions via the Albright application form.

SW60

SW60 · 80 A

ORDER CODE	CONTACTS	RATING	COIL	DUTY	A	B	C	P	M	NOTES	€
SW60B-2	SPST NO	80 A	12 V	CO		•					31,50
SW60-281	SPST NO	80 A	12 V	INT							30,00
SW60-331	SPST NO	80 A	12 V	INT							30,00
SW60-4	SPST NO	80 A	24 V	CO							30,00
SW60-40P	SPST NO	80 A	24 V	CO				•			33,00
SW60A-22	SPST NO	80 A	24 V	CO	•						45,00
SW60A-232	SPST NO	80 A	24 V	CO	•						45,00
SW60CB-512	SPST NO	80 A	24 V			•	•				37,00
SW60-44P	SPST NO	80 A	48 V	CO				•		removable bracket	33,00
SW60A-26	SPST NO	80 A	48 V	CO	•						45,00
SW60B-8	SPST NO	80 A	48 V	CO		•					31,50
SW60B-258	SPST NO	80 A	48 V	CO		•					31,50
SW60B-515	SPST NO	80 A	48 V	CO		•				removable bracket	31,50
SW60B-534	SPST NO	80 A	48 V	CO		•					31,50
SW60-382M	SPST NO	80 A	48 V	INT					•		37,00
SW60B-7	SPST NO	80 A	48 V	INT		•					31,50
SW60-553	SPST NO	80 A	80 V	CO							30,00
SW60B-514	SPST NO	80 A	80 V	CO		•					31,50
SW60B-537	SPST NO	80 A	80 V	CO		•					31,50

SW60 · standard configurations – to order

ORDER CODE	CONTACTS	RATING	COIL	DUTY	A	B	P	NOTES	€
SW60	SPST NO	80 A	6–96 V	CO / INT					30,00
SW60A	SPST NO	80 A	6–96 V	CO / INT	•				45,00
SW60B	SPST NO	80 A	6–96 V	CO / INT		•			31,50
SW60AB	SPST NO	80 A	6–96 V	CO / INT	•	•			46,50
SW60P	SPST NO	80 A	6–96 V	CO / INT			•		33,00
SW60BP	SPST NO	80 A	6–96 V	CO / INT		•	•		34,50

Made to order, typically 4–7 weeks. Choose the coil – 6, 12, 24, 36, 48, 60, 72, 80 or 96 V DC – and the duty – CO or INT (PO and HO on request). AC versions, e.g. 230 V AC, are available with a rectifier board fitted – price on request. Albright assigns the full part number; special versions via the Albright application form.

SW61 · SW63 · SW66 · SW68

SW61 · standard configurations – to order

ORDER CODE	CONTACTS	COIL	DUTY	A	B	NOTES	€
SW61	SPDT	6–96 V	CO / INT				35,00
SW61A	SPDT	6–96 V	CO / INT	•			48,50
SW61B	SPDT	6–96 V	CO / INT		•		36,50

Made to order, typically 4–7 weeks. Choose the coil – 6, 12, 24, 36, 48, 60, 72, 80 or 96 V DC – and the duty – CO or INT (PO and HO on request). AC versions, e.g. 230 V AC, are available with a rectifier board fitted – price on request. Albright assigns the full part number; special versions via the Albright application form.

SW63 · standard configurations – to order

ORDER CODE	CONTACTS	COIL	DUTY	B	P	NOTES	€
SW63	SPST NC	6–96 V	CO / INT				31,50
SW63B	SPST NC	6–96 V	CO / INT	•			33,00
SW63P	SPST NC	6–96 V	CO / INT		•		34,00

Made to order, typically 4–7 weeks. Choose the coil – 6, 12, 24, 36, 48, 60, 72, 80 or 96 V DC – and the duty – CO or INT (PO and HO on request). AC versions, e.g. 230 V AC, are available with a rectifier board fitted – price on request. Albright assigns the full part number; special versions via the Albright application form.

02 Albright International

SW80 contactors

SW80 · SW82 · SW84 · SW88 · SW85 · SW822 · SW92

The most widely used Albright stud contactor family: single pole, double pole, changeover and double-acting reversing versions for electric vehicles, hydraulics, winches, thrusters and battery isolation.



RATING	COILS	VERSIONS	OPTIONS
100 – 125 A	12 – 125 V DC	NO · DP · changeover · reversing	IP66 · blowouts · aux.

Prices in EUR excl. VAT. Prices are indicative, per one unit (1 pc), and subject to change. Prices marked “ask”: **request a quote**. Listed codes are stock models unless marked “to order”; other Albright part numbers 4–7 weeks.

CONTACTS

SPST NO	Single pole, single throw, normally open
SPST NC	Single pole, single throw, normally closed
SPDT	Single pole, double throw (changeover)
DPST NO	Double pole, single throw, normally open
2 × SPDT	Paired changeover – DC motor reversing

COIL DUTY (DUTY COLUMN)

- **CO** **Continuous** – 100 %, may stay energised permanently
- **PO** **Prolonged** – up to 90 %, max. 54 min on at a time
- **INT** **Intermittent** – up to 70 %, max. 15 min on at a time
- **HO** **Very intermittent** – up to 25 %, max. 3 min on at a time

RATING = interrupted / uninterrupted current (switching on load / carrying only). Shorter duty = stronger coil and return spring = better switching on load (motors, winches).

OPTIONS (● = FITTED)

A	Auxiliary contacts
B	Magnetic blowouts
C	V3 auxiliary contact
P	Sealed to IP66
L	Large contact tips
T	Textured contact tips
M	Magnetically latched

SW80



SEALED P TYPE (IP66)

SW80 · single pole

ORDER CODE	CONTACTS	RATING	COIL	DUTY	A	B	C	L	T	M	NOTES	€
SW80-35	SPST NO	100/125 A	12 V	CO								50,00
SW80-58	SPST NO	100/125 A	12 V	CO								50,00
SW80-745	SPST NO	100/125 A	12 V	CO								50,00
SW80-2017T	SPST NO	100/125 A	12 V	CO					●		Haulotte	50,00
SW80-3	SPST NO	100/125 A	12 V	INT								50,00

ORDER CODE	CONTACTS	RATING	COIL	DUTY	A	B	C	L	T	M	NOTES	€
SW80-2019	SPST NO	100/125 A	12 V	INT							enclosed top cover	50,00
SW80C-2004M	SPST NO	100/125 A	12 V	INT			•			•		61,00
SW80-6	SPST NO	100/125 A	24 V	CO								50,00
SW80-65	SPST NO	100/125 A	24 V	CO								50,00
SW80-105	SPST NO	100/125 A	24 V	CO								50,00
SW80-116	SPST NO	100/125 A	24 V	CO								50,00
SW80-284	SPST NO	100/125 A	24 V	CO								50,00
SW80-359	SPST NO	100/125 A	24 V	CO								50,00
SW80-1742	SPST NO	100/125 A	24 V	CO							JPT/JPY connector	50,00
SW80A-182	SPST NO	100/125 A	24 V	CO	•							72,00
SW80AB-19	SPST NO	100/125 A	24 V	CO	•	•						76,00
SW80B-6	SPST NO	100/125 A	24 V	CO		•						55,00
SW80-1	SPST NO	100/125 A	24 V	INT								50,00
SW80-278	SPST NO	100/125 A	24 V	INT								50,00
SW80-1005L	SPST NO	100/125 A	24 V	INT				•				58,00
SW80-1919L	SPST NO	100/125 A	24 V	INT				•			JPT/JPY connector	58,00
SW80A-18	SPST NO	100/125 A	24 V	INT	•							72,00
SW80-28	SPST NO	100/125 A	28 V	CO								50,00
SW80-398	SPST NO	100/125 A	36 V	CO								50,00
SW80B-7	SPST NO	100/125 A	36 V	INT		•						55,00
SW80B-40	SPST NO	100/125 A	36–48 V	INT		•						55,00
SW80B-10	SPST NO	100/125 A	48 V	CO		•						55,00
SW80B-156	SPST NO	100/125 A	48 V	CO		•						55,00
SW80B-15	SPST NO	100/125 A	72 V	CO		•						55,00
SW80B-1648	SPST NO	100/125 A	125 V	CO		•						55,00

SW80 · sealed IP66 (P types)

ORDER CODE	CONTACTS	RATING	COIL	DUTY	P	L	NOTES	€
SW80-384P	SPST NO	100/125 A	12 V	CO	•			60,00
SW80-390P	SPST NO	100/125 A	12 V	CO	•			60,00
SW80-374P	SPST NO	100/125 A	12 V	INT	•			60,00
SW80-859PE	SPST NO	100/125 A	12 V	INT	•			55,00
SW80-357P	SPST NO	100/125 A	24 V	CO	•			60,00
SW80-375P	SPST NO	100/125 A	24 V	INT	•			60,00
SW80-753PE	SPST NO	100/125 A	24 V	INT	•			55,00
SW80-860PE	SPST NO	100/125 A	24 V	INT	•			55,00
SW80-912PL	SPST NO	100/125 A	24 V	INT	•	•		67,00
SW80-1601P	SPST NO	100/125 A	24 V	INT	•			60,00
SW80-1612PL	SPST NO	100/125 A	24 V	INT	•	•		67,00
SW80-2220PL	SPST NO	100/125 A	24 V	INT	•	•		67,00
SW80-2243PE	SPST NO	100/125 A	24 V	INT	•			55,00
SW80-746P	SPST NO	100/125 A	36–48 V	CO	•			60,00
SW80-1609P	SPST NO	100/125 A	80 V	CO	•			60,00

SW80 · special versions

ORDER CODE	CONTACTS	RATING	COIL	P	L	NOTES	€
SW80S-1876PL	SPST NO	100/125 A	12 V	•	•	starter solenoid	75,00

SW80 · standard configurations – to order

ORDER CODE	CONTACTS	RATING	COIL	DUTY	A	B	P	L	NOTES	€
SW80	SPST NO	100/125 A	6–96 V	CO / INT						50,00
SW80A	SPST NO	100/125 A	6–96 V	CO / INT	•					72,00
SW80B	SPST NO	100/125 A	6–96 V	CO / INT		•				55,00
SW80AB	SPST NO	100/125 A	6–96 V	CO / INT	•	•				76,00
SW80P	SPST NO	100/125 A	6–96 V	CO / INT			•			60,00
SW80L	SPST NO	100/125 A	6–96 V	CO / INT				•		58,00
SW80BL	SPST NO	100/125 A	6–96 V	CO / INT		•		•		63,00
SW80PL	SPST NO	100/125 A	6–96 V	CO / INT			•	•		67,00

Made to order, typically 4–7 weeks. Choose the coil – 6, 12, 24, 36, 48, 60, 72, 80 or 96 V DC – and the duty – CO or INT (PO and HO on request). AC versions, e.g. 230 V AC, are available with a rectifier board fitted – price on request. Albright assigns the full part number; special versions via the Albright application form.

SW82

SW82 · double pole

ORDER CODE	CONTACTS	RATING	COIL	DUTY	P	M	NOTES	€
SW82-1	DPST NO	100 A	12 V	INT				65,00
SW82-4	DPST NO	100 A	24 V	CO				65,00
SW82-228MP	DPST NO	100 A	24 V	CO	•	•	master switch	91,00
SW82-371	DPST NO	100 A	24 V	CO			JPT/JPY connector · fuse holder	65,00
SW82-389	DPST NO	100 A	24 V	CO			JPT/JPY connector · fuse holder · Linde 7535701	65,00
SW82-3	DPST NO	100 A	24 V	INT				65,00
SW82-122P	DPST NO	100 A	28 V	CO	•			75,00

SW82 · standard configurations – to order

ORDER CODE	CONTACTS	RATING	COIL	DUTY	A	P	L	NOTES	€
SW82	DPST NO	100 A	6–96 V	CO / INT					65,00
SW82A	DPST NO	100 A	6–96 V	CO / INT	•				89,00
SW82P	DPST NO	100 A	6–96 V	CO / INT		•			75,00
SW82L	DPST NO	100 A	6–96 V	CO / INT			•		78,00

Made to order, typically 4–7 weeks. Choose the coil – 6, 12, 24, 36, 48, 60, 72, 80 or 96 V DC – and the duty – CO or INT (PO and HO on request). AC versions, e.g. 230 V AC, are available with a rectifier board fitted – price on request. Albright assigns the full part number; special versions via the Albright application form.

SW84

SW84 · changeover

ORDER CODE	CONTACTS	RATING	COIL	DUTY	A	B	L	NOTES	€
SW84-466L	SPDT	100/125 A	12 V	INT			•		115,00
SW84-4	SPDT	100/125 A	24 V	CO					93,00
SW84A-17	SPDT	100/125 A	24 V	CO	•				121,00
SW84B-4	SPDT	100/125 A	24 V	CO		•			99,00
SW84-1	SPDT	100/125 A	24 V	INT					93,00

ORDER CODE	CONTACTS	RATING	COIL	DUTY	A	B	L	NOTES	€
SW84A-16	SPDT	100/125 A	24 V	INT	•				121,00
SW84-7	SPDT	100/125 A	48 V	INT					93,00

SW84 · standard configurations – to order

ORDER CODE	CONTACTS	RATING	COIL	DUTY	A	B	NOTES	€
SW84	SPDT	100/125 A	6–96 V	CO / INT				93,00
SW84A	SPDT	100/125 A	6–96 V	CO / INT	•			121,00
SW84B	SPDT	100/125 A	6–96 V	CO / INT		•		99,00
SW84AB	SPDT	100/125 A	6–96 V	CO / INT	•	•		127,00

Made to order, typically 4–7 weeks. Choose the coil – 6, 12, 24, 36, 48, 60, 72, 80 or 96 V DC – and the duty – CO or INT (PO and HO on request). AC versions, e.g. 230 V AC, are available with a rectifier board fitted – price on request. Albright assigns the full part number; special versions via the Albright application form.

SW88

SW88 · SW120 · SW163

ORDER CODE	CONTACTS	RATING	COIL	DUTY	A	B	NOTES	€
SW88-3	2 × SPDT, reversing	100 A	12 V	INT				99,00
SW163-2	DP–SP changeover		12 V	INT				146,00
SW88B-3	2 × SPDT, reversing	100 A	12 V	HO		•		105,00
SW88A-16	2 × SPDT, reversing	100 A	24 V	CO	•			127,00
SW120A-125	DPST NO	125 A	24 V	PO	•			130,00
SW88-1	2 × SPDT, reversing	100 A	24 V	INT				99,00
SW88-46	2 × SPDT, reversing	100 A	24 V	INT				99,00

SW88 · standard configurations – to order

ORDER CODE	CONTACTS	RATING	COIL	DUTY	A	B	NOTES	€
SW88	2 × SPDT, reversing	100 A	6–96 V	CO / INT				99,00
SW88A	2 × SPDT, reversing	100 A	6–96 V	CO / INT	•			127,00
SW88B	2 × SPDT, reversing	100 A	6–96 V	CO / INT		•		105,00
SW88AB	2 × SPDT, reversing	100 A	6–96 V	CO / INT	•	•		133,00

Made to order, typically 4–7 weeks. Choose the coil – 6, 12, 24, 36, 48, 60, 72, 80 or 96 V DC – and the duty – CO or INT (PO and HO on request). AC versions, e.g. 230 V AC, are available with a rectifier board fitted – price on request. Albright assigns the full part number; special versions via the Albright application form.

SW85 · SW822 · SW92

SW85 · standard configurations – to order

ORDER CODE	CONTACTS	COIL	DUTY	A	B	P	NOTES	€
SW85	SPST NC	6–96 V	CO / INT					58,00
SW85A	SPST NC	6–96 V	CO / INT	•				79,00
SW85B	SPST NC	6–96 V	CO / INT		•			63,00
SW85P	SPST NC	6–96 V	CO / INT			•		70,00

Made to order, typically 4–7 weeks. Choose the coil – 6, 12, 24, 36, 48, 60, 72, 80 or 96 V DC – and the duty – CO or INT (PO and HO on request). AC versions, e.g. 230 V AC, are available with a rectifier board fitted – price on request. Albright assigns the full part number; special

versions via the Albright application form.

Part number key

LETTER	MEANING
A	Auxiliary contacts fitted
B	Magnetic blowouts
C	V3 auxiliary contacts
E	Economy circuit
N	No blowouts (SW200)
-nnn	Identity no. (coil & spec)
L	Large contact tips
M	Magnetically latched
P	Protected to IP66
T	Textured contact tips

Example: SW80**B**-1612**PL** = SW80 with blowouts, identity 1612, IP66, large tips.

03 Albright International

SW180 & SU80 contactors

SU80 · SW180 · SW181 · SW182

Mid-range contactors for traction, pump and steering motors, battery disconnect and power distribution. SU80 is the modern sealed series; SW181/SW182 changeover and reversing combinations.



RATING	COILS	VERSIONS	OPTIONS
150 – 200 A	12 – 80 V DC	NO · changeover · reversing	IP66 · blowouts · latching

Prices in EUR excl. VAT. Prices are indicative, per one unit (1 pc), and subject to change. Prices marked “ask”: **request a quote**. Listed codes are stock models unless marked “to order”; other Albright part numbers 4–7 weeks.

CONTACTS

SPST NO	Single pole, single throw, normally open
SPST NC	Single pole, single throw, normally closed
SPDT	Single pole, double throw (changeover)
DPST NO	Double pole, single throw, normally open
2 × SPDT	Paired changeover – DC motor reversing

COIL DUTY (DUTY COLUMN)

- **CO** **Continuous** – 100 %, may stay energised permanently
- **PO** **Prolonged** – up to 90 %, max. 54 min on at a time
- **INT** **Intermittent** – up to 70 %, max. 15 min on at a time
- **HO** **Very intermittent** – up to 25 %, max. 3 min on at a time

RATING = interrupted / uninterrupted current (switching on load / carrying only). Shorter duty = stronger coil and return spring = better switching on load (motors, winches).

OPTIONS (● = FITTED)

A	Auxiliary contacts
B	Magnetic blowouts
C	V3 auxiliary contact
P	Sealed to IP66
L	Large contact tips
T	Textured contact tips
M	Magnetically latched

SU80



SEALED IP66 VERSION

SU80 · sealed series

ORDER CODE	CONTACTS	RATING	COIL	DUTY	P	L	NOTES	€
SU80-5567	SPST NO	150/200 A	12 V	INT				46,00
SU80-5162PL	SPST NO	150/200 A	14 V	CO	●	●		60,00
SU80-5050P	SPST NO	150/200 A	24 V	CO	●			54,00
SU80-5144P	SPST NO	150/200 A	24 V	INT	●			54,00
SU80-5163PL	SPST NO	150/200 A	28 V	CO	●	●		60,00

ORDER CODE	CONTACTS	RATING	COIL	DUTY	P	L	NOTES	€
SU80-5217P	SPST NO	150/200 A	36 V	INT	•			54,00
SU80-5046P	SPST NO	150/200 A	48 V	CO	•			54,00
SU80-5048P	SPST NO	150/200 A	48 V	INT	•			54,00

SU80 · standard configurations – to order

ORDER CODE	CONTACTS	RATING	COIL	DUTY	A	B	P	L	NOTES	€
SU80	SPST NO	150/200 A	6–96 V	CO / INT						46,00
SU80A	SPST NO	150/200 A	6–96 V	CO / INT	•					63,00
SU80B	SPST NO	150/200 A	6–96 V	CO / INT		•				49,50
SU80AB	SPST NO	150/200 A	6–96 V	CO / INT	•	•				67,00
SU80P	SPST NO	150/200 A	6–96 V	CO / INT			•			54,00
SU80BP	SPST NO	150/200 A	6–96 V	CO / INT		•	•			57,00
SU80L	SPST NO	150/200 A	6–96 V	CO / INT				•		52,00
SU80PL	SPST NO	150/200 A	6–96 V	CO / INT			•	•		60,00

Made to order, typically 4–7 weeks. Choose the coil – 6, 12, 24, 36, 48, 60, 72, 80 or 96 V DC – and the duty – CO or INT (PO and HO on request). AC versions, e.g. 230 V AC, are available with a rectifier board fitted – price on request. Albright assigns the full part number; special versions via the Albright application form.

SW180



SW180 WITH MANUAL OVERRIDE

SW180 · single pole

ORDER CODE	CONTACTS	RATING	COIL	DUTY	A	B	L	M	NOTES	€
SW180B-2	SPST NO	150/200 A	12 V	CO		•				91,00
SW180B-1248L	SPST NO	150/200 A	12 V	INT		•	•			121,00
SW180-4	SPST NO	150/200 A	24 V	CO						86,00
SW180A-595	SPST NO	150/200 A	24 V	CO	•					106,00
SW180AB-48	SPST NO	150/200 A	24 V	CO	•	•				111,00
SW180B-4	SPST NO	150/200 A	24 V	CO		•				91,00
SW180-3	SPST NO	150/200 A	24 V	INT						86,00
SW180-448L	SPST NO	150/200 A	24 V	INT			•			115,00
SW180-809	SPST NO	150/200 A	24 V	INT						86,00
SW180-954L	SPST NO	150/200 A	24 V	INT			•			115,00
SW180B-3	SPST NO	150/200 A	24 V	INT		•				91,00
SW180B-448L	SPST NO	150/200 A	24 V	INT		•	•			121,00
SW180-201	SPST NO	150/200 A	28 V	CO						86,00
SW180A-649M	SPST NO	150/200 A	30 V	INT	•			•		126,00
SW180B-93	SPST NO	150/200 A	36–48 V	INT		•				91,00
SW180B-8	SPST NO	150/200 A	48 V	CO		•				91,00
SW180B-108	SPST NO	150/200 A	48 V	CO		•				91,00
SW180AB-51	SPST NO	150/200 A	48 V	INT	•	•				111,00
SW180B-14	SPST NO	150/200 A	72–80 V	CO		•				91,00

ORDER CODE	CONTACTS	RATING	COIL	DUTY	A	B	L	M	NOTES	€
SW180B-204	SPST NO	150/200 A	80 V	CO		•				91,00
SW180AB-879L	SPST NO	150/200 A	80 V	INT	•	•	•			141,00

SW180 · standard configurations – to order

ORDER CODE	CONTACTS	RATING	COIL	DUTY	A	B	L	NOTES	€
SW180	SPST NO	150/200 A	6–96 V	CO / INT					86,00
SW180A	SPST NO	150/200 A	6–96 V	CO / INT	•				106,00
SW180B	SPST NO	150/200 A	6–96 V	CO / INT		•			91,00
SW180AB	SPST NO	150/200 A	6–96 V	CO / INT	•	•			111,00
SW180L	SPST NO	150/200 A	6–96 V	CO / INT			•		115,00
SW180BL	SPST NO	150/200 A	6–96 V	CO / INT		•	•		121,00

Made to order, typically 4–7 weeks. Choose the coil – 6, 12, 24, 36, 48, 60, 72, 80 or 96 V DC – and the duty – CO or INT (PO and HO on request). AC versions, e.g. 230 V AC, are available with a rectifier board fitted – price on request. Albright assigns the full part number; special versions via the Albright application form.

SW181

SW181 · changeover

ORDER CODE	CONTACTS	RATING	COIL	DUTY	A	B	T	NOTES	€
SW181-1	SPDT	150 A	12 V	INT					99,00
SW181-4	SPDT	150 A	24 V	CO					99,00
SW181A-48	SPDT	150 A	24 V	CO	•				115,00
SW181AB-48	SPDT	150 A	24 V	CO	•	•			119,00
SW181B-141	SPDT	150 A	24 V	CO		•			103,00
SW181B-241T	SPDT	150 A	24 V	INT		•	•		103,00
SW181-8	SPDT	150 A	48 V	CO					99,00
SW181AB-52	SPDT	150 A	48 V	CO	•	•			119,00
SW181AB-51	SPDT	150 A	48 V	INT	•	•			119,00

SW181 · standard configurations – to order

ORDER CODE	CONTACTS	RATING	COIL	DUTY	A	B	NOTES	€
SW181	SPDT	150 A	6–96 V	CO / INT				99,00
SW181A	SPDT	150 A	6–96 V	CO / INT	•			115,00
SW181B	SPDT	150 A	6–96 V	CO / INT		•		103,00
SW181AB	SPDT	150 A	6–96 V	CO / INT	•	•		119,00

Made to order, typically 4–7 weeks. Choose the coil – 6, 12, 24, 36, 48, 60, 72, 80 or 96 V DC – and the duty – CO or INT (PO and HO on request). AC versions, e.g. 230 V AC, are available with a rectifier board fitted – price on request. Albright assigns the full part number; special versions via the Albright application form.

SW182

SW182 · motor reversing

ORDER CODE	CONTACTS	RATING	COIL	DUTY	B	NOTES	€
SW182B-2	2 × SPDT, reversing	150 A	12 V	CO	•		247,00

ORDER CODE	CONTACTS	RATING	COIL	DUTY	B	NOTES	€
SW182B-4	2 × SPDT, reversing	150 A	24 V	CO	•		247,00
SW182B-102	2 × SPDT, reversing	150 A	24 V	INT	•		247,00
SW182B-93	2 × SPDT, reversing	150 A	36–48 V	INT	•		247,00

SW182 · standard configurations – to order

ORDER CODE	CONTACTS	RATING	COIL	DUTY	A	B	NOTES	€
SW182	2 × SPDT, reversing	150 A	6–96 V	CO / INT				239,00
SW182A	2 × SPDT, reversing	150 A	6–96 V	CO / INT	•			275,00
SW182B	2 × SPDT, reversing	150 A	6–96 V	CO / INT		•		247,00
SW182AB	2 × SPDT, reversing	150 A	6–96 V	CO / INT	•	•		284,00

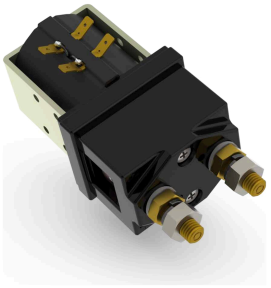
Made to order, typically 4–7 weeks. Choose the coil – 6, 12, 24, 36, 48, 60, 72, 80 or 96 V DC – and the duty – CO or INT (PO and HO on request). AC versions, e.g. 230 V AC, are available with a rectifier board fitted – price on request. Albright assigns the full part number; special versions via the Albright application form.

04 Albright International

SW200 & SU280 contactors

SU280 · SW200 · SW201

Heavy-duty contactors for main line switching, traction and battery isolation up to 400 A. Magnetic blowouts as standard on SW200; SU280 in open and sealed IP66 versions; AC coil versions available.



RATING	COILS	VERSIONS	OPTIONS
250 – 400 A	12 – 96 V DC · 110 – 240 V AC	NO · changeover · reversing	IP66 · blowouts · aux.

Prices in EUR excl. VAT. Prices are indicative, per one unit (1 pc), and subject to change. Prices marked “ask”: **request a quote**. Listed codes are stock models unless marked “to order”; other Albright part numbers 4–7 weeks.

CONTACTS

SPST NO	Single pole, single throw, normally open
SPST NC	Single pole, single throw, normally closed
SPDT	Single pole, double throw (changeover)
DPST NO	Double pole, single throw, normally open
2 × SPDT	Paired changeover – DC motor reversing

COIL DUTY (DUTY COLUMN)

CO	**Continuous** – 100 %, may stay energised permanently
PO	**Prolonged** – up to 90 %, max. 54 min on at a time
INT	**Intermittent** – up to 70 %, max. 15 min on at a time
HO	**Very intermittent** – up to 25 %, max. 3 min on at a time

RATING = interrupted / uninterrupted current (switching on load / carrying only). Shorter duty = stronger coil and return spring = better switching on load (motors, winches).

OPTIONS (● = FITTED)

A	Auxiliary contacts
B	Magnetic blowouts
C	V3 auxiliary contact
P	Sealed to IP66
L	Large contact tips
T	Textured contact tips
M	Magnetically latched

SW200, SW201 and SW202 always have magnetic blowouts (B), also when the B is not in the part number; “N” in the type means without blowouts.

SU280



SU280

SU280

ORDER CODE	CONTACTS	RATING	COIL	DUTY	B	P	NOTES	€
SU280-1066P	SPST NO	250/350 A	12 V	CO		●		110,00
SU280-1001	SPST NO	250/350 A	12 V	INT				95,00
SU280-1067P	SPST NO	250/350 A	24 V	INT		●		110,00

ORDER CODE	CONTACTS	RATING	COIL	DUTY	B	P	NOTES	€
SU280-1174	SPST NO	250/350 A	24 V	INT				95,00
SU280-1010	SPST NO	250/350 A	48 V	CO				95,00
SU280-1074P	SPST NO	250/350 A	48 V	CO		•		110,00
SU280B-1699	SPST NO	250/350 A	48 V	CO	•			99,00
SU280B-1387	SPST NO	250/350 A	48 V	INT	•			99,00
SU280B-1283	SPST NO	250/350 A	72 V	CO	•			99,00
SU280B-1015	SPST NO	250/350 A	80 V	INT	•			99,00
SU280B-1079P	SPST NO	250/350 A	80 V	INT	•	•		115,00
SU280B-1412	SPST NO	250/350 A	80 V	INT	•			99,00
SU280B-1326	SPST NO	250/350 A	96 V	CO	•			99,00

SU280 · standard configurations – to order

ORDER CODE	CONTACTS	RATING	COIL	DUTY	A	B	P	NOTES	€
SU280	SPST NO	250/350 A	6–96 V	CO / INT					95,00
SU280A	SPST NO	250/350 A	6–96 V	CO / INT	•				112,00
SU280B	SPST NO	250/350 A	6–96 V	CO / INT		•			99,00
SU280AB	SPST NO	250/350 A	6–96 V	CO / INT	•	•			116,00
SU280P	SPST NO	250/350 A	6–96 V	CO / INT			•		110,00
SU280BP	SPST NO	250/350 A	6–96 V	CO / INT		•	•		115,00

Made to order, typically 4–7 weeks. Choose the coil – 6, 12, 24, 36, 48, 60, 72, 80 or 96 V DC – and the duty – CO or INT (PO and HO on request). AC versions, e.g. 230 V AC, are available with a rectifier board fitted – price on request. Albright assigns the full part number; special versions via the Albright application form.

SW200

SW200 · single pole

ORDER CODE	CONTACTS	RATING	COIL	DUTY	A	B	NOTES	€
SW200-22	SPST NO	250/400 A	12 V	INT		•		193,00
SW200-29	SPST NO	250/400 A	24 V	CO		•		193,00
SW200-336	SPST NO	250/400 A	24 V	CO		•		193,00
SW200A-11	SPST NO	250/400 A	24 V	CO	•	•		217,00
SW200-115	SPST NO	250/400 A	24 V	INT		•		193,00
SW200-281	SPST NO	250/400 A	24 V	INT		•		193,00
SW200-445	SPST NO	250/400 A	24 V	INT		•		193,00
SW200-92	SPST NO	250/400 A	36 V	CO		•		193,00
SW200-20	SPST NO	250/400 A	48 V	CO		•		193,00
SW200-914	SPST NO	250/400 A	48 V	CO		•	enclosed top cover	193,00
SW200A-261	SPST NO	250/400 A	48 V	CO	•	•		217,00
SW200AN-1222	SPST NO	250/400 A	48 V	CO	•			212,00
SW200A-14	SPST NO	250/400 A	48 V	INT	•	•		217,00
SW200-21	SPST NO	250/400 A	72–80 V	CO		•		193,00
SW200-1405	SPST NO	250/400 A	96 V	CO		•		193,00
SW200A-24	SPST NO	250/400 A	110 V	CO	•	•		217,00
SW200-599	SPST NO	250/400 A	230 V AC	CO		•		193,00
SW200N-48	SPST NO	250/400 A	240 V AC					188,00

SW200 · standard configurations – to order

ORDER CODE	CONTACTS	RATING	COIL	DUTY	A	B	NOTES	€
SW200	SPST NO	250/400 A	6–96 V	CO / INT		•		193,00
SW200A	SPST NO	250/400 A	6–96 V	CO / INT	•	•		217,00
SW200N	SPST NO	250/400 A	6–96 V	CO / INT				188,00
SW200AN	SPST NO	250/400 A	6–96 V	CO / INT	•			212,00

Made to order, typically 4–7 weeks. Choose the coil – 6, 12, 24, 36, 48, 60, 72, 80 or 96 V DC – and the duty – CO or INT (PO and HO on request). AC versions, e.g. 230 V AC, are available with a rectifier board fitted – price on request. Albright assigns the full part number; special versions via the Albright application form.

SW201

SW201 · SW202 · changeover & reversing

ORDER CODE	CONTACTS	RATING	COIL	DUTY	A	B	NOTES	€
SW202-60	2 × SPDT, reversing	250 A	12 V	CO		•		299,00
SW201A-14	SPDT	250 A	24 V	CO	•	•		212,00
SW202-16	2 × SPDT, reversing	250 A	24 V	CO		•		299,00
SW201-241	SPDT	250 A	24 V	INT		•		194,00
SW202N-6	2 × SPDT, reversing	250 A	24 V	INT				294,00
SW201-157	SPDT	250 A	72–80 V	CO		•		194,00

SW201 · standard configurations – to order

ORDER CODE	CONTACTS	RATING	COIL	DUTY	A	B	NOTES	€
SW201	SPDT	250 A	6–96 V	CO / INT		•		194,00
SW201A	SPDT	250 A	6–96 V	CO / INT	•	•		212,00
SW201N	SPDT	250 A	6–96 V	CO / INT				191,00

Made to order, typically 4–7 weeks. Choose the coil – 6, 12, 24, 36, 48, 60, 72, 80 or 96 V DC – and the duty – CO or INT (PO and HO on request). AC versions, e.g. 230 V AC, are available with a rectifier board fitted – price on request. Albright assigns the full part number; special versions via the Albright application form.

SW202 · standard configurations – to order

ORDER CODE	CONTACTS	RATING	COIL	DUTY	A	B	NOTES	€
SW202	2 × SPDT, reversing	250 A	6–96 V	CO / INT		•		299,00
SW202A	2 × SPDT, reversing	250 A	6–96 V	CO / INT	•	•		326,00
SW202N	2 × SPDT, reversing	250 A	6–96 V	CO / INT				294,00

Made to order, typically 4–7 weeks. Choose the coil – 6, 12, 24, 36, 48, 60, 72, 80 or 96 V DC – and the duty – CO or INT (PO and HO on request). AC versions, e.g. 230 V AC, are available with a rectifier board fitted – price on request. Albright assigns the full part number; special versions via the Albright application form.

05 Albright International

Motor reversing contactors

DC66 · DC88 · DC182

Monoblock direction contactors for DC motors: bow and stern thrusters, winches, tail-lifts, hydraulic power packs and access platforms. Two contactors mechanically and electrically paired on one block.



RATING	COILS	DUTY	OPTIONS
80 – 150 A	12 – 80 V DC	Intermittent	IP66 · blowouts

Prices in EUR excl. VAT. Prices are indicative, per one unit (1 pc), and subject to change. Prices marked "ask": **request a quote**. Listed codes are stock models unless marked "to order"; other Albright part numbers 4–7 weeks.

CONTACTS

SPST NO	Single pole, single throw, normally open
SPST NC	Single pole, single throw, normally closed
SPDT	Single pole, double throw (changeover)
DPST NO	Double pole, single throw, normally open
2 × SPDT	Paired changeover – DC motor reversing

COIL DUTY (DUTY COLUMN)

- **CO** **Continuous** – 100 %, may stay energised permanently
- **PO** **Prolonged** – up to 90 %, max. 54 min on at a time
- **INT** **Intermittent** – up to 70 %, max. 15 min on at a time
- **HO** **Very intermittent** – up to 25 %, max. 3 min on at a time

RATING = interrupted / uninterrupted current (switching on load / carrying only). Shorter duty = stronger coil and return spring = better switching on load (motors, winches).

OPTIONS (● = FITTED)

A	Auxiliary contacts
B	Magnetic blowouts
C	V3 auxiliary contact
P	Sealed to IP66
L	Large contact tips
T	Textured contact tips
M	Magnetically latched

DC66

DC66 · 80 A

ORDER CODE	CONTACTS	RATING	COIL	DUTY	P	NOTES	€
DC66-11P	2 × SPDT, reversing	80 A	12 V	CO	●		75,00
DC66-9P	2 × SPDT, reversing	80 A	12 V	INT	●		75,00
DC66-19P	2 × SPDT, reversing	80 A	12 V	HO	●		75,00
DC66-53P	2 × SPDT, reversing	80 A	12 V	HO	●		75,00
DC66-13P	2 × SPDT, reversing	80 A	24 V	CO	●		75,00
DC66-31P	2 × SPDT, reversing	80 A	24 V	HO	●		75,00
DC66-38P	2 × SPDT, reversing	80 A	24 V	HO	●		75,00
DC66-73P	2 × SPDT, reversing	80 A	24 V	HO	●		75,00

DC88

DC88 · DC92 · 100 A

ORDER CODE	CONTACTS	RATING	COIL	DUTY	B	P	L	T	NOTES	€
DC88-2	2 × SPDT, reversing	100 A	12 V	CO						139,00
DC88B-2	2 × SPDT, reversing	100 A	12 V	CO	•					147,00
DC88-259	2 × SPDT, reversing	100 A	12 V	INT						139,00
DC88-286L	2 × SPDT, reversing	100 A	12 V	INT			•			159,00
DC88-492L	2 × SPDT, reversing	100 A	12 V	INT			•			159,00
DC88-538L	2 × SPDT, reversing	100 A	12 V	INT			•			159,00
DC88-554L	2 × SPDT, reversing	100 A	12 V	INT			•			159,00
DC88B-467L	2 × SPDT, reversing	100 A	12 V	INT	•		•			166,00
DC92-230P	2 × SPST NO	100 A	12 V	INT		•				105,00
DC88-499PL	2 × SPDT, reversing	100 A	12 V	HO		•	•			173,00
DC88B-4	2 × SPDT, reversing	100 A	24 V	CO	•					147,00
DC88-1	2 × SPDT, reversing	100 A	24 V	INT						139,00
DC88-267L	2 × SPDT, reversing	100 A	24 V	INT			•			159,00
DC88-307T	2 × SPDT, reversing	100 A	24 V	INT				•		139,00
DC88-325T	2 × SPDT, reversing	100 A	24 V	INT				•		139,00
DC88-409T	2 × SPDT, reversing	100 A	24 V	INT				•		139,00
DC88-479L	2 × SPDT, reversing	100 A	24 V	INT			•			159,00
DC88-641L	2 × SPDT, reversing	100 A	24 V	INT			•			159,00
DC88B-374	2 × SPDT, reversing	100 A	24 V	INT	•					147,00
DC88-122	2 × SPDT, reversing	100 A	48 V	INT						139,00

DC88 · standard configurations – to order

ORDER CODE	CONTACTS	RATING	COIL	DUTY	A	B	P	L	NOTES	€
DC88	2 × SPDT, reversing	100 A	6–96 V	CO / INT						139,00
DC88A	2 × SPDT, reversing	100 A	6–96 V	CO / INT	•					185,00
DC88B	2 × SPDT, reversing	100 A	6–96 V	CO / INT		•				147,00
DC88L	2 × SPDT, reversing	100 A	6–96 V	CO / INT				•		159,00
DC88P	2 × SPDT, reversing	100 A	6–96 V	CO / INT			•			154,00
DC88PL	2 × SPDT, reversing	100 A	6–96 V	CO / INT			•	•		173,00

Made to order, typically 4–7 weeks. Choose the coil – 6, 12, 24, 36, 48, 60, 72, 80 or 96 V DC – and the duty – CO or INT (PO and HO on request). AC versions, e.g. 230 V AC, are available with a rectifier board fitted – price on request. Albright assigns the full part number; special versions via the Albright application form.

DC92 · standard configurations – to order

ORDER CODE	CONTACTS	RATING	COIL	DUTY	B	P	NOTES	€
DC92	2 × SPST NO	100 A	6–96 V	CO / INT				97,00
DC92B	2 × SPST NO	100 A	6–96 V	CO / INT	•			104,00
DC92P	2 × SPST NO	100 A	6–96 V	CO / INT		•		105,00

Made to order, typically 4–7 weeks. Choose the coil – 6, 12, 24, 36, 48, 60, 72, 80 or 96 V DC – and the duty – CO or INT (PO and HO on request). AC versions, e.g. 230 V AC, are available with a rectifier board fitted – price on request. Albright assigns the full part number; special versions via the Albright application form.

DC182

DC182 · 150 A

ORDER CODE	CONTACTS	RATING	COIL	DUTY	B	L	T	NOTES	€
DC182B-2	2 × SPDT, reversing	150 A	12 V	CO	•				188,00
DC182-490	2 × SPDT, reversing	150 A	12 V	INT					182,00
DC182-656	2 × SPDT, reversing	150 A	12 V	INT					182,00
DC182-774L	2 × SPDT, reversing	150 A	12 V	INT		•			213,00
DC182-776L	2 × SPDT, reversing	150 A	12 V	INT		•			213,00
DC182B-1	2 × SPDT, reversing	150 A	12 V	INT	•				188,00
DC182B-692L	2 × SPDT, reversing	150 A	12 V	INT	•	•			219,00
DC182B-4	2 × SPDT, reversing	150 A	24 V	CO	•				188,00
DC182-3	2 × SPDT, reversing	150 A	24 V	INT					182,00
DC182-491	2 × SPDT, reversing	150 A	24 V	INT					182,00
DC182-780L	2 × SPDT, reversing	150 A	24 V	INT		•			213,00
DC182B-3	2 × SPDT, reversing	150 A	24 V	INT	•				188,00
DC182B-691L	2 × SPDT, reversing	150 A	24 V	INT	•	•			219,00
DC182-781L	2 × SPDT, reversing	150 A	24 V			•		for Lewmar bow thrusters 4–8 kW	213,00
DC182B-7	2 × SPDT, reversing	150 A	48 V	INT	•				188,00
DC182B-538T	2 × SPDT, reversing	150 A	48 V	INT	•		•		188,00
DC182B-588	2 × SPDT, reversing	150 A	48 V	INT	•				188,00
DC182B-733	2 × SPDT, reversing	150 A	48 V		•				188,00
DC182B-15	2 × SPDT, reversing	150 A	72–80 V	INT	•				188,00
DC182-619	2 × SPDT, reversing	150 A							182,00

DC182 · standard configurations – to order

ORDER CODE	CONTACTS	RATING	COIL	DUTY	A	B	P	L	NOTES	€
DC182	2 × SPDT, reversing	150 A	6–96 V	CO / INT						182,00
DC182A	2 × SPDT, reversing	150 A	6–96 V	CO / INT	•					223,00
DC182B	2 × SPDT, reversing	150 A	6–96 V	CO / INT		•				188,00
DC182L	2 × SPDT, reversing	150 A	6–96 V	CO / INT				•		213,00
DC182P	2 × SPDT, reversing	150 A	6–96 V	CO / INT			•			193,00
DC182PL	2 × SPDT, reversing	150 A	6–96 V	CO / INT			•	•		224,00

Made to order, typically 4–7 weeks. Choose the coil – 6, 12, 24, 36, 48, 60, 72, 80 or 96 V DC – and the duty – CO or INT (PO and HO on request). AC versions, e.g. 230 V AC, are available with a rectifier board fitted – price on request. Albright assigns the full part number; special versions via the Albright application form.

06 Albright International

High-current & high-voltage

HV500 high voltage · High-current & busbar

Busbar and high-current contactors up to 1000 A class, and the HV500 high-voltage contactor for EV and energy-storage systems up to 1000 V DC with PWM coil economiser.



RATING	HV500	COIL	USE
up to 600 A+	up to 1000 V DC	PWM economiser	EV · ESS · busbar

Prices in EUR excl. VAT. Prices are indicative, per one unit (1 pc), and subject to change. Prices marked "ask": **request a quote**. Listed codes are stock models unless marked "to order"; other Albright part numbers 4–7 weeks.

CONTACTS

SPST NO	Single pole, single throw, normally open
SPST NC	Single pole, single throw, normally closed
SPDT	Single pole, double throw (changeover)
DPST NO	Double pole, single throw, normally open
2 × SPDT	Paired changeover – DC motor reversing

COIL DUTY (DUTY COLUMN)

CO	**Continuous** – 100 %, may stay energised permanently
PO	**Prolonged** – up to 90 %, max. 54 min on at a time
INT	**Intermittent** – up to 70 %, max. 15 min on at a time
HO	**Very intermittent** – up to 25 %, max. 3 min on at a time

RATING = interrupted / uninterrupted current (switching on load / carrying only). Shorter duty = stronger coil and return spring = better switching on load (motors, winches).

OPTIONS (● = FITTED)

A	Auxiliary contacts
B	Magnetic blowouts
C	V3 auxiliary contact
P	Sealed to IP66
L	Large contact tips
T	Textured contact tips
M	Magnetically latched

HV500 high voltage

HV500 high voltage

ORDER CODE	CONTACTS	RATING	COIL	DUTY	A	NOTES	€
HV500AF-55	SPST NO	500 A	9–36 V		●	switching 500 V DC	182,00
HV500AF-47S	SPST NO	500 A	24 V		●	PWM coil · high-voltage DC	182,00
HV500F-21	SPST NO	500 A	24 V			PWM coil · switching up to 1000 V DC	163,00
HV500F-73S	SPST NO	500 A	48 V	INT		high-voltage DC	163,00
HV500AF-38	SPST NO	500 A	48 V		●	PWM coil · high-voltage DC	182,00
HV500	SPST NO	500 A				switching 500 V DC	168,00

HV500 · standard configurations – to order

ORDER CODE	CONTACTS	RATING	COIL	DUTY	A	NOTES	€
HV500F	SPST NO	500 A	6–96 V	CO / INT			163,00
HV500AF	SPST NO	500 A	6–96 V	CO / INT	●		182,00

Made to order, typically 4–7 weeks. Choose the coil – 6, 12, 24, 36, 48, 60, 72, 80 or 96 V DC – and the duty – CO or INT (PO and HO on request). AC versions, e.g. 230 V AC, are available with a rectifier board fitted – price on request. Albright assigns the full part number; special versions via the Albright application form.

High-current & busbar

High-current & busbar

ORDER CODE	CONTACTS	RATING	COIL	DUTY	A	M	NOTES	€
SW250-1016	SPST NO		24 V	CO			busbar contactor	61,00
SW1000-174	SPST NO		24 V	CO				539,00
SW560A-38M	SPST NO	600 A	24 V	INT	•	•	busbar contactor	202,00
SW260-82	SPST NO		36–48 V	HO				119,00

07 Albright International

Emergency disconnect switches

ED emergency disconnect · SD emergency stop

Manual emergency disconnect (“panic”) switches for battery-powered vehicles and machines, with mushroom push button and optional key lock, magnetic blowouts and auxiliary contacts.



RATING	VOLTAGE	POLES	OPTIONS
80 – 400 A	48 – 150 V DC	single · double	key lock · aux.

Prices in EUR excl. VAT. Prices are indicative, per one unit (1 pc), and subject to change. Prices marked “ask”: **request a quote**. Listed codes are stock models unless marked “to order”; other Albright part numbers 4–7 weeks.

OPTIONS (● = FITTED)

- **A** Auxiliary contacts
- **B** Magnetic blowouts
- **K** Key lock

ED emergency disconnect

ED emergency disconnect

ORDER CODE	CONTACTS	RATING	A	B	K	NOTES	€
ED80-1	SP	80 A				max. 48 V	48,50
ED125-4	SP	125 A				max. 48 V	48,00
ED125-34	SP	125 A				max. 48 V	48,00
ED125B-4	SP	125 A		●		max. 96 V	53,00
ED125LB-4	SP	125 A		●	●	max. 96 V	84,00
ED250B-1	SP	250 A		●		max. 96 V	67,00
ED250B-4	SP	250 A		●		max. 96 V	67,00
ED250LB-1	SP	250 A		●	●	max. 96 V	96,00
ED250LB-4	SP	250 A		●	●	max. 96 V	96,00
ED252-1	DP	250 A				max. 96 V	87,00
ED252A-2	DP	250 A	●			max. 96 V	116,00
ED252B-1	DP	250 A		●		max. 150 V	91,00
ED252L-1	DP	250 A			●	max. 96 V	119,00
ED300-5	DP	300 A				max. 48 V	80,00
ED300B-1	DP	300 A		●		max. 96 V	85,00
ED300B-5	DP	300 A		●		max. 96 V	85,00
ED402-1	DP	400 A				max. 96 V	269,00
ED402L-2	DP	400 A			●	max. 96 V	304,00

SD emergency stop

SD emergency stop

ORDER CODE	CONTACTS	RATING	A	B	NOTES	€
SD150A-2	SP		●		max. 48 V · coil-operated emergency stop	120,00

SD200AB-34	SP	200 A	• •	max. 48 V · coil-operated emergency stop	114,00
SD300AB-84	SP	300 A	• •	max. 24 V · coil-operated emergency stop	157,00

Rating and voltage at a glance

Emergency switches: current and maximum voltage

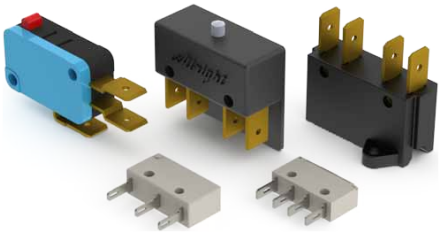


Each dot is a rating / maximum-voltage combination offered in the catalogue. Higher system voltage needs the B version (magnetic blowouts) or a double-pole type; the letter L means key lock.

08 Albright International

Spare parts & accessories

Auxiliary micro-switches · Contact kits · Contacts, studs & link bars · Top covers & dust shields · Coils & coil packs · Springs, hardware & magnets · Mounting brackets · Rectifier kits · Coil economisers & latching controllers · Emergency switch parts



Genuine Albright spare contacts, contact kits, top covers, springs, coils, auxiliary micro-switches and mounting brackets for servicing stud contactors, plus coil economisers and latching controllers. Parts marked “to order” are not in our stock – typically 4–7 weeks, indicative prices. Not on the list? Send us the part number. P-type (IP66) contactors are not serviceable.

CONTACTS	COVERS	COILS	AUX.
kits · fixed · moving	top covers · shields	magframe · packs	micro-switches

Prices in EUR excl. VAT. Prices are indicative, per one unit (1 pc), and subject to change. Prices marked “ask”: **request a quote**. Listed codes are stock models unless marked “to order”; other Albright part numbers 4–7 weeks.

Auxiliary micro-switches

Auxiliary micro-switches

ORDER CODE	NOTES	€
2070-124	Auxiliary Micro-Switch for SW80/SU80 Solenoid	32,50
2070-124A	Auxiliary Micro-switch for SW85A solenoid caps (not sealed types) · to order	40,00
2070-124B	SW80 Auxiliary Micro-switch with gold contacts · to order	65,00
2155-202	Auxiliary Micro-switch Kit for SW200 · SW201 · SW202 contactor caps · to order	40,00
2155-352	Auxiliary Micro-switch Kit for SU280 contactor caps · to order	40,00
2180-82	Auxiliary Micro-switch for SW120A solenoid caps · to order	40,00
2180-172	Auxiliary Micro-switch for SW190A solenoid caps · to order	40,00
2180-796	Auxiliary Micro-switch for SW180 · SW182 contactor caps · to order	40,00
2180-796A	SW180 Auxiliary Micro-switch with gold contacts · to order	65,00
3060-401	Auxiliary Replacement Switch for SW60A and SU60A contactors · to order	15,00
3061-105	Auxiliary Replacement V4 Switch for SW60C and SU60C contactors · to order	16,00

Contact kits

Contact kits

ORDER CODE	NOTES	€
2070-55	SW85 Series Contact Kit - Large Tips · to order	30,00
2070-57	SW80 Series Contact Kit (Full Repair KIT)	25,90
2070-90	SW82 Series Contact Kit · to order	45,00
2070-90A	SW82L Series Contact Kit - Large Tips · to order	50,00
2070-151	SW88 Series Contact Kit · to order	75,00

ORDER CODE	NOTES	€
2070-193	SW84 Series Contact Kit · to order	45,00
2070-194	SW80L Series Contact Kit - Large Tips · to order	30,00
2070-221	SW84L Series Contact Kit - Large Tips · to order	80,00
2070-222	SW88L Series Contact Kit - Large Tips · to order	100,00
2070-388	SW85 Series Contact Kit · to order	25,00
2072-421	SU80 Series Contact Kit · to order	35,00
2155-99	SW200 Series (Spare Contacts / Repair Kit)	59,99
2155-136	SW202 Series Contact Kit · to order	220,00
2155-250	SW201 Series Contact Kit · to order	85,00
2155-597	Textured Tip SW201 Series Contact Kit · to order	85,00
2155-598	SW202T Textured Tip Series Contact Kit · to order	230,00
2156-184	SU280 Solenoid Contact Repair Kit · to order	60,00
2159-170	SW120 Series Contact Kit · to order	40,00
2180-27	SW180 Moving Contact - Repair Kit	45,00
2180-42	SW180 Series Contact Kit	26,00
2180-42A	SW180L Series Contact Kit - Large Tips · to order	40,00
2180-42B	Spares Kit (contacts)	49,00
2180-43	SW181 Series Contact Kit · to order	55,00
2180-43A	SW181L Series Contact Kit - Large Tips · to order	85,00
2180-44	SW182 Series Contact Kit · to order	130,00
2180-44A	SW182L Series Contact Kit - Large Tips · to order	170,00
2180-102	SW180 Fixed Contact - Spares Kit	19,99
2180-362	SW190 Series Contact Kit · to order	60,00
2180-595	SW185 Series Contact Kit · to order	25,00
2180-596	SW185 Series Contact Kit With Large Tips · to order	35,00
2180-839	DC182 Only Contact Kit · to order	150,00
2180-839A	DC182B Only Contact Kit · to order	160,00
2180-884	SW181 Series Textured Tip Contact Kit · to order	60,00
2180-966	SW182T Series Textured Tip Contact Kit · to order	160,00
2181-36	DC182T Only Contact Kit · to order	160,00
2181-36A	DC182BT Only Contact Kit · to order	160,00
2182-919	RU280 Solenoid Contact Repair Kit · to order	45,00

Contacts, studs & link bars

Contacts, studs & link bars

ORDER CODE	NOTES	€
1500-12	SU80 Moving Contact Assembly · to order	19,00
2070-13	SW80 Moving Contact Assembly · to order	13,00
2070-14	Double-acting Moving Contact Assembly · fits SW84 · SW88 · to order	19,00
2070-14C	Double-acting Moving Contact Assembly - Large Tip · fits SW84 · SW88 · to order	25,00
2070-14J	Double-acting Moving Contact Assembly · fits DC88 · to order	25,00
2070-28	Top Straight Copper Link Bar · fits SW88 · to order	4,00
2070-29	Top Cranked Copper Link Bar · fits SW88 · to order	8,00
2070-46	Single Fixed Contact Stud · fits SW80 · SU80 · SW82 · SW84 · SW85 · SW88 · SW822 · to order	7,00

ORDER CODE	NOTES	€
2070-47	Single Normally Closed Short Fixed Bar Contact · fits SW84 · SW88 · to order	11,00
2070-48	Double Normally Closed Long Fixed Bar Contact · fits SW88 · to order	15,00
2070-71	SW82 and SW822 Moving Contact · to order	12,00
2070-72	SW82 Moving Copper Contacts and Holder · to order	17,00
2070-72B	Moving Contact Holder · fits SW82 · SW822 · to order	13,00
2070-84	SW82L and SW822L Moving Contact - Large Tip · to order	15,00
2070-85	Single Fixed Contact Stud - Large Tip · fits SW80 · SU80 · SW82 · SW84 · SW85 · SW88 · SW822 · to order	10,00
2070-88	SW80L Series Moving Contact Assembly - Large Tip · to order	19,00
2070-178	Moving Contact - Large Tip · fits SW85 · to order	15,00
2070-326	Double Normally Closed Long Fixed Bar Contact · fits DC88 · to order	13,00
2070-360A	DC88 Solenoid Top Cover Contacts · to order	45,00
2070-360C	DC88B Solenoid Top Cover Contacts · to order	45,00
2070-360DN	DC92 Monoblock Solenoid Top Cover Contacts · to order	35,00
2070-360DR	DC92B Solenoid Top Cover Contacts with Blowouts · to order	45,00
2155-19	SW200 Series fixed contact (1x spare contact)	21,00
2155-20R	SW200AN Enclosed Cover - Fixed Contacts - Auxiliary Fittings and Without Blowouts · to order	85,00
2155-20S	SW202AN Enclosed Cover - Fixed Contacts - Auxiliary Fittings and Without Blowouts · to order	85,00
2155-23	SW200 Moving Contact Assembly	45,00
2155-23A	Double-acting Moving Contact Assembly · fits SW201 · SW202 · to order	55,00
2155-43	Single Normally Closed Short Fixed Bar Contact · fits SW201 · SW202 · to order	14,00
2155-48	Top Cranked Copper Link Bar · fits SW202 · to order	10,00
2155-50	Top Straight Copper Link Bar · fits SW202 · to order	9,00
2155-64	Double Normally Closed Long Fixed Bar Contact · fits SW202 · to order	35,00
2155-549	Double-acting Textured Tip Moving Contact · fits SW201 · SW202 · to order	60,00
2155-587	SU280 Moving Contact Assembly · to order	25,00
2155-594	Single Fixed Textured Tip Contact Stud · fits SW200 · SW201 · SW202 · to order	19,00
2155-595	Single Normally Closed Short Bar Textured Tip Contact · fits SW201 · SW202 · to order	15,00
2155-596	SW202T Long Bar Normally Closed Textured Tip Contact · to order	40,00
2155-657	SW200T Moving Contact - Textured Tip · to order	40,00
2155-812	Single Fixed Contact Stud · fits SU280 · to order	25,00
2159-18B	Single Fixed Contact Stud · fits SW120 · SW122 · to order	9,00
2180-19	SW185 Moving Copper Contact with Large Silver Tips · to order	17,00
2180-26	Single Fixed Contact Stud - Large Tip · fits SW180 · SW181 · SW182 · SW185 · SW190 · SW192 · to order	11,00
2180-28	SW180L Moving Contact Assembly - Large Tip · to order	25,00
2180-29	Double-acting Moving Contact Assembly · fits SW181 · SW182 · DC182 · to order	30,00
2180-30	Double-acting Moving Contact Assembly - Large Tip · fits SW181 · SW182 · DC182 · to order	50,00
2180-31	Single Normally Closed Short Fixed Bar Contact · fits SW181 · SW182 · to order	10,00
2180-33	Double Normally Closed Long Fixed Bar Contact · fits SW182 · to order	20,00
2180-36	Top Straight Copper Link Bar · fits SW182 · to order	8,00
2180-37	Top Cranked Copper Link Bar · fits SW182 · to order	8,00
2180-62	SW120 and SW122 Moving Contacts and Holder · to order	30,00
2180-102A	Single 13mm Longer Fixed Contact Stud · fits SW180 · SW181 · SW182 · SW190 · SW192 · to order	14,00
2180-166	SW190 and SW192 Moving Contacts and Holder · to order	30,00
2180-270C	DC182 Solenoid Top Cover Contacts · to order	70,00
2180-270D	DC182L Solenoid Top Cover Contacts · to order	70,00
2180-270HA	DC182 Solenoid Top Cover Contacts · to order	70,00
2180-325	Normally Closed Fixed Bar Contact · fits DC182 · to order	18,00

ORDER CODE	NOTES	€
2180-379	Normally Closed Extended Fixed Bar Contact · fits DC182 · to order	30,00
2180-804	Double-acting Textured Tip Moving Contact · fits SW181 · SW182 · DC182 · to order	35,00
2180-821	Normally Closed Fixed Bar Contact - Textured · fits DC182 · to order	19,00
2180-822	Single Normally Closed Short Bar Textured Tip Contact · fits SW181 · SW182 · to order	11,00
2180-883	Single Fixed Textured Tip Contact Stud · fits SW180 · SW181 · SW182 · SW185 · SW190 · SW192 · to order	9,00
2180-900	Normally Closed Long Bar Textured Tip Contact · fits SW182 · to order	40,00
2182-917	Single Fixed Contact Stud · fits RU280 · to order	16,00
2182-918	RU280 Moving Contact Assembly · to order	18,00

Top covers & dust shields

Top covers & dust shields

ORDER CODE	NOTES	€
2070-4	SW80 Series Contactor Top Cover · to order	11,00
2070-4A	SW84 and SW88 Series Contactor Top Cover · to order	11,00
2070-4B	SW85A Top Cover - With Auxiliary Facility · to order	19,00
2070-4D	SW80 Series Contactor Top Cover Enclosed · to order	15,00
2070-4E	SW84 and SW88 Contactor Enclosed Top Cover · to order	15,00
2070-21	SW84 and SW88 Series Top Cover Insulator · to order	6,00
2070-58	SW80B Top Cover - With Magnetic Blowouts · to order	19,00
2070-58A	SW84B and SW88B Top Cover - With Magnetic Blowouts · to order	19,00
2070-58B	SW80A Top Cover - With Auxiliary Facility · to order	19,00
2070-58C	SW84A and SW88A Top Cover - With Auxiliary Facility · to order	19,00
2070-58D	SW80AB Top Cover - Blowouts and Auxiliary · to order	20,00
2070-58E	SW84AB and SW88AB Top Cover - Blowouts and Auxiliary · to order	20,00
2070-58F	SW80B Enclosed Top Cover - With Magnetic Blowouts · to order	25,00
2070-58G	SW84B and SW88B Enclosed Top Cover - Magnetic Blowouts · to order	25,00
2070-58H	SW80A Enclosed Top Cover - With Auxiliary Facility · to order	25,00
2070-58J	SW84A and SW88A Enclosed Top Cover - With Auxiliary Facility · to order	25,00
2070-58K	SW80AB Enclosed Top Cover - Blowouts and Auxiliary · to order	25,00
2070-58L	SW84AB and SW88AB Enclosed Top Cover - Blowouts and Auxiliary · to order	25,00
2070-75	SW82, SW822 Top Cover Dust Shield	1,50
2070-402	DC88 Top Cover Dust Shield · to order	1,50
2155-2	SW200 Series Top Cover Insulator Base · to order	11,00
2155-3	SW200N Top Cover - Without Magnetic Blowouts · to order	18,00
2155-3A	SW202N and SW201N Top Cover - Without Magnetic Blowouts · to order	18,00
2155-3C	SW200AN Top Cover - Without Blowouts - With Auxiliary · to order	19,00
2155-3D	SW202AN Top Cover - Without Blowouts - With Auxiliary · to order	40,00
2155-3J	SW200N Top Cover Moulding Enclosed - Optional · to order	20,00
2155-3K	SW202N Top Cover Moulding Enclosed - Optional · to order	20,00
2155-3L	SW200AN Top Cover Moulding Enclosed - Optional · to order	45,00
2155-3M	SW202AN Top Cover Moulding Enclosed - Optional · to order	45,00
2155-20	SW200 Series Contactor Top Cover with Fixed Contacts · to order	65,00
2155-20A	SW202 Series Contactor Top Cover with Fixed Contacts · to order	65,00
2155-20AA	SW200 Top Cover Enclosed With fixed Contacts · to order	70,00

ORDER CODE	NOTES	€
2155-20AB	SW202 Top Cover Enclosed With fixed Contacts · to order	70,00
2155-20AC	SW200A Enclosed Top Cover with Fixed Contacts and Auxiliary Fittings · to order	85,00
2155-20AD	SW202A Enclosed Top Cover with Fixed Contacts and Auxiliary Fittings · to order	85,00
2155-20C	SW200A Top Cover with Fixed Contacts and Auxiliary Fittings · to order	80,00
2155-20D	SW200N Top Cover with Fixed Contacts - Without Blowouts · to order	60,00
2155-20E	SW200AN Top Cover with Fixed Contacts and Auxiliary Fittings - Without Blowouts · to order	85,00
2155-20F	SW202AN Top Cover with Fixed Contacts and Auxiliary Fittings - Without Blowouts · to order	85,00
2155-20G	SW202N Top Cover with Fixed Contacts - Without Blowouts · to order	60,00
2155-20H	SW202A Top Cover with Fixed Contacts and Auxiliary Fittings · to order	80,00
2155-20N	SW200N Enclosed Top Cover with Fixed Contacts - Without Blowouts · to order	65,00
2155-20P	SW202N Enclosed Top Cover with Fixed Contacts - Without Blowouts · to order	65,00
2155-65	SW200 Series Contactor Top Cover · to order	25,00
2155-65A	SW202 and SW201 Contactor Top Cover · to order	25,00
2155-65B	SW200A Top Cover - With Auxiliary Facility · to order	35,00
2155-65C	SW202A and SW201A Top Cover - With Auxiliary Facility · to order	35,00
2155-65F	SW202 Top Cover Moulding Enclosed - Optional · to order	30,00
2155-65G	SW200 Top Cover Moulding Enclosed - Optional · to order	30,00
2155-65R	SW200A Top Cover Moulding Enclosed - Optional · to order	35,00
2155-65S	SW202A Top Cover Moulding Enclosed - Optional · to order	35,00
2155-281	SW200 Series Solenoid End Cap · to order	3,00
2180-5	SW180 Series Contactor Top Cover · to order	11,00
2180-5A	SW181 and SW182 Series Contactor Top Cover · to order	11,00
2180-6	SW181 and SW182 Series Top Cover Insulator · to order	6,00
2180-25A	SW180B Top Cover - With Magnetic Blowouts · to order	25,00
2180-25B	SW181B and SW182B Top Cover - Magnetic Blowouts · to order	25,00
2180-25C	SW180AB Top Cover - Blowouts and Auxiliary · to order	25,00
2180-25D	SW181AB and SW182AB Top Cover - Blowouts and Auxiliary · to order	25,00
2180-25E	SW180A Top Cover - With Auxiliary Facility · to order	25,00
2180-25F	SW181A and SW182A Top Cover - With Auxiliary Facility · to order	25,00
2180-41A	SW181, SW182 Top Cover Dust Shield	1,60
2180-227	DC182 Series Top Cover Insulator Base · to order	4,00
2180-246	SW180 Series Solenoid End Cap · to order	2,50
2180-403	DC182 Top Cover Dust Shield · to order	1,50
2181-632	SU280 Series Contactor Top Cover · to order	15,00
2181-632A	SU280 Series Contactor Top Cover - Enclosed · to order	15,00
2181-632B	SU280A Contactor Top Cover With Auxiliary Facility · to order	16,00
2181-632C	SU280A Contactor Top Cover With Auxiliary Facility - Enclosed · to order	16,00
2181-674	SU280B Contactor Top Cover With Magnetic Blowouts · to order	16,00
2181-674A	SU280B Contactor Top Cover With Magnetic Blowouts - Enclosed · to order	16,00
2181-674D	SU280AB Contactor Top Cover - Auxiliary Facility and Blowouts - Enclosed · to order	17,00
2181-674E	SU280AB Contactor Top Cover - Auxiliary Facility and Blowouts · to order	17,00

Coils & coil packs

Coils & coil packs

ORDER CODE	NOTES	€
2070-20F	24V Single-acting Solenoid Magframe Coil - Continuous · fits SW82 · SW84 · to order	30,00
2155-53CA	Single-acting Solenoid Magframe Coil 96V Continuous · fits SW200 · SW202 · to order	75,00
2155-53DW	Single-acting Solenoid Magframe Coil 12V Continuous · fits SW200 · SW202 · to order	75,00
2155-53E	Single-acting Solenoid Magframe Coil 80V Intermittent · fits SW200 · SW202 · to order	75,00
2155-53F	Single-acting Solenoid Magframe Coil 72V Intermittent · fits SW200 · SW202 · to order	75,00
2155-53FA	Single-acting Solenoid Magframe Coil 72V Intermittent · fits SW200 · SW202 · to order	75,00
2155-53FF	Single-acting Solenoid Magframe Coil 48V Intermittent · fits SW200 · SW202 · to order	75,00
2155-53GE	Single-acting Solenoid Magframe Coil 36V Intermittent · fits SW200 · SW202 · to order	75,00
2155-53H	Single-acting Solenoid Magframe Coil 72V Continuous · fits SW200 · SW202 · to order	75,00
2155-53KY	Single-acting Solenoid Magframe Coil 24V Intermittent · fits SW200 · SW202 · to order	75,00
2155-53L	Single-acting Solenoid Magframe Coil 24V Continuous · fits SW200 · SW202 · to order	75,00
2155-53R	Single-acting Solenoid Magframe Coil 48V Continuous · fits SW200 · SW202 · to order	75,00
2155-53S	Single-acting Solenoid Magframe Coil 12V Intermittent · fits SW200 · SW202 · to order	75,00

Springs, hardware & magnets

Springs, hardware & magnets

ORDER CODE	NOTES	€
2028-30	SW180, SW181 and SW182 Moving Contact Return Spring · to order	3,00
2028-30AB	SW180, SW181 and SW182 Moving Contact Return Spring · to order	2,50
2028-30BA	SW180, SW181 and SW182 Moving Contact Return Spring · to order	2,50
2028-30H	SW180, SW181 and SW182 Moving Contact Return Spring · to order	3,00
2028-30J	SW180, SW181 and SW182 Moving Contact Return Spring · to order	3,00
2065-43	SW201 and SW202 Moving Contact Return Spring · to order	3,50
2065-43U	SW201 and SW202 Moving Contact Return Spring · to order	3,50
2065-156A	SW201 and SW202 Moving Contact Return Spring · to order	3,50
2070-15	Return Spring Insulator · fits SW82 · SW85 · SW822 · to order	3,00
2070-16	SW80, SW84 and SW88 Moving Contact Return Spring · to order	3,50
2070-16G	SW85 Moving Contact Return Spring · to order	3,50
2070-19	Top Cover Fixing Screw · fits most series · to order	3,00
2070-210	Hardware Kit - M8 · fits SW88 · to order	15,00
2155-7	Moving Contact Plunger · fits SW200 · SW201 · SW202 · to order	3,50
2155-16	Solenoid Top Cap Replacement Magnet · fits most series · to order	1,50
2155-22	Top Cover Fixing Screw · fits SW200 · SW201 · SW202 · to order	3,00
2155-66	SW200 M10 Full Nut · to order	1,00
2155-67	SW200 M10 Spring Washer · to order	1,00
2155-126	SW200 Series Moving Contact Return Spring · to order	3,50
2155-127	Solenoid Top Cap Magnet Retaining Spring · fits SW180 · SW181 · SW182 · SW185 · to order	1,00
2155-176	Top Cover Brass Screw Insert for Microswitches · fits most series · to order	1,50
2180-38	Top Cover Fixing Screw · fits most series · to order	2,50
2180-254	Hardware Kit - M8 · fits SW182 · to order	2,00

Mounting brackets



MOUNTING BRACKET

Mounting brackets		
ORDER CODE	NOTES	€
2028-551A	SW200 Solenoid Mounting Bracket · to order	4,50
2065-167A	Solenoid Mounting Bracket · fits SW180 · SW200 · SU280 · RU280 · to order	3,50
2070-40	SW80 / DC88 Solenoid L-Shape Mounting Bracket	2,99
2070-41	SW88, DC88 Solenoid Mounting Bracket	3,80
2070-983A	SW80 Solenoid Curved Mounting Bracket · to order	3,50
2071-428	SW80 and SU80 Solenoid DIN Rail Bracket · to order	3,50
2071-449	SW80 Solenoid Curved R57 Mounting Bracket · to order	8,00
2072-447	Pair of DC88 Solenoid Mounting Brackets · fits SW80 · SU80 · SW82 · SW85 · DC92 · to order	4,50
2126-48A	SW80 and SW82 Solenoid - Mounting Bracket	6,50
2155-56	SW202 Solenoid Mounting Bracket	5,70
2155-165	Large Solenoid L-Shape Mounting Bracket · fits most series · to order	3,50
2159-39	SW182 DC182 Solenoid Mounting Bracket · to order	7,00
2159-47	SW120, SW180 and SU280 Solenoid Mounting Bracket	2,80
2180-280AN	DC182 Coil Pack and Integral Bracket - 24V Intermittent · to order	70,00

Rectifier kits

Rectifier kits		
ORDER CODE	NOTES	€
2070-77AP	SW80 AC Drive Rectifier Kit - Flying Lead Version · to order	35,00
2070-77AR	SW180 and SW200 AC Rectifier Kit - Flying Lead Version · to order	40,00
2182-349	SW180 and SW200 AC Drive Rectifier Kit - 6.3mm Blade · to order	30,00

Coil economisers & latching controllers

Coil economisers & latching controllers		
ORDER CODE	NOTES	€
CC74H-2	60-96V PWM Coil Economiser Module · to order	85,00
CC74H-60	60V PWM Coil Economiser Module · to order	85,00
CC74H-72	72V PWM Coil Economiser Module · to order	85,00
CC74H-84	84V PWM Coil Economiser Module · to order	85,00
CC74H-96	96V PWM Coil Economiser Module · to order	85,00
CC74L-1	12-60V PWM Coil Economiser Module · to order	85,00
CC74L-12	12V PWM Coil Economiser Module · to order	85,00

ORDER CODE	NOTES	€
CC74L-24	24V PWM Coil Economiser Module · to order	85,00
CC74L-36	36V PWM Coil Economiser Module · to order	85,00
CC74L-48	48V PWM Coil Economiser Module · to order	85,00
ML52H-96	48-96V DC Magnetic Latching Contactor Controller · to order	85,00
ML52L-60	12-60V DC Magnetic Latching Contactor Controller · to order	85,00
ML53H-96	48-96V DC Magnetic Latching Contactor Controller · to order	85,00
ML53L-60	12-60V DC Magnetic Latching Contactor Controller · to order	85,00

Emergency switch parts

Emergency switch parts

ORDER CODE	NOTES	€
2070-177	Moving Copper Contact with Silver Tips · fits SW85 · to order	10,00
2180-18	ED250 Moving Copper Contact with Silver Tips · fits SW185 · to order	12,00
2200-65	Emergency Switch Auxiliary Contact Kit · to order	50,00
2450-54	Emergency Stop Switch Red Knob Hardware Kit · to order	15,00
2555-27	ED125A Emergency Switch Auxiliary Contact Kit · to order	45,00

09 Albright International

Part number index – to order

All known Albright part numbers · 4–7 weeks

Albright part numbers that are not in our stock range but can be ordered – typically 4–7 weeks. Rating, coil and duty are given for reference; Albright confirms the exact specification of every part number on order. Prices follow the type price of the series and options. Missing a part number? Send it to us – or describe your application on the Albright application form.

PART NUMBERS	DELIVERY	COILS	CUSTOM
SW · SU · DC · HV · ED · SD	4–7 weeks	6 – 96 V DC · AC	application form

Prices in EUR excl. VAT. Prices are indicative, per one unit (1 pc), and subject to change. Prices marked "ask": **request a quote**. Listed codes are stock models unless marked "to order"; other Albright part numbers 4–7 weeks.

CONTACTS

SPST NO	Single pole, single throw, normally open
SPST NC	Single pole, single throw, normally closed
SPDT	Single pole, double throw (changeover)
DPST NO	Double pole, single throw, normally open
2 × SPDT	Paired changeover – DC motor reversing

COIL DUTY (DUTY COLUMN)

CO	**Continuous** – 100 %, may stay energised permanently
PO	**Prolonged** – up to 90 %, max. 54 min on at a time
INT	**Intermittent** – up to 70 %, max. 15 min on at a time
HO	**Very intermittent** – up to 25 %, max. 3 min on at a time

RATING = interrupted / uninterrupted current (switching on load / carrying only). Shorter duty = stronger coil and return spring = better switching on load (motors, winches).

OPTIONS (● = FITTED)

A	Auxiliary contacts
B	Magnetic blowouts
C	V3 auxiliary contact
P	Sealed to IP66
L	Large contact tips
T	Textured contact tips
M	Magnetically latched

SW60 · SU60 · SW61 – SW68

PART NUMBER	CONTACTS	RATING	COIL	DUTY	OPT.	€
SW60-144P	SPST NO	80 A	8 V	CO	P	33,00
SW61-128	SPDT	80 A	8 V	INT		35,00
SU60-2001	SPST NO	100 A	12 V	CO		33,00
SU60-2005P	SPST NO	100 A	12 V	CO	P	36,00
SU60B-2001	SPST NO	100 A	12 V	CO	B	34,50
SU60B-2410P	SPST NO	100 A	12 V	CO	BP	37,00
SW60-2	SPST NO	80 A	12 V	CO		30,00
SW60-38P	SPST NO	80 A	12 V	CO	P	33,00
SW60-208	SPST NO	80 A	12 V	CO		30,00
SW60B-341	SPST NO	80 A	12 V	CO	B	31,50
SW60B-767	SPST NO	80 A	12 V	CO	B	31,50
SW61-2	SPDT	80 A	12 V	CO		35,00
SW61B-2	SPDT	80 A	12 V	CO	B	36,50
SW63-2	SPST NC	80 A	12 V	CO		31,50
SW63-153	SPST NC	80 A	12 V	CO		31,50
SW66-2	2×SPDT rev.	80 A	12 V	CO		85,00
SW68-2	DPST NO	80 A	12 V	CO		37,50
SW68-60P	DPST NO	80 A	12 V	CO	P	41,00
SW688-2	2×SPDT rev.	80 A	12 V	CO		78,00
SW60B-264	SPST NO	80 A	12 V	PO	B	31,50
SU60-2003	SPST NO	100 A	12 V	INT		33,00
SU60-2301P	SPST NO	100 A	12 V	INT	P	36,00
SU60B-2003	SPST NO	100 A	12 V	INT	B	34,50
SW60-1	SPST NO	80 A	12 V	INT		30,00

SW60-37P	SPST NO	80 A	12 V	INT	P	33,00
SW60-119MP	SPST NO	80 A	12 V	INT	PM	40,00
SW60A-19	SPST NO	80 A	12 V	INT	A	45,00
SW60B-1	SPST NO	80 A	12 V	INT	B	31,50
SW61-1	SPDT	80 A	12 V	INT		35,00
SW61-115	SPDT	80 A	12 V	INT		35,00
SW61B-1	SPDT	80 A	12 V	INT	B	36,50
SW63-1	SPST NC	80 A	12 V	INT		31,50
SW66-1	2×SPDT rev.	80 A	12 V	INT		85,00
SW66A-19	2×SPDT rev.	80 A	12 V	INT	A	112,00
SW68-1	DPST NO	80 A	12 V	INT		37,50
SW60-110	SPST NO	80 A	12 V	HO		30,00
SW688-1	2×SPDT rev.	80 A	12 V	HO		78,00
SU60-2071	SPST NO	100 A	14 V	CO		33,00
SU60A-2483	SPST NO	100 A	14 V	CO	A	47,00
SW60-446	SPST NO	80 A	14 V	CO		30,00
SW60-830	SPST NO	80 A	14 V	CO		30,00
SU60-2009	SPST NO	100 A	24 V	CO		33,00
SU60-2013P	SPST NO	100 A	24 V	CO	P	36,00
SU60-2126	SPST NO	100 A	24 V	CO		33,00
SU60-2278T	SPST NO	100 A	24 V	CO	T	33,00
SU60-2440	SPST NO	100 A	24 V	CO		33,00
SU60B-2009	SPST NO	100 A	24 V	CO	B	34,50
SW60-126	SPST NO	80 A	24 V	CO		30,00
SW60-180	SPST NO	80 A	24 V	CO		30,00
SW60-209	SPST NO	80 A	24 V	CO		30,00
SW60A-262	SPST NO	80 A	24 V	CO	A	45,00
SW60A-300	SPST NO	80 A	24 V	CO	A	45,00
SW60AB-22	SPST NO	80 A	24 V	CO	AB	46,50
SW60AB-232	SPST NO	80 A	24 V	CO	AB	46,50
SW60AB-451	SPST NO	80 A	24 V	CO	AB	46,50
SW60AB-587	SPST NO	80 A	24 V	CO	AB	46,50
SW60B-4	SPST NO	80 A	24 V	CO	B	31,50
SW60C-512	SPST NO	80 A	24 V	CO	C	35,50
SW61B-4	SPDT	80 A	24 V	CO	B	36,50
SW63-4	SPST NC	80 A	24 V	CO		31,50
SW63A-129	SPST NC	80 A	24 V	CO	A	45,00
SW66-4	2×SPDT rev.	80 A	24 V	CO		85,00
SW66-144	2×SPDT rev.	80 A	24 V	CO		85,00
SW68-4	DPST NO	80 A	24 V	CO		37,50
SW68-73P	DPST NO	80 A	24 V	CO	P	41,00
SW688-9	2×SPDT rev.	80 A	24 V	CO		78,00
SU60-2010	SPST NO	100 A	24 V	PO		33,00
SW60B-195	SPST NO	80 A	24 V	PO	B	31,50
SU60-2011	SPST NO	100 A	24 V	INT		33,00
SU60-2015P	SPST NO	100 A	24 V	INT	P	36,00
SU60-2339M	SPST NO	100 A	24 V	INT	M	51,00
SU60B-2011	SPST NO	100 A	24 V	INT	B	34,50
SW60-3	SPST NO	80 A	24 V	INT		30,00
SW60-39P	SPST NO	80 A	24 V	INT	P	33,00
SW60-172P	SPST NO	80 A	24 V	INT	P	33,00
SW60-236MP	SPST NO	80 A	24 V	INT	PM	40,00
SW60-309	SPST NO	80 A	24 V	INT		30,00
SW60A-283	SPST NO	80 A	24 V	INT	A	45,00
SW60B-3	SPST NO	80 A	24 V	INT	B	31,50
SW61-3	SPDT	80 A	24 V	INT		35,00
SW61-4	SPDT	80 A	24 V	INT		35,00
SW61-127	SPDT	80 A	24 V	INT		35,00
SW61B-3	SPDT	80 A	24 V	INT	B	36,50
SW63-3	SPST NC	80 A	24 V	INT		31,50
SW66-3	2×SPDT rev.	80 A	24 V	INT		85,00
SW68-3	DPST NO	80 A	24 V	INT		37,50
SW68-42P	DPST NO	80 A	24 V	INT	P	41,00
SW688-5P	2×SPDT rev.	80 A	24 V	INT	P	78,00
SW688-8	2×SPDT rev.	80 A	24 V	INT		78,00
SU60A-2228	SPST NO	100 A	24 V	HO	A	47,00
SW688-3	2×SPDT rev.	80 A	24 V	HO		78,00
SW68-45	DPST NO	80 A	27 V	CO		37,50
SW60-164	SPST NO	80 A	28 V	CO		30,00
SW63-101	SPST NC	80 A	30 V	CO		31,50
SW60-103	SPST NO	80 A	30 V	INT		30,00
SW63-100	SPST NC	80 A	30 V	INT		31,50
SU60-2021P	SPST NO	100 A	36 V	CO	P	36,00
SW60-6	SPST NO	80 A	36 V	CO		30,00
SW60-782P	SPST NO	80 A	36 V	CO	P	33,00
SW60B-6	SPST NO	80 A	36 V	CO	B	31,50
SW61-6	SPDT	80 A	36 V	CO		35,00
SW61B-6	SPDT	80 A	36 V	CO	B	36,50
SW63-6	SPST NC	80 A	36 V	CO		31,50
SW60-440	SPST NO	80 A	36 V	PO		30,00
SU60-TBC9	SPST NO	100 A	36 V	INT	PT	33,00
SW60-5	SPST NO	80 A	36 V	INT		30,00
SW60-261	SPST NO	80 A	36 V	INT		30,00
SW60B-5	SPST NO	80 A	36 V	INT	B	31,50
SW60B-261	SPST NO	80 A	36 V	INT	B	31,50
SW61-5	SPDT	80 A	36 V	INT		35,00
SW61B-5	SPDT	80 A	36 V	INT	B	36,50
SW63-5	SPST NC	80 A	36 V	INT		31,50
SU60-2029P	SPST NO	100 A	48 V	CO	P	36,00
SU60-2171	SPST NO	100 A	48 V	CO		33,00
SU60B-2025	SPST NO	100 A	48 V	CO	B	34,50
SU60B-2171	SPST NO	100 A	48 V	CO	B	34,50
SU60B-2381	SPST NO	100 A	48 V	CO	B	34,50
SW60-8	SPST NO	80 A	48 V	CO		30,00
SW60-120P	SPST NO	80 A	48 V	CO	P	33,00
SW60-406P	SPST NO	80 A	48 V	CO	P	33,00
SW61-8	SPDT	80 A	48 V	CO		35,00
SW61B-8	SPDT	80 A	48 V	CO	B	36,50
SW63-8	SPST NC	80 A	48 V	CO		31,50
SW63-143	SPST NC	80 A	48 V	CO		31,50
SW63B-143	SPST NC	80 A	48 V	CO	B	33,00
SW68-8	DPST NO	80 A	48 V	CO		37,50
SW688-4	2×SPDT rev.	80 A	48 V	CO		78,00
SU60-2439P	SPST NO	100 A	48 V	PO	P	36,00
SW60-431	SPST NO	80 A	48 V	PO		30,00
SU60-2031P	SPST NO	100 A	48 V	INT	P	36,00
SU60-2085	SPST NO	100 A	48 V	INT		33,00
SU60B-2085	SPST NO	100 A	48 V	INT	B	34,50
SW60-7	SPST NO	80 A	48 V	INT		30,00
SW61-7	SPDT	80 A	48 V	INT		35,00
SW61B-7	SPDT	80 A	48 V	INT	B	36,50
SW63-7	SPST NC	80 A	48 V	INT		31,50
SW60-626	SPST NO	80 A	48 V	HO		30,00
SW60B-626	SPST NO	80 A	48 V	HO	B	31,50
SU60B-2441	SPST NO	100 A	54 V	CO	B	34,50
SU60AB-2327	SPST NO	100 A	60 V	CO	AB	48,50
SW60-631P	SPST NO	80 A	60 V	CO	P	33,00
SW63-10	SPST NC	80 A	60 V	CO		31,50
SW63-9	SPST NC	80 A	60 V	INT		31,50
SU60-2355	SPST NO	100 A	72 V	CO		33,00
SU60-2499P	SPST NO	100 A	72-80 V	CO	P	36,00
SU60B-2355	SPST NO	100 A	72 V	CO	B	34,50
SW61-12	SPDT	80 A	72 V	CO		35,00
SW61B-12	SPDT	80 A	72 V	CO	B	36,50
SW63-12	SPST NC	80 A	72 V	CO		31,50
SW68-12	DPST NO	80 A	72 V	CO		37,50
SW68-63P	DPST NO	80 A	72 V	CO	P	41,00
SU60-2083	SPST NO	100 A	72 V	INT		33,00
SU60B-2083	SPST NO	100 A	72 V	INT	B	34,50
SW61-11	SPDT	80 A	72 V	INT		35,00

SW61B-11	SPDT	80 A	72 V	INT	B	36,50
SW63-11	SPST NC	80 A	72 V	INT		31,50
SU60B-2049	SPST NO	100 A	80 V	CO	B	34,50
SU60B-2241P	SPST NO	100 A	80 V	CO	BP	37,00
SW60B-274	SPST NO	80 A	80 V	CO	B	31,50
SW60B-336	SPST NO	80 A	80 V	CO	B	31,50
SW61-14	SPDT	80 A	80 V	CO		35,00
SW61B-14	SPDT	80 A	80 V	CO	B	36,50
SW63-14	SPST NC	80 A	80 V	CO		31,50
SW68-14	DPST NO	80 A	80 V	CO		37,50
SU60B-2276L	SPST NO	100 A	80 V	INT	BL	42,00
SW61-13	SPDT	80 A	80 V	INT		35,00
SW61B-13	SPDT	80 A	80 V	INT	B	36,50
SW63-13	SPST NC	80 A	80 V	INT		31,50
SW66B-13	2×SPDT rev.	80 A	80 V	INT	B	88,00
SW60B-225	SPST NO	80 A	110 V	INT	B	31,50

SW80 · SW82 · SW84 · SW85 · SW88 · SW822

PART NUMBER	CONTACTS	RATING	COIL	DUTY	OPT.	€
SW80-5	SPST NO	100/125 A	12 V	CO		50,00
SW80-358	SPST NO	100/125 A	12 V	CO		50,00
SW80-1277P	SPST NO	100/125 A	12 V	CO	P	60,00
SW80A-1446	SPST NO	100/125 A	12 V	CO	A	72,00
SW80B-5	SPST NO	100/125 A	12 V	CO	B	55,00
SW80B-35	SPST NO	100/125 A	12 V	CO	B	55,00
SW82-2	DPST NO	100 A	12 V	CO		65,00
SW82-89P	DPST NO	100 A	12 V	CO	P	75,00
SW82-246	DPST NO	100 A	12 V	CO		65,00
SW84-2	SPDT	100/125 A	12 V	CO		93,00
SW84B-2	SPDT	100/125 A	12 V	CO	B	99,00
SW85-171	SPST NC	100 A	12 V	CO		58,00
SW88-2	2×SPDT rev.	100 A	12 V	CO		99,00
SW88-69	2×SPDT rev.	100 A	12 V	CO		99,00
SW88B-2	2×SPDT rev.	100 A	12 V	CO	B	105,00
SW822-2	2×SPDT rev.	100 A	12 V	CO		153,00
SW822-50P	2×SPDT rev.	100 A	12 V	CO	P	175,00
SW80-56	SPST NO	100/125 A	12 V	INT		50,00
SW80-324	SPST NO	100/125 A	12 V	INT		50,00
SW80-475PL	SPST NO	100/125 A	12 V	INT	PL	67,00
SW80-751PE	SPST NO	100/125 A	12 V	INT	P	55,00
SW80-762P	SPST NO	100/125 A	12 V	INT	P	60,00
SW80-1268P	SPST NO	100/125 A	12 V	INT	P	60,00
SW80-1600P	SPST NO	100/125 A	12 V	INT	P	60,00
SW80B-3	SPST NO	100/125 A	12 V	INT	B	55,00
SW80B-56	SPST NO	100/125 A	12 V	INT	B	55,00
SW80B-171	SPST NO	100/125 A	12 V	INT	B	55,00
SW82-203P	DPST NO	100 A	12 V	INT	P	75,00
SW84-3	SPDT	100/125 A	12 V	INT		93,00
SW84-261	SPDT	100/125 A	12 V	INT		93,00
SW84A-14	SPDT	100/125 A	12 V	INT	A	121,00
SW84B-3	SPDT	100/125 A	12 V	INT	B	99,00
SW85-37	SPST NC	100 A	12 V	INT		58,00
SW88-34	2×SPDT rev.	100 A	12 V	INT		99,00
SW88-117	2×SPDT rev.	100 A	12 V	INT		99,00
SW88-125L	2×SPDT rev.	100 A	12 V	INT	L	111,00
SW92-12	2×SPST NO	100 A	12 V	INT		102,00
SW822-1	2×SPDT rev.	100 A	12 V	INT		153,00
SW822-39	2×SPDT rev.	100 A	12 V	INT		153,00
SW822-47P	2×SPDT rev.	100 A	12 V	INT	P	175,00
SW80-535P	SPST NO	100/125 A	14 V	CO	P	60,00
SW80-1301P	SPST NO	100/125 A	14 V	CO	P	60,00
SW82-239	DPST NO	100 A	14 V	CO		65,00
SW80-104	SPST NO	100/125 A	24 V	CO		50,00
SW80-441	SPST NO	100/125 A	24 V	CO		50,00
SW80-766P	SPST NO	100/125 A	24 V	CO	P	60,00
SW80-932PT	SPST NO	100/125 A	24 V	CO	PT	60,00
SW80-1478PT	SPST NO	100/125 A	24 V	CO	PT	60,00
SW80-1764	SPST NO	100/125 A	24 V	CO		50,00
SW80-1907	SPST NO	100/125 A	24 V	CO		50,00
SW80-1930L	SPST NO	100/125 A	24 V	CO	L	58,00
SW80A-19	SPST NO	100/125 A	24 V	CO	A	72,00
SW80A-2292	SPST NO	100/125 A	24 V	CO	A	72,00
SW80AB-182	SPST NO	100/125 A	24 V	CO	AB	76,00
SW80AB-1944	SPST NO	100/125 A	24 V	CO	AB	76,00
SW80AB-2180	SPST NO	100/125 A	24 V	CO	AB	76,00
SW80B-105	SPST NO	100/125 A	24 V	CO	B	55,00
SW80B-290L	SPST NO	100/125 A	24 V	CO	BL	63,00
SW80B-1764	SPST NO	100/125 A	24 V	CO	B	55,00
SW82-31	DPST NO	100 A	24 V	CO		65,00
SW82-90P	DPST NO	100 A	24 V	CO	P	75,00
SW82-250T	DPST NO	100 A	24 V	CO	T	65,00
SW82-256	DPST NO	100 A	24 V	CO		65,00
SW84-94	SPDT	100/125 A	24 V	CO		93,00
SW84-129	SPDT	100/125 A	24 V	CO		93,00
SW84-238T	SPDT	100/125 A	24 V	CO	T	93,00
SW85-2	SPST NC	100 A	24 V	CO		58,00
SW85-178P	SPST NC	100 A	24 V	CO	P	70,00
SW88-4	2×SPDT rev.	100 A	24 V	CO		99,00
SW88B-4	2×SPDT rev.	100 A	24 V	CO	B	105,00
SW120A-31	DPST NO	125 A	24 V	CO	A	130,00
SW822-4	2×SPDT rev.	100 A	24 V	CO		153,00
SW822-54P	2×SPDT rev.	100 A	24 V	CO	P	175,00
SW80-307	SPST NO	100/125 A	24 V	PO		50,00
SW80AB-1894	SPST NO	100/125 A	24 V	PO	AB	76,00
SW84B-182T	SPDT	100/125 A	24 V	PO	BT	99,00
SW80-4	SPST NO	100/125 A	24 V	INT		50,00
SW80-64	SPST NO	100/125 A	24 V	INT		50,00
SW80-97	SPST NO	100/125 A	24 V	INT		50,00
SW80-491	SPST NO	100/125 A	24 V	INT		50,00
SW80-763P	SPST NO	100/125 A	24 V	INT	P	60,00
SW80-823PE	SPST NO	100/125 A	24 V	INT	P	55,00
SW80-832PL	SPST NO	100/125 A	24 V	INT	PL	67,00
SW80-837P	SPST NO	100/125 A	24 V	INT	P	60,00
SW80-1135MP	SPST NO	100/125 A	24 V	INT	PM	66,00
SW80-1781L	SPST NO	100/125 A	24 V	INT	L	58,00
SW80-1994PE	SPST NO	100/125 A	24 V	INT	P	55,00
SW80B-1	SPST NO	100/125 A	24 V	INT	B	55,00
SW80B-4	SPST NO	100/125 A	24 V	INT	B	55,00
SW80B-548	SPST NO	100/125 A	24 V	INT	B	55,00
SW82-76P	DPST NO	100 A	24 V	INT	P	75,00
SW84-213	SPDT	100/125 A	24 V	INT		93,00
SW84-482	SPDT	100/125 A	24 V	INT		93,00
SW84B-1	SPDT	100/125 A	24 V	INT	B	99,00
SW84B-213	SPDT	100/125 A	24 V	INT	B	99,00
SW85-9	SPST NC	100 A	24 V	INT		58,00
SW85-278P	SPST NC	100 A	24 V	INT	P	70,00
SW88-118	2×SPDT rev.	100 A	24 V	INT		99,00
SW88-176	2×SPDT rev.	100 A	24 V	INT		99,00
SW88B-1	2×SPDT rev.	100 A	24 V	INT	B	105,00
SW88B-27	2×SPDT rev.	100 A	24 V	INT	B	105,00
SW822-3	2×SPDT rev.	100 A	24 V	INT		153,00
SW822-48P	2×SPDT rev.	100 A	24 V	INT	P	175,00
SW822-116L	2×SPDT rev.	100 A	24 V	INT	L	182,00

SW80-592	SPST NO	100/125 A	28 V	CO		50,00
SW80-945P	SPST NO	100/125 A	28 V	CO	P	60,00
SW82-14	DPST NO	100 A	28 V	CO		65,00
SW84-29	SPDT	100/125 A	28 V	CO		93,00
SW85-261	SPST NC	100 A	30 V	INT		58,00
SW80AB-976	SPST NO	100/125 A	33 V	CO	AB	76,00
SW80-8	SPST NO	100/125 A	36 V	CO		50,00
SW80-383P	SPST NO	100/125 A	36 V	CO	P	60,00
SW80-1858P	SPST NO	100/125 A	36 V	CO	P	60,00
SW82-6	DPST NO	100 A	36 V	CO		65,00
SW85-13	SPST NC	100 A	36 V	CO		58,00
SW822-6	2×SPDT rev.	100 A	36 V	CO		153,00
SW822-42P	2×SPDT rev.	100 A	36 V	CO	P	175,00
SW80-1147P	SPST NO	100/125 A	36 V	INT	P	60,00
SW80B-39	SPST NO	100/125 A	36-48 V	INT	B	55,00
SW82-5	DPST NO	100 A	36 V	INT		65,00
SW84-34	SPDT	100/125 A	36-48 V	INT		93,00
SW85-190	SPST NC	100 A	36 V	INT		58,00
SW822-5	2×SPDT rev.	100 A	36 V	INT		153,00
SW822-65P	2×SPDT rev.	100 A	36 V	INT	P	175,00
SW80B-638	SPST NO	100/125 A	37 V	CO	B	55,00
SW80-122	SPST NO	100/125 A	40 V	CO		50,00
SW822-37	2×SPDT rev.	100 A	40 V	CO		153,00
SW80-10	SPST NO	100/125 A	48 V	CO		50,00
SW80-106	SPST NO	100/125 A	48 V	CO		50,00
SW80-415P	SPST NO	100/125 A	48 V	CO	P	60,00
SW80-727P	SPST NO	100/125 A	48 V	CO	P	60,00
SW80-1420	SPST NO	100/125 A	48 V	CO		50,00
SW80-2404	SPST NO	100/125 A	48 V	CO		50,00
SW80A-23	SPST NO	100/125 A	48 V	CO	A	72,00
SW80B-106	SPST NO	100/125 A	48 V	CO	B	55,00
SW80B-1901	SPST NO	100/125 A	48 V	CO	B	55,00
SW80B-2192	SPST NO	100/125 A	48 V	CO	B	55,00
SW80B-2428	SPST NO	100/125 A	48 V	CO	B	55,00
SW82-8	DPST NO	100 A	48 V	CO		65,00
SW82-157P	DPST NO	100 A	48 V	CO	P	75,00
SW84-8	SPDT	100/125 A	48 V	CO		93,00
SW84B-8	SPDT	100/125 A	48 V	CO	B	99,00
SW85-17	SPST NC	100 A	48 V	CO		58,00
SW88B-8	2×SPDT rev.	100 A	48 V	CO	B	105,00
SW88B-93	2×SPDT rev.	100 A	48 V	CO	B	105,00
SW822-8	2×SPDT rev.	100 A	48 V	CO		153,00
SW822-52P	2×SPDT rev.	100 A	48 V	CO	P	175,00
SW80-2187P	SPST NO	100/125 A	48 V	PO	P	60,00
SW80B-337	SPST NO	100/125 A	48 V	PO	B	55,00
SW84B-181T	SPDT	100/125 A	48 V	PO	BT	99,00
SW84B-228T	SPDT	100/125 A	48 V	PO	BT	99,00
SW80-9	SPST NO	100/125 A	48 V	INT		50,00
SW80-167	SPST NO	100/125 A	48 V	INT		50,00
SW80-541P	SPST NO	100/125 A	48 V	INT	P	60,00
SW80B-9	SPST NO	100/125 A	48 V	INT	B	55,00
SW80B-167	SPST NO	100/125 A	48 V	INT	B	55,00
SW80B-552	SPST NO	100/125 A	48 V	INT	B	55,00
SW82-7	DPST NO	100 A	48 V	INT		65,00
SW82-156P	DPST NO	100 A	48 V	INT	P	75,00
SW84A-250	SPDT	100/125 A	48 V	INT	A	121,00
SW84B-7	SPDT	100/125 A	48 V	INT	B	99,00
SW85-50	SPST NC	100 A	48 V	INT		58,00
SW88B-7	2×SPDT rev.	100 A	48 V	INT	B	105,00
SW88B-28	2×SPDT rev.	100 A	48 V	INT	B	105,00
SW822-7	2×SPDT rev.	100 A	48 V	INT		153,00
SW822-94P	2×SPDT rev.	100 A	48 V	INT	P	175,00
SW80B-83	SPST NO	100/125 A	50 V	CO	B	55,00
SW80AB-617	SPST NO	100/125 A	52 V	CO	AB	76,00
SW80-1289P	SPST NO	100/125 A	54 V	PO	P	60,00
SW80-574	SPST NO	100/125 A	60 V	CO		50,00
SW80-1294	SPST NO	100/125 A	60 V	CO		50,00
SW80B-178	SPST NO	100/125 A	60 V	CO	B	55,00
SW82-10	DPST NO	100 A	60 V	CO		65,00
SW82-290	DPST NO	100 A	60 V	CO		65,00
SW85-315	SPST NC	100 A	60 V	CO		58,00
SW80-TBC60	SPST NO	100/125 A	60 V	INT	T	50,00
SW80-15	SPST NO	100/125 A	72 V	CO		50,00
SW80-62	SPST NO	100/125 A	72-80 V	CO		50,00
SW80-406	SPST NO	100/125 A	72-80 V	CO		50,00
SW80-494	SPST NO	100/125 A	72-80 V	CO		50,00
SW80-1763P	SPST NO	100/125 A	72 V	CO	P	60,00
SW80B-62	SPST NO	100/125 A	72-80 V	CO	B	55,00
SW80B-288	SPST NO	100/125 A	72-80 V	CO	B	55,00
SW80B-494	SPST NO	100/125 A	72-80 V	CO	B	55,00
SW82-12	DPST NO	100 A	72 V	CO		65,00
SW82-213P	DPST NO	100 A	72 V	CO	P	75,00
SW85-21	SPST NC	100 A	72 V	CO		58,00
SW88B-12	2×SPDT rev.	100 A	72 V	CO	B	105,00
SW822-12	2×SPDT rev.	100 A	72 V	CO		153,00
SW80-14	SPST NO	100/125 A	72 V	INT		50,00
SW80-TBC	SPST NO	100/125 A	72-80 V	INT	T	50,00
SW80B-14	SPST NO	100/125 A	72 V	INT	B	55,00
SW80B-1726	SPST NO	100/125 A	72-80 V	INT	B	55,00
SW80B-TBC	SPST NO	100/125 A	72-80 V	INT	BT	55,00
SW82-138	DPST NO	100 A	72 V	INT		65,00
SW88B-11	2×SPDT rev.	100 A	72 V	INT	B	105,00
SW82-13	DPST NO	100 A	80 V	CO		65,00
SW822-13	2×SPDT rev.	100 A	80 V	CO		153,00
SW80-645P	SPST NO	100/125 A	80 V	INT	P	60,00
SW80B-553	SPST NO	100/125 A	80 V	INT	B	55,00
SW82-115P	DPST NO	100 A	80 V	INT	P	75,00
SW82-134	DPST NO	100 A	80 V	INT		65,00
SW85AB-281	SPST NC	100 A	90 V	CO	AB	84,00
SW80B-70	SPST NO	100/125 A	96 V	CO	B	55,00
SW80-50	SPST NO	100/125 A	96-120 V	INT		50,00
SW80-111	SPST NO	100/125 A	110 V	CO		50,00
SW80-2116L	SPST NO	100/125 A	110 V	CO	L	58,00
SW80AB-612	SPST NO	100/125 A	110 V	CO	AB	76,00
SW80AB-1430	SPST NO	100/125 A	110 V	CO	AB	76,00
SW80AB-230	SPST NO	100/125 A	120 V	CO	AB	76,00
SW80B-484	SPST NO	100/125 A	220 V	CO	B	55,00
SW88-115	2×SPDT rev.	100 A	24 V AC	INT		99,00
SW80-81	SPST NO	100/125 A	240 V AC	CO		50,00
SW132AE-38	DPST NC		240 V AC	CO	A	177,00
SW822-70	2×SPDT rev.	100 A	240 V AC	CO		153,00

SW180 · SW181 · SW182 · SU80 · SW185 · SW190

PART NUMBER	CONTACTS	RATING	COIL	DUTY	OPT.	€
SU80-5000	SPST NO	150/200 A	12 V	CO		46,00
SU80-5062P	SPST NO	150/200 A	12 V	CO	P	54,00
SU80-5198	SPST NO	150/200 A	12 V	CO		46,00
SU80-5225	SPST NO	150/200 A	12 V	CO		46,00
SU80-5544	SPST NO	150/200 A	12 V	CO		46,00
SU80B-5000	SPST NO	150/200 A	12 V	CO	B	49,50
SU80B-5225	SPST NO	150/200 A	12 V	CO	B	49,50
SW180-2	SPST NO	150/200 A	12 V	CO		86,00

SW180-463	SPST NO	150/200 A	12 V	CO		86,00
SW180-533	SPST NO	150/200 A	12 V	CO		86,00
SW181-2	SPDT	150 A	12 V	CO		99,00
SW181B-2	SPDT	150 A	12 V	CO	B	103,00
SW182-2	2×SPDT rev.	150 A	12 V	CO		239,00
SW182B-24L	2×SPDT rev.	150 A	12 V	CO	BL	301,00
SW185-139	SPST NC	150 A	12 V	CO		103,00
SW185-205	SPST NC	150 A	12 V	CO		103,00
SU80-5002	SPST NO	150/200 A	12 V	INT		46,00
SU80-5161MP	SPST NO	150/200 A	12 V	INT	PM	68,00
SU80-5164MPL	SPST NO	150/200 A	12 V	INT	PLM	74,00
SU80-5175P	SPST NO	150/200 A	12 V	INT	P	54,00
SU80B-5002	SPST NO	150/200 A	12 V	INT	B	49,50
SW180-1	SPST NO	150/200 A	12 V	INT		86,00
SW180-461L	SPST NO	150/200 A	12 V	INT	L	115,00
SW180B-1	SPST NO	150/200 A	12 V	INT	B	91,00
SW181B-1	SPDT	150 A	12 V	INT	B	103,00
SW182-1	2×SPDT rev.	150 A	12 V	INT		239,00
SW182-306	2×SPDT rev.	150 A	12 V	INT		239,00
SW182B-1	2×SPDT rev.	150 A	12 V	INT	B	247,00
SW182B-23L	2×SPDT rev.	150 A	12 V	INT	BL	301,00
SW185-192	SPST NC	150 A	12 V	INT		103,00
SW190-265M	DPST NO	190 A	12 V	INT	M	125,00
SU80-5499	SPST NO	150/200 A	14 V	CO		46,00
SU80-5004	SPST NO	150/200 A	24 V	CO		46,00
SU80-5432	SPST NO	150/200 A	24 V	CO		46,00
SU80AB-5569	SPST NO	150/200 A	24 V	CO	AB	67,00
SU80B-5004	SPST NO	150/200 A	24 V	CO	B	49,50
SW180-140	SPST NO	150/200 A	24 V	CO		86,00
SW180-1104	SPST NO	150/200 A	24 V	CO		86,00
SW180-1176	SPST NO	150/200 A	24 V	CO		86,00
SW180A-1111	SPST NO	150/200 A	24 V	CO	A	106,00
SW180AB-1081	SPST NO	150/200 A	24 V	CO	AB	111,00
SW180B-646M	SPST NO	150/200 A	24 V	CO	BM	110,00
SW180C-1313	SPST NO	150/200 A	24 V	CO	C	91,00
SW181B-4	SPDT	150 A	24 V	CO	B	103,00
SW181B-187	SPDT	150 A	24 V	CO	B	103,00
SW182-4	2×SPDT rev.	150 A	24 V	CO		239,00
SW185-140	SPST NC	150 A	24 V	CO		103,00
SW185-197	SPST NC	150 A	24 V	CO		103,00
SW190A-48	DPST NO	190 A	24 V	CO	A	125,00
SW190A-345	DPST NO	190 A	24 V	CO	A	125,00
SW182-148	2×SPDT rev.	150 A	24 V	PO		239,00
SU80-5006	SPST NO	150/200 A	24 V	INT		46,00
SU80-5165MPL	SPST NO	150/200 A	24 V	INT	PLM	74,00
SU80-5170P	SPST NO	150/200 A	24 V	INT	P	54,00
SU80-5388MP	SPST NO	150/200 A	24 V	INT	PM	68,00
SU80B-5006	SPST NO	150/200 A	24 V	INT	B	49,50
SW180-106	SPST NO	150/200 A	24 V	INT		86,00
SW180-241	SPST NO	150/200 A	24 V	INT		86,00
SW180-536L	SPST NO	150/200 A	24 V	INT	L	115,00
SW180-677L	SPST NO	150/200 A	24 V	INT	L	115,00
SW180-1099	SPST NO	150/200 A	24-36 V	INT		86,00
SW180B-106	SPST NO	150/200 A	24 V	INT	B	91,00
SW180B-321	SPST NO	150/200 A	24 V	INT	B	91,00
SW180B-423	SPST NO	150/200 A	24 V	INT	B	91,00
SW181-3	SPDT	150 A	24 V	INT		99,00
SW181A-408	SPDT	150 A	24 V	INT	A	115,00
SW181B-3	SPDT	150 A	24 V	INT	B	103,00
SW181B-164	SPDT	150 A	24 V	INT	B	103,00
SW181B-186	SPDT	150 A	24 V	INT	B	103,00
SW182-3	2×SPDT rev.	150 A	24 V	INT		239,00
SW182B-3	2×SPDT rev.	150 A	24 V	INT	B	247,00
SW185-14	SPST NC	150 A	24 V	INT		103,00
SW185-16	SPST NC	150 A	24 V	INT		103,00
SU80-5576P	SPST NO	150/200 A	28 V	CO	P	54,00
SW180-89	SPST NO	150/200 A	28 V	CO		86,00
SW180B-90L	SPST NO	150/200 A	28 V	CO	BL	121,00
SW190-478	DPST NO	190 A	28 V	INT		107,00
SW190-508	DPST NO	190 A	28 V	INT		107,00
SW180-1211	SPST NO	150/200 A	30 V	INT		86,00
SU80-5315P	SPST NO	150/200 A	36 V	CO	P	54,00
SW185-38	SPST NC	150 A	36 V	CO		103,00
SW180-94L	SPST NO	150/200 A	36-48 V	INT	L	115,00
SW182-340	2×SPDT rev.	150 A	36 V	INT		239,00
SW182B-340	2×SPDT rev.	150 A	36 V	INT	B	247,00
SW180-402	SPST NO	150/200 A	45 V	INT		86,00
SU80-5016	SPST NO	150/200 A	48 V	CO		46,00
SU80B-5016	SPST NO	150/200 A	48 V	CO	B	49,50
SW180-8	SPST NO	150/200 A	48 V	CO		86,00
SW180AB-921	SPST NO	150/200 A	48 V	CO	AB	111,00
SW181B-8	SPDT	150 A	48 V	CO	B	103,00
SW182B-8	2×SPDT rev.	150 A	48 V	CO	B	247,00
SW185AB-66	SPST NC	150 A	48 V	CO	AB	126,00
SW190A-52	DPST NO	190 A	48 V	CO	A	125,00
SW180B-440	SPST NO	150/200 A	48 V	PO	B	91,00
SW182B-150	2×SPDT rev.	150 A	48 V	PO	B	247,00
SU80-5018	SPST NO	150/200 A	48 V	INT		46,00
SU80-5389MP	SPST NO	150/200 A	48 V	INT	PM	68,00
SU80B-5018	SPST NO	150/200 A	48 V	INT	B	49,50
SW180-7	SPST NO	150/200 A	48 V	INT		86,00
SW180B-7	SPST NO	150/200 A	48 V	INT	B	91,00
SW180B-29L	SPST NO	150/200 A	48 V	INT	BL	121,00
SW180B-361	SPST NO	150/200 A	48 V	INT	B	91,00
SW180B-541	SPST NO	150/200 A	48 V	INT	B	91,00
SW181-7	SPDT	150 A	48 V	INT		99,00
SW181B-7	SPDT	150 A	48 V	INT	B	103,00
SW182-7	2×SPDT rev.	150 A	48 V	INT		239,00
SW182B-7	2×SPDT rev.	150 A	48 V	INT	B	247,00
SW182B-299	2×SPDT rev.	150 A	48 V	INT	B	247,00
SU80-5242P	SPST NO	150/200 A	54 V	CO	P	54,00
SU80B-5261	SPST NO	150/200 A	54 V	CO	B	49,50
SW180-821	SPST NO	150/200 A	54 V	CO		86,00
SU80-5058M	SPST NO	150/200 A	60 V	INT	M	60,00
SU80-5063P	SPST NO	150/200 A	72 V	CO	P	54,00
SU80-5274	SPST NO	150/200 A	72 V	CO		46,00
SU80B-5274	SPST NO	150/200 A	72 V	CO	B	49,50
SW180-12	SPST NO	150/200 A	72 V	CO		86,00
SW180B-12	SPST NO	150/200 A	72 V	CO	B	91,00
SW181-16	SPDT	150 A	72-80 V	CO		99,00
SW181B-16	SPDT	150 A	72-80 V	CO	B	103,00
SW182B-12	2×SPDT rev.	150 A	72 V	CO	B	247,00
SW185-72	SPST NC	150 A	72 V	CO		103,00
SW181B-308T	SPDT	150 A	72 V	PO	BT	103,00
SU80-5275	SPST NO	150/200 A	72 V	INT		46,00
SU80B-5275	SPST NO	150/200 A	72 V	INT	B	49,50
SW180-11	SPST NO	150/200 A	72 V	INT		86,00
SW180B-11	SPST NO	150/200 A	72 V	INT	B	91,00
SW181-15	SPDT	150 A	72-80 V	INT		99,00
SW181B-15	SPDT	150 A	72-80 V	INT	B	103,00
SW182B-11	2×SPDT rev.	150 A	72 V	INT	B	247,00
SW182B-185L	2×SPDT rev.	150 A	72-80 V	INT	BL	301,00
SW182B-316	2×SPDT rev.	150 A	72-80 V	INT	B	247,00
SU80-5169P	SPST NO	150/200 A	80 V	CO	P	54,00
SW180B-524	SPST NO	150/200 A	80 V	PO	B	91,00
SW180B-564	SPST NO	150/200 A	80 V	INT	B	91,00
SW180-18	SPST NO	150/200 A	96 V	CO		86,00
SW180B-270	SPST NO	150/200 A	96 V	CO	B	91,00
SW180B-356	SPST NO	150/200 A	100 V	CO	B	91,00
SW185B-10	SPST NC		110 V	CO	B	108,00

SW190-42L	DPST NO		110 V	CO	L	138,00
SW190-367L	DPST NO		110 V	CO	L	138,00
SW180AB-630	SPST NO	150/200 A	144 V	CO	AB	111,00
SW185AB-129	SPST NC		145 V	CO	AB	126,00
SW185B-104	SPST NC	150 A	220 V AC	CO	B	108,00

SW200 · SW201 · SW202 · SU280 · SW204 – SW210

PART NUMBER	CONTACTS	RATING	COIL	DUTY	OPT.	€
SU280-1193	SPST NO	250/350 A	12 V	CO		95,00
SU280-1250T	SPST NO	250/350 A	12 V	CO	T	95,00
SU280B-1002	SPST NO	250/350 A	12 V	CO	B	99,00
SU285-1	SPST NC	250 A	12 V	CO		118,00
SW200-3	SPST NO	250/400 A	12 V	CO	B	193,00
SW200N-3	SPST NO	250/400 A	12 V	CO		188,00
SW200R-834	SPST NO	250/400 A	12 V	CO	B	231,00
SW201-29	SPDT	250 A	12 V	CO	B	194,00
SW201N-29	SPDT	250 A	12 V	CO		191,00
SW380-1	2×SPDT rev.	250 A	12 V	CO		ask
SU280-1065P	SPST NO	250/350 A	12 V	INT	P	110,00
SU280B-1001	SPST NO	250/350 A	12 V	INT	B	99,00
SU285-10	SPST NC	250 A	12 V	INT		118,00
SW200-116	SPST NO	250/400 A	12 V	INT	B	193,00
SW200N-22	SPST NO	250/400 A	12 V	INT		188,00
SW200R-685	SPST NO	250/400 A	12 V	INT	B	231,00
SW200R-1107	SPST NO	250/400 A	12 V	INT	B	231,00
SW200R-1483	SPST NO	250/400 A	12 V	INT	B	231,00
SW201-50	SPDT	250 A	12 V	INT	B	194,00
SW201N-50	SPDT	250 A	12 V	INT		191,00
SW202-9	2×SPDT rev.	250 A	12 V	INT	B	299,00
SW202N-119	2×SPDT rev.	250 A	12 V	INT		294,00
SW202N-254	2×SPDT rev.	250 A	12 V	INT		294,00
SW202N-256	2×SPDT rev.	250 A	12 V	INT		294,00
SW202N-345	2×SPDT rev.	250 A	12 V	INT		294,00
SW202N-353	2×SPDT rev.	250 A	12 V	INT		294,00
SU280-1004	SPST NO	250/350 A	24 V	CO		95,00
SU280-1068P	SPST NO	250/350 A	24 V	CO	P	110,00
SU280-1678T	SPST NO	250/350 A	24 V	CO	T	95,00
SU280AB-1020	SPST NO	250/350 A	24 V	CO	AB	116,00
SU280AB-1372	SPST NO	250/350 A	24 V	CO	AB	116,00
SU280AB-1454	SPST NO	250/350 A	24 V	CO	AB	116,00
SU280B-1004	SPST NO	250/350 A	24 V	CO	B	99,00
SU285-14	SPST NC	250 A	24 V	CO		118,00
SU285-15P	SPST NC	250 A	24 V	CO	P	136,00
SW200N-29	SPST NO	250/400 A	24 V	CO		188,00
SW200N-88	SPST NO	250/400 A	24 V	CO		188,00
SW200N-336	SPST NO	250/400 A	24 V	CO		188,00
SW201-58	SPDT	250 A	24 V	CO	B	194,00
SW201N-58	SPDT	250 A	24 V	CO		191,00
SW204A-298	DPST NO	250 A	24 V	CO	A	372,00
SW210-194	SPST NC	250 A	24 V	CO		204,00
SW210-274	SPST NC	250 A	24 V	CO		204,00
SU280-1683	SPST NO	250/350 A	24-36 V	INT		95,00
SU280A-1581M	SPST NO	250/350 A	24 V	INT	AM	127,00
SU280B-1003	SPST NO	250/350 A	24 V	INT	B	99,00
SU280B-1487	SPST NO	250/350 A	24 V	INT	B	99,00
SU285-11	SPST NC	250 A	24 V	INT		118,00
SW200-2	SPST NO	250/400 A	24 V	INT	B	193,00
SW200-350	SPST NO	250/400 A	24 V	INT	B	193,00
SW200-359	SPST NO	250/400 A	24 V	INT	B	193,00
SW200-700	SPST NO	250/400 A	24 V	INT	B	193,00
SW200N-2	SPST NO	250/400 A	24 V	INT		188,00
SW201-2	SPDT	250 A	24 V	INT	B	194,00
SW201-223	SPDT	250 A	24 V	INT	B	194,00
SW201AN-329	SPDT	250 A	24 V	INT	A	208,00
SW201N-2	SPDT	250 A	24 V	INT		191,00
SW202-2	2×SPDT rev.	250 A	24 V	INT	B	299,00
SW202-37	2×SPDT rev.	250 A	24 V	INT	B	299,00
SW202-136	2×SPDT rev.	250 A	24 V	INT	B	299,00
SW202N-14	2×SPDT rev.	250 A	24 V	INT		294,00
SW202N-89	2×SPDT rev.	250 A	24 V	INT		294,00
SW202N-246	2×SPDT rev.	250 A	24 V	INT		294,00
SW202N-317	2×SPDT rev.	250 A	24 V	INT		294,00
SW202N-363	2×SPDT rev.	250 A	24 V	INT		294,00
SW206-20M	SPST NO	250 A	24 V	INT	M	201,00
SU280-1240	SPST NO	250/350 A	24 V	HO		95,00
SU280-1570P	SPST NO	250/350 A	24 V	HO	P	110,00
SU285-4P	SPST NC	250 A	28 V	CO	P	136,00
SU288-3	SPST NO	250 A	28 V	CO		ask
SU285-2P	SPST NC	250 A	30 V	CO	P	136,00
SW210F-268	SPST NC	250 A	30 V	INT		204,00
SU280-1072P	SPST NO	250/350 A	36 V	CO	P	110,00
SU280B-1244	SPST NO	250/350 A	36 V	CO	B	99,00
SW200-279	SPST NO	250/400 A	36 V	CO	B	193,00
SW201-19	SPDT	250 A	36 V	CO	B	194,00
SU280-1071P	SPST NO	250/350 A	36 V	INT	P	110,00
SW200-282	SPST NO	250/400 A	36 V	INT	B	193,00
SW200N-92	SPST NO	250/400 A	36 V	INT		188,00
SW200N-282	SPST NO	250/400 A	36 V	INT		188,00
SW201-48	SPDT	250 A	36 V	INT	B	194,00
SW200A-93	SPST NO	250/400 A	43 V	CO	AB	217,00
SU280-1224	SPST NO	250/350 A	48 V	CO		95,00
SU280-1225P	SPST NO	250/350 A	48 V	CO	P	110,00
SU280-1468P	SPST NO	250/350 A	48 V	CO	P	110,00
SU280-1556P	SPST NO	250/350 A	48 V	CO	P	110,00
SU280A-1408	SPST NO	250/350 A	48 V	CO	A	112,00
SU280B-1010	SPST NO	250/350 A	48 V	CO	B	99,00
SU280B-1282	SPST NO	250/350 A	48 V	CO	B	99,00
SU280B-1449P	SPST NO	250/350 A	48 V	CO	BP	115,00
SU280B-1661	SPST NO	250/350 A	48 V	CO	B	99,00
SU280CB-1618	SPST NO	250/350 A	48 V	CO	BC	103,00
SW200-262	SPST NO	250/400 A	48 V	CO	B	193,00
SW200-1240	SPST NO	250/400 A	48 V	CO	B	193,00
SW200A-128	SPST NO	250/400 A	48 V	CO	AB	217,00
SW201-3	SPDT	250 A	48 V	CO	B	194,00
SW201N-71	SPDT	250 A	48 V	CO		191,00
SW202-41	2×SPDT rev.	250 A	48 V	CO	B	299,00
SU280-1009	SPST NO	250/350 A	48 V	INT		95,00
SU280-1073P	SPST NO	250/350 A	48 V	INT	P	110,00
SU280B-1009	SPST NO	250/350 A	48 V	INT	B	99,00
SU280B-1220	SPST NO	250/350 A	48 V	INT	B	99,00
SU280B-1804	SPST NO	250/350 A	48 V	INT	B	99,00
SU280C-1542M	SPST NO	250/350 A	48 V	INT	CM	114,00
SW200-1	SPST NO	250/400 A	48 V	INT	B	193,00
SW200-7	SPST NO	250/400 A	48 V	INT	B	193,00
SW200-421	SPST NO	250/400 A	48 V	INT	B	193,00
SW201-101	SPDT	250 A	48 V	INT	B	194,00
SW202-3	2×SPDT rev.	250 A	48 V	INT	B	299,00
SW202-22	2×SPDT rev.	250 A	48 V	INT	B	299,00
SW210-129	SPST NC	250 A	48 V	INT		204,00
SW200-1277	SPST NO	250/400 A	48 V	HO	B	193,00
SU280B-1439	SPST NO	250/350 A	54 V	CO	B	99,00
SU280B-1012	SPST NO	250/350 A	60 V	CO	B	99,00

SW200A-658	SPST NO	250/400 A	60 V	CO	AB	217,00
SW200A-711	SPST NO	250/400 A	60 V	CO	AB	217,00
SU280-1078P	SPST NO	250/350 A	72 V	CO	P	110,00
SU280-1548P	SPST NO	250/350 A	72-80 V	CO	P	110,00
SW200-9	SPST NO	250/400 A	72 V	CO	B	193,00
SW200-652	SPST NO	250/400 A	72 V	CO	B	193,00
SW200A-799	SPST NO	250/400 A	72-80 V	CO	AB	217,00
SW201N-247	SPDT	250 A	72 V	CO		191,00
SW202-36	2×SPDT rev.	250 A	72 V	CO	B	299,00
SW200A-252	SPST NO	250/400 A	72-80 V	PO	AB	217,00
SU280-1077P	SPST NO	250/350 A	72 V	INT	P	110,00
SU280B-TBA011	SPST NO	250/350 A	72 V	INT	BT	99,00
SW200-6	SPST NO	250/400 A	72 V	INT	B	193,00
SW200A-33	SPST NO	250/400 A	72 V	INT	AB	217,00
SW201-199	SPDT	250 A	72-80 V	INT	B	194,00
SW202-10	2×SPDT rev.	250 A	72 V	INT	B	299,00
SW202-48	2×SPDT rev.	250 A	72 V	INT	B	299,00
SW202-95	2×SPDT rev.	250 A	72 V	INT	B	299,00
SW210-132	SPST NC	250 A	72 V	INT		204,00
SU280-1016	SPST NO	250/350 A	80 V	CO		95,00
SU280-1080P	SPST NO	250/350 A	80 V	CO	P	110,00
SU280B-1016	SPST NO	250/350 A	80 V	CO	B	99,00
SU280B-1080P	SPST NO	250/350 A	80 V	CO	BP	115,00
SW200-460	SPST NO	250/400 A	80 V	CO	B	193,00
SW200-583	SPST NO	250/400 A	80 V	CO	B	193,00
SW200-879	SPST NO	250/400 A	80 V	CO	B	193,00
SW200-5	SPST NO	250/400 A	80 V	INT	B	193,00
SW200-219	SPST NO	250/400 A	80 V	INT	B	193,00
SW200-476	SPST NO	250/400 A	80 V	INT	B	193,00
SW200-675	SPST NO	250/400 A	80 V	INT	B	193,00
SW200-27	SPST NO	250/400 A	96 V	CO	B	193,00
SW200-341	SPST NO	250/400 A	96 V	CO	B	193,00
SW200N-436	SPST NO	250/400 A	110 V	CO		188,00
SW200N-704	SPST NO	250/400 A	110 V	CO		188,00
SW200R-322	SPST NO	250/400 A	115 V	INT	B	231,00
SW200-28	SPST NO	250/400 A	120 V	CO	B	193,00
SW200A-869	SPST NO	250/400 A	120 V	CO	AB	217,00
SW202-56	2×SPDT rev.	250 A	120 V	INT	B	299,00
SW205N-71	DPST NO	250 A	125 V	CO		426,00

DC motor reversing

PART NUMBER	CONTACTS	RATING	COIL	DUTY	OPT.	€
DC66-125P	2×SPDT rev.	80 A	12 V	CO	P	75,00
DC88-313P	2×SPDT rev.	100 A	12 V	CO	P	154,00
DC88-584PL	2×SPDT rev.	100 A	12 V	CO	PL	173,00
DC88-690	2×SPDT rev.	100 A	12 V	CO		139,00
DC88B-690	2×SPDT rev.	100 A	12 V	CO	B	147,00
DC92-TBC10	2×SPST NO	100 A	12 V	CO	T	97,00
DC92B-TBC11	2×SPST NO	100 A	12 V	CO	BT	104,00
DC182-2	2×SPDT rev.	150 A	12 V	CO		182,00
DC182-843	2×SPDT rev.	150 A	12 V	CO		182,00
DC182-862P	2×SPDT rev.	150 A	12 V	CO	P	193,00
DC182B-843	2×SPDT rev.	150 A	12 V	CO	B	188,00
DC88-3	2×SPDT rev.	100 A	12 V	INT		139,00
DC88-91	2×SPDT rev.	100 A	12 V	INT		139,00
DC88-136	2×SPDT rev.	100 A	12 V	INT		139,00
DC88-276P	2×SPDT rev.	100 A	12 V	INT	P	154,00
DC88-420	2×SPDT rev.	100 A	12 V	INT		139,00
DC88B-3	2×SPDT rev.	100 A	12 V	INT	B	147,00
DC88B-91	2×SPDT rev.	100 A	12 V	INT	B	147,00
DC92-17	2×SPST NO	100 A	12 V	INT		97,00
DC92-213	2×SPST NO	100 A	12 V	INT		97,00
DC92B-17	2×SPST NO	100 A	12 V	INT	B	104,00
DC182-1	2×SPDT rev.	150 A	12 V	INT		182,00
DC182-180L	2×SPDT rev.	150 A	12 V	INT	L	213,00
DC182-237	2×SPDT rev.	150 A	12 V	INT		182,00
DC182-864P	2×SPDT rev.	150 A	12 V	INT	P	193,00
DC182B-237	2×SPDT rev.	150 A	12 V	INT	B	188,00
DC66-1P	2×SPDT rev.	80 A	12 V	HO	P	75,00
DC66-40P	2×SPDT rev.	80 A	12 V	HO	P	75,00
DC66-72P	2×SPDT rev.	80 A	12 V	HO	P	75,00
DC66-77P	2×SPDT rev.	80 A	12 V	HO	P	75,00
DC66-140P	2×SPDT rev.	80 A	12 V	HO	P	75,00
DC88-572	2×SPDT rev.	100 A	12 V	HO		139,00
DC88-1066PL	2×SPDT rev.	100 A	12 V	HO	PL	173,00
DC182-859PL	2×SPDT rev.	150 A	12 V	HO	PL	224,00
DC182-878PL	2×SPDT rev.	150 A	12 V	HO	PL	224,00
DC66-116P	2×SPDT rev.	80 A	24 V	CO	P	75,00
DC88-4	2×SPDT rev.	100 A	24 V	CO		139,00
DC88-316P	2×SPDT rev.	100 A	24 V	CO	P	154,00
DC88-389PL	2×SPDT rev.	100 A	24 V	CO	PL	173,00
DC88-392	2×SPDT rev.	100 A	24 V	CO		139,00
DC88B-392	2×SPDT rev.	100 A	24 V	CO	B	147,00
DC92-243	2×SPST NO	100 A	24 V	CO		97,00
DC92B-243	2×SPST NO	100 A	24 V	CO	B	104,00
DC182-4	2×SPDT rev.	150 A	24 V	CO		182,00
DC182-842	2×SPDT rev.	150 A	24 V	CO		182,00
DC182B-842	2×SPDT rev.	150 A	24 V	CO	B	188,00
DC66-17P	2×SPDT rev.	80 A	24 V	PO	P	75,00
DC182B-687	2×SPDT rev.	150 A	24 V	PO	B	188,00
DC66-10P	2×SPDT rev.	80 A	24 V	INT	P	75,00
DC66-15P	2×SPDT rev.	80 A	24 V	INT	P	75,00
DC88-111	2×SPDT rev.	100 A	24 V	INT		139,00
DC88-137	2×SPDT rev.	100 A	24 V	INT		139,00
DC88-206	2×SPDT rev.	100 A	24 V	INT		139,00
DC88-261	2×SPDT rev.	100 A	24 V	INT		139,00
DC88-282P	2×SPDT rev.	100 A	24 V	INT	P	154,00
DC88-323T	2×SPDT rev.	100 A	24 V	INT	T	139,00
DC88-556PL	2×SPDT rev.	100 A	24 V	INT	PL	173,00
DC88B-1	2×SPDT rev.	100 A	24 V	INT	B	147,00
DC88B-27	2×SPDT rev.	100 A	24 V	INT	B	147,00
DC88B-111	2×SPDT rev.	100 A	24 V	INT	B	147,00
DC88B-137	2×SPDT rev.	100 A	24 V	INT	B	147,00
DC88B-331	2×SPDT rev.	100 A	24 V	INT	B	147,00
DC92-1	2×SPST NO	100 A	24 V	INT		97,00
DC92-214	2×SPST NO	100 A	24 V	INT		97,00
DC92-1010P	2×SPST NO	100 A	24 V	INT	P	105,00
DC92B-1	2×SPST NO	100 A	24 V	INT	B	104,00
DC182-181L	2×SPDT rev.	150 A	24 V	INT	L	213,00
DC182-206	2×SPDT rev.	150 A	24 V	INT		182,00
DC182-651	2×SPDT rev.	150 A	24 V	INT		182,00
DC182-658	2×SPDT rev.	150 A	24 V	INT		182,00
DC182-663	2×SPDT rev.	150 A	24 V	INT		182,00
DC182-717L	2×SPDT rev.	150 A	24 V	INT	L	213,00
DC182-865P	2×SPDT rev.	150 A	24 V	INT	P	193,00
DC182B-100	2×SPDT rev.	150 A	24 V	INT	B	188,00
DC182B-102	2×SPDT rev.	150 A	24 V	INT	B	188,00
DC182B-206	2×SPDT rev.	150 A	24 V	INT	B	188,00
DC182B-247	2×SPDT rev.	150 A	24 V	INT	B	188,00
DC182B-508	2×SPDT rev.	150 A	24 V	INT	B	188,00
DC182B-530T	2×SPDT rev.	150 A	24 V	INT	BT	188,00
DC66-3P	2×SPDT rev.	80 A	24 V	HO	P	75,00

DC66-14P	2×SPDT rev.	80 A	24 V	HO	P	75,00
DC66-35P	2×SPDT rev.	80 A	24 V	HO	P	75,00
DC66-152P	2×SPDT rev.	80 A	24 V	HO	P	75,00
DC88-1031P	2×SPDT rev.	100 A	24 V	HO	P	154,00
DC88-6	2×SPDT rev.	100 A	36 V	CO		139,00
DC88-285P	2×SPDT rev.	100 A	36 V	CO	P	154,00
DC88-533	2×SPDT rev.	100 A	36 V	CO		139,00
DC88B-6	2×SPDT rev.	100 A	36 V	CO	B	147,00
DC88-5	2×SPDT rev.	100 A	36 V	INT		139,00
DC88-404P	2×SPDT rev.	100 A	36 V	INT	P	154,00
DC88B-5	2×SPDT rev.	100 A	36 V	INT	B	147,00
DC182B-93	2×SPDT rev.	150 A	36 V	INT	B	188,00
DC182B-425	2×SPDT rev.	150 A	36 V	INT	B	188,00
DC66-34P	2×SPDT rev.	80 A	48 V	CO	P	75,00
DC88-8	2×SPDT rev.	100 A	48 V	CO		139,00
DC88-407P	2×SPDT rev.	100 A	48 V	CO	P	154,00
DC88-TBC5	2×SPDT rev.	100 A	48 V	CO	T	139,00
DC88B-8	2×SPDT rev.	100 A	48 V	CO	B	147,00
DC88B-TBC6	2×SPDT rev.	100 A	48 V	CO	BT	147,00
DC92-224	2×SPST NO	100 A	48 V	CO		97,00
DC92B-224	2×SPST NO	100 A	48 V	CO	B	104,00
DC182-8	2×SPDT rev.	150 A	48 V	CO		182,00
DC182-545	2×SPDT rev.	150 A	48 V	CO		182,00
DC182-857P	2×SPDT rev.	150 A	48 V	CO	P	193,00
DC182B-8	2×SPDT rev.	150 A	48 V	CO	B	188,00
DC182B-545	2×SPDT rev.	150 A	48 V	CO	B	188,00
DC66-33P	2×SPDT rev.	80 A	48 V	PO	P	75,00
DC66-21P	2×SPDT rev.	80 A	48 V	INT	P	75,00
DC88-7	2×SPDT rev.	100 A	48 V	INT		139,00
DC88-483P	2×SPDT rev.	100 A	48 V	INT	P	154,00
DC88B-7	2×SPDT rev.	100 A	48 V	INT	B	147,00
DC88B-122	2×SPDT rev.	100 A	48 V	INT	B	147,00
DC92-249	2×SPST NO	100 A	48 V	INT		97,00
DC92B-249	2×SPST NO	100 A	48 V	INT	B	104,00
DC182-7	2×SPDT rev.	150 A	48 V	INT		182,00
DC182-419	2×SPDT rev.	150 A	48 V	INT		182,00
DC182-853P	2×SPDT rev.	150 A	48 V	INT	P	193,00
DC182B-103	2×SPDT rev.	150 A	48 V	INT	B	188,00
DC182B-419	2×SPDT rev.	150 A	48 V	INT	B	188,00
DC182B-634T	2×SPDT rev.	150 A	48 V	INT	BT	188,00
DC182B-659T	2×SPDT rev.	150 A	48 V	INT	BT	188,00
DC182B-677T	2×SPDT rev.	150 A	48 V	INT	BT	188,00
DC184AB-429L	2×SPST NO	150 A	48 V	INT	ABL	245,00
DC66-93P	2×SPDT rev.	80 A	48 V	HO	P	75,00
DC88-TBC1	2×SPDT rev.	100 A	72-80 V	CO	T	139,00
DC88B-TBC2	2×SPDT rev.	100 A	72-80 V	CO	BT	147,00
DC182-839	2×SPDT rev.	150 A	72-80 V	CO		182,00
DC182B-14	2×SPDT rev.	150 A	72 V	CO	B	188,00
DC182B-839	2×SPDT rev.	150 A	72-80 V	CO	B	188,00
DC88-646	2×SPDT rev.	100 A	72-80 V	INT		139,00
DC88B-646	2×SPDT rev.	100 A	72-80 V	INT	B	147,00
DC182-604	2×SPDT rev.	150 A	72-80 V	INT		182,00
DC182B-256	2×SPDT rev.	150 A	72 V	INT	B	188,00
DC182B-604	2×SPDT rev.	150 A	72-80 V	INT	B	188,00
DC182B-684	2×SPDT rev.	150 A	80 V	INT	B	188,00

High-current, busbar & HV500

PART NUMBER	CONTACTS	RATING	COIL	DUTY	OPT.	€
SW150-1067	SPST NO	150 A	12 V	CO		51,00
SW150A-1071	SPST NO	150 A	12 V	CO	A	74,00
SW560-52	SPST NO	600 A	12 V	CO		162,00
SW800-69	SPST NO	100/125 A	12 V	CO		397,00
SW1000-187	SPST NO	1200 A	12 V	CO		539,00
SW1000F-193	SPST NO	1200 A	12 V	CO		539,00
SW260-58	SPST NO	300 A	12 V	INT		119,00
SW300-1044M	SPST NO	300 A	12 V	INT	M	113,00
SW300-1102	SPST NO	300 A	12 V	INT		95,00
SW300C-1043M	SPST NO	300 A	12 V	INT	CM	129,00
HV500AF-13	SPST NO	500 A	12 V		A	182,00
HV500F-102	SPST NO	500 A	12 V			163,00
SW150-1079	SPST NO	150 A	24 V	CO		51,00
SW150A-1086	SPST NO	150 A	24 V	CO	A	74,00
SW260-25	SPST NO	300 A	24 V	CO		119,00
SW300-1087	SPST NO	300 A	24 V	CO		95,00
SW400-45	SPST NO	400 A	24 V	CO		119,00
SW400C-66	SPST NO	400 A	24 V	CO	C	123,00
SW500-18	SPST NO	500 A	24 V	CO		142,00
SW520A-21	DPST NO	520 A	24 V	CO	A	556,00
SW560-16	SPST NO	600 A	24 V	CO		162,00
SW560A-24	SPST NO	600 A	24 V	CO	A	185,00
SW800-28	SPST NO	100/125 A	24 V	CO		397,00
HV500F-149	SPST NO	500 A	24 V	INT		163,00
SW250-1111M	SPST NO	250 A	24 V	INT	M	78,00
SW260-101	SPST NO	300 A	24 V	INT		119,00
SW300-1021	SPST NO	300 A	24 V	INT		95,00
SW520-28M	DPST NO	500 A	24 V	INT	M	556,00
SW560-55	SPST NO	600 A	24 V	INT		162,00
SW560A-76M	SPST NO	600 A	24 V	INT	AM	202,00
SW560A-101	SPST NO	600 A	24 V	INT	A	185,00
HV500AF-159	SPST NO	500 A	24 V		A	182,00
SW250-1001	SPST NO	250 A	30 V	CO		61,00
SW260-1	SPST NO	300 A	30 V	CO		119,00
SW300-1001	SPST NO	300 A	30 V	CO		95,00
SW300A-1014	SPST NO	300 A	30 V	CO	A	118,00
SW400-1	SPST NO	400 A	30 V	CO		119,00
SW560-1	SPST NO	600 A	30 V	CO		162,00
SW800-5	SPST NO	100/125 A	30 V	CO		397,00
SW300-1020	SPST NO	300 A	30 V	INT		95,00
SW1500A-101M	SPST NO	1500 A	30 V	INT	AM	729,00
SW800-104	SPST NO	100/125 A	36 V	CO		397,00
SW150-1070	SPST NO	150 A	48 V	CO		51,00
SW250-1030	SPST NO	250 A	48 V	CO		61,00
SW260-39	SPST NO	300 A	48 V	CO		119,00
SW300-1018	SPST NO	300 A	48 V	CO		95,00
SW500-10	SPST NO	500 A	48 V	CO		142,00
SW560-168	SPST NO	600 A	48 V	CO		162,00
SW800-8	SPST NO	100/125 A	48 V	CO		397,00
SW1500-9	SPST NO	1800 A	48 V	CO		694,00
HV500AF-170M	SPST NO	500 A	48 V	INT	AM	205,00
HV500F-35	SPST NO	500 A	48 V	INT		163,00
SW400F-92M	SPST NO	400 A	48 V	INT	M	136,00
SW500-28M	SPST NO	500 A	48 V	INT	M	159,00
SW560-25M	SPST NO	600 A	48 V	INT	M	179,00
SW560A-36M	SPST NO	600 A	48 V	INT	AM	202,00
SW1500-57M	SPST NO	1800 A	48 V	INT	M	712,00
SW500A-54	SPST NO	500 A	54 V	CO	A	165,00
SW150-1002	SPST NO	150 A	60 V	CO		51,00
SW150A-1004	SPST NO	150 A	60 V	CO	A	74,00
SW250-1002	SPST NO	250 A	60 V	CO		61,00
SW250A-1004	SPST NO	250 A	60 V	CO	A	84,00
SW260-3	SPST NO	300 A	60 V	CO		119,00
SW260A-4	SPST NO	300 A	60 V	CO	A	142,00

SW300-1002	SPST NO	300 A	60 V	CO		95,00
SW300-1030	SPST NO	300 A	60 V	CO		95,00
SW400-7	SPST NO	400 A	60 V	CO		119,00
SW800-6	SPST NO	100/125 A	60 V	CO		397,00
SW800A-2	SPST NO	100/125 A	60 V	CO	A	415,00
SW250A-1107M	SPST NO	250 A	60 V	INT	AM	101,00
SW260-9	SPST NO	300 A	60 V	INT		119,00
SW800-7	SPST NO	100/125 A	60 V	INT		397,00
HV500F-128	SPST NO	500 A	60 V			163,00
SW560-87	SPST NO	600 A	72 V	CO		162,00
SW800-58	SPST NO	100/125 A	72 V	CO		397,00
SW560-23	SPST NO	600 A	72 V	INT		162,00
SW250-1085	SPST NO	250 A	80 V	CO		61,00
SW560-26	SPST NO	600 A	80 V	CO		162,00
SW800-114	SPST NO	100/125 A	80 V	CO		397,00
SW800A-75	SPST NO	100/125 A	80 V	CO	A	415,00
SW260-66	SPST NO	300 A	80 V	INT		119,00
SW560-139	SPST NO	600 A	80 V	INT		162,00
SW800-82	SPST NO	100/125 A	80 V	INT		397,00

ED · SD emergency switches

PART NUMBER	CONTACTS	RATING	COIL	DUTY	OPT.	€
SD150-5	SP	150 A	max. 48 V			89,00
SD150A-54	SP	150 A	max. 48 V		A	120,00
SD150LA-TBC	SP	150 A	max. 48 V		AK	153,00
SD250A-1	SP	250 A			A	140,00
SD250LB-9	SP	250 A			BK	170,00
SD300A-2	SP	300 A			A	152,00
SD300A-4	SP	300 A			A	152,00
SD300AB-2	SP	300 A			AB	157,00
SD300AB-4	SP	300 A			AB	157,00
SD150A-26	SP	150 A	max. 48 V		A	120,00
SD150A-30	SP	150 A	max. 48 V		A	120,00
SD150A-44	SP	150 A	max. 48 V		A	120,00
SD200A-16	SP	200 A			A	109,00
SD200AB-16	SP	200 A			AB	114,00
SD250A-43	SP	250 A			A	140,00
ED125-1	SP	125 A	max. 48 V			48,00
ED125-16	SP	125 A	max. 48 V			48,00
ED125A-2	SP	125 A	max. 48 V		A	77,00
ED125A-27	SP	125 A	max. 48 V		A	77,00
ED125AB-2	SP	125 A	max. 96 V		AB	81,00
ED125B-1	SP	125 A	max. 96 V		B	53,00
ED125L-1	SP	125 A	max. 48 V		K	80,00
ED125L-4	SP	125 A	max. 48 V		K	80,00
ED125L-7	SP	125 A	max. 48 V		K	80,00
ED125LB-1	SP	125 A	max. 96 V		BK	84,00
ED250-1	SP	250 A	max. 48 V			63,00
ED250-4	SP	250 A	max. 48 V			63,00
ED250-25	SP	250 A	max. 48 V			63,00
ED250-54	SP	250 A	max. 48 V			63,00
ED250A-2	SP	250 A	max. 48 V		A	90,00
ED250AB-2	SP	250 A	max. 96 V		AB	94,00
ED250B-25	SP	250 A	max. 96 V		B	67,00
ED250L-1	SP	250 A	max. 48 V		K	92,00
ED250L-4	SP	250 A	max. 48 V		K	92,00
ED250LAB-2	SP	250 A	max. 96 V		ABK	123,00
ED250LAB-5	SP	250 A	max. 96 V		ABK	123,00
ED252-4	DP	250 A	max. 96 V			87,00
ED252-16	DP	250 A	max. 96 V			87,00
ED252-26	DP	250 A	max. 96 V			87,00
ED252A-14	DP	250 A	max. 96 V		A	116,00
ED252AB-2	DP	250 A	max. 150 V		AB	120,00
ED252B-4	DP	250 A	max. 150 V		B	91,00
ED252L-4	DP	250 A	max. 96 V		K	119,00
ED252L-14	DP	250 A	max. 96 V		K	119,00
ED252LA-2	DP	250 A	max. 96 V		AK	148,00
ED252LA-15	DP	250 A	max. 96 V		AK	148,00
ED252LB-1	DP	250 A	max. 150 V		BK	123,00
ED252LB-4	DP	250 A	max. 150 V		BK	123,00
ED300-1	DP	300 A	max. 48 V			80,00
ED300A-4	DP	300 A	max. 48 V		A	112,00
ED300AB-4	DP	300 A	max. 96 V		AB	117,00
ED300L-3	DP	300 A	max. 48 V		K	80,00
ED300LB-3	DP	300 A	max. 96 V		BK	121,00
ED520-1	DP	500 A	max. 60 V			625,00

PRODUCT RANGE

Micropower battery chargers

Industrial battery chargers from Micropower for forklifts, AGVs, cleaning machines, utility vehicles and other battery-powered equipment: stationary and onboard, single- and three-phase, for lead-acid and lithium-ion batteries.

16 series
from 100 W to 39 kW

4.2–280 V
output voltages

Lead-acid · Li-ion
all battery types

Click **shop** next to a charger to open it in our webshop, or **PDF** for the manufacturer's datasheet. Matching **REMA connectors** and Anderson connectors are available from us. Not sure about voltage and amps? Try our **charger sizing guide**. Prices, lead times and special versions: **request a quote**.

Micropower chargers and DC-DC converters from MK-Controls Oy. We also supply the REMA and Anderson battery connectors for these chargers. Ask us for a complete charger-and-connector package.

01



SC chargers
Micropower SC

02



SX chargers
Micropower SX

03



SQ chargers
Micropower SQ

04



ST chargers
Micropower ST

05



SL chargers
Micropower SL

06



RC onboard chargers
Micropower RC

07



Robust (RO) chargers
RO / Robust

08



Access chargers
Access

09



Lion chargers
Lion

10



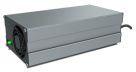
Sharp chargers
Sharp

11



Champ chargers
Champ · Champ Pro

12



ABC chargers
ABC

13



PAC/PAP chargers and power supplies
PAC / PAP

14



Workshop and rescue chargers
Workshop · Rescue

Contents

Choosing a battery charger

01 SC chargers

02 SX chargers

03 SQ chargers

04 ST chargers

05 SL chargers

06 RC onboard chargers

07 Robust (RO) chargers

08 Access chargers

09 Lion chargers

10 Sharp chargers

11 Champ chargers

12 ABC chargers

13 PAC/PAP chargers and power supplies

14 Workshop and rescue chargers

GUIDE

Choosing a battery charger

Match the charger to the battery: type, voltage and capacity, then the mains supply and the place where it sits. The charts are drawn from the models in this catalogue.

Choosing a charger in four steps

1 Battery type
Lead-acid, GEL/AGM or lithium-ion (CAN bus)?

2 Voltage and Ah
Nominal voltage and capacity set the charger size.

3 Mains supply
Single- or three-phase, and how many kW you can draw.

4 Where it sits
Stationary (IP20/IP21) or onboard / harsh (IP54 – IP67).

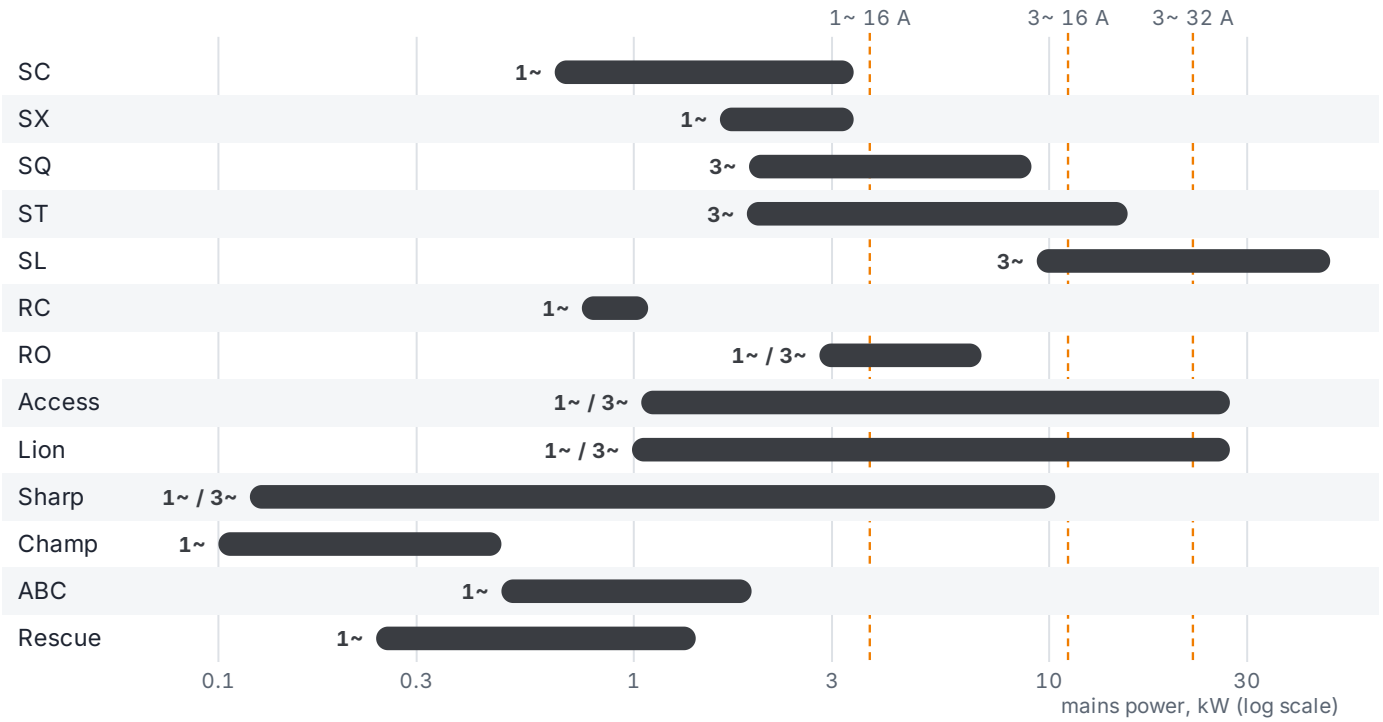
Not sure about the size? Use Micropower's online charger guide, which narrows the range by battery, voltage and application. To see how battery voltage, amps and charging time fit together, try our charger sizing guide. Or send us the battery type, voltage and Ah and the mains supply, and we will propose a charger: request a quote.

Charger map: battery voltage and charge current

Charge current	12 V	24 V	36 V	48 V	72 – 80 V	96 V	120 V +
up to 10 A	Sharp Champ	Sharp Champ			ABC	ABC	RO
10 – 20 A	Sharp Champ Rescue	SC Sharp Champ	RC Sharp	RC Access Sharp ABC			
20 – 40 A	Sharp Champ ABC Rescue	SC RC Access Lion Sharp ABC	RC Access Sharp	SC SX Access Lion Sharp ABC		RO	
40 – 80 A	RC Sharp ABC Rescue	SC SX SQ ST Access Lion Sharp ABC	Access Sharp	SC SX SQ ST Access Lion Sharp	SQ ST RO Access Lion Sharp	RO	
80 – 160 A	ABC Rescue	SC SX SQ ST Access Lion Sharp	SQ ST Access Lion Sharp	SQ ST RO Access Lion Sharp	SQ ST SL Access Lion	ST SL	ST SL Access Lion
160 – 320 A		SQ ST Access Lion Sharp	SQ ST SL Access Lion Sharp	ST SL Access Lion Sharp	SL Access Lion	SL	SL Access Lion
over 320 A		Access Lion	SL Access Lion	SL Access Lion	SL	SL	

Find your battery voltage (column) and the charge current you need (row): the cell lists the series that offer that combination. Darker = more series to choose from. Open the series chapter for the exact models.

Which series for my power level?



Bars show the lowest to highest mains power of each series; 1~ single-phase, 3~ three-phase. The dashed lines mark what a typical 230 V / 400 V supply can deliver at 16 A and 32 A (P = U × I, three-phase × √3). Check that your supply and fuse can carry the charger.

How long does charging take?

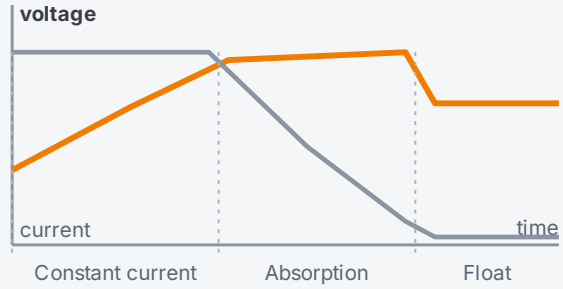
Battery	20 A	30 A	40 A	60 A	80 A	120 A	200 A
100 Ah	6.0 h	4.0 h	3.0 h	2.0 h	1.5 h	1.0 h	0.6 h
200 Ah	12 h	8.0 h	6.0 h	4.0 h	3.0 h	2.0 h	1.2 h
300 Ah	18 h	12 h	9.0 h	6.0 h	4.5 h	3.0 h	1.8 h
400 Ah	24 h	16 h	12 h	8.0 h	6.0 h	4.0 h	2.4 h
600 Ah	36 h	24 h	18 h	12 h	9.0 h	6.0 h	3.6 h
800 Ah	48 h	32 h	24 h	16 h	12 h	8.0 h	4.8 h
1000 Ah	60 h	40 h	30 h	20 h	15 h	10 h	6.0 h

about 10 – 20 % of Ah: typical for lead-acid faster than 20 %: only if the battery maker allows

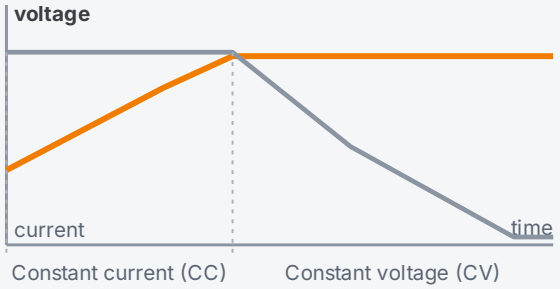
Estimate: charge time ≈ capacity in Ah × 1.2 ÷ charger current in A, from fully discharged, for lead-acid batteries (about 20 % charging losses). Real time depends on battery, temperature and charge curve. Always follow the battery manufacturer's maximum charge current.

Charge curves in one picture

Lead-acid · GEL · AGM (IUoU)



Lithium-ion with CAN bus (CC / CV)



Schematic illustration, not measured data. **Coloured line = battery voltage, grey line = charge current.** Lead-acid: constant current, then absorption at constant voltage, then float. Lithium-ion: the charger follows the battery management system over CAN bus, so the battery stays in control and its BMS ends the charge. The right curve in the charger must match the battery type.

IP ratings in this catalogue

IP20 · IP21

Indoor, dry installation (IP21 tolerates vertically dripping water). Typical for wall-mounted stationary chargers in the charging room.

IP54

Protected against dust and splashing water. Fits workshops, warehouses and vehicles that are sometimes washed.

IP65 · IP66

Dust-tight and protected against water jets. For onboard chargers and harsh or wet industrial environments.

IP67

Dust-tight and protected against temporary immersion. The choice for the toughest vehicle and outdoor installations.

01

SC chargers

Micropower SC

Stationary single-phase chargers for industrial batteries, in versions for lead-acid, GEL and AGM and for lithium-ion with CAN bus. Wall-mounted with the bracket and cable holder included; settings are made wirelessly with the GET app (NFC).



OUTPUT VOLTAGE	OUTPUT CURRENT	MAINS	PROTECTION
24 – 48 V	20 – 120 A	1-phase	IP20

Micropower SC

ORDER CODE	MODEL	OUTPUT	PH	MAINS V	POWER W	IP	OUTPUT CONN.	EFF. %	DATA
V42240-A1	SC6	24 V / 20 A	1	220-240	645	IP20	DIN80	91	PDF · web · shop
V62240-A1	SC6-LI-CAN	24 V / 20 A	1	220-240	645	IP20	DIN80	91	PDF · web · shop
V72270-A1	SC8	24 V / 30 A	1	220-240	977	IP20	DIN80	91	PDF · web · shop
V92270-A1	SC8-LI-CAN	24 V / 30 A	1	220-240	977	IP20	DIN80	91	PDF · web · shop
VA2300-A1	SC11	24 V / 40 A	1	220-240	1296	IP20	DIN80	91	PDF · web · shop
VC2300-A1	SC11-LI-CAN	24 V / 40 A	1	220-240	1296	IP20	DIN80	91	PDF · web · shop
VD2310-A1	SC13	24 V / 45 A	1	220-240	1462	IP20	DIN80	91	PDF · web · shop
VF2310-A1	SC13-LI-CAN	24 V / 45 A	1	220-240	1462	IP20	DIN80	91	PDF · web · shop
VG2320-A1	SC14	24 V / 50 A	1	220-240	1613	IP20	DIN80	91	PDF · web · shop
VJ2320-A1	SC14-LI-CAN	24 V / 50 A	1	220-240	1613	IP20	DIN80	91	PDF · web · shop
VK2340-A1	SC17	24 V / 60 A	1	220-240	1942	IP20	DIN80	91	PDF · web · shop
VM2340-A1	SC17-LI-CAN	24 V / 60 A	1	220-240	1942	IP20	DIN80	91	PDF · web · shop
VN2380-A1	SC23	24 V / 80 A	1	220-240	2581	IP20	DIN80	91	PDF · web · shop
VN4300-A1	SC23	48 V / 40 A	1	220-240	2562	IP20	DIN80	91	PDF · web · shop
VQ2380-A1	SC23-LI-CAN	24 V / 80 A	1	220-240	2581	IP20	DIN80	91	PDF · web · shop
VQ4300-A1	SC23-LI-CAN	48 V / 40 A	1	220-240	2562	IP20	DIN80	91	PDF · web · shop
VR2420-A1	SC32	24 V / 100 A	1	220-240	3220	IP20	DIN160	91	PDF · web · shop
VR2460-A1	SC32	24 V / 120 A	1	220-240	3385	IP20	DIN160	91	PDF · web · shop
VR4340-A1	SC32	48 V / 60 A	1	220-240	3377	IP20	DIN80	91	PDF · web · shop
VT2420-A1	SC32-LI-CAN	24 V / 100 A	1	220-240	3220	IP20	DIN160	91	PDF · web · shop
VT2460-A1	SC32-LI-CAN	24 V / 120 A	1	220-240	3385	IP20	DIN160	91	PDF · web · shop
VT4340-A1	SC32-LI-CAN	48 V / 60 A	1	220-240	3377	IP20	DIN80	91	PDF · web · shop

02

SX chargers

Micropower SX

Stationary single-phase chargers with an intuitive interface, supplied with wall bracket and cable holder for fast installation. Several charging algorithms for lead-acid and lithium-ion batteries.



OUTPUT VOLTAGE	OUTPUT CURRENT	MAINS	PROTECTION
24 – 48 V	40 – 120 A	1-phase	IP20 · IP21

Micropower SX

ORDER CODE	MODEL	OUTPUT	PH	MAINS V	POWER W	IP	OUTPUT CONN.	EFF. %	DATA
WJ2321-A3	SX14	24 V / 50 A	1	120-240	1613	IP21	DIN80	91	PDF · web · shop
WJ2321-A2	SX14	24 V / 50 A	1	120-240	1613	IP21	DIN80	91	PDF · web · shop
WG2321-A3	SX14	24 V / 50 A	1	120-240	1613	IP21	DIN80	91	PDF · web · shop
WG2321-A2	SX14	24 V / 50 A	1	120-240	1613	IP20	DIN80	91	PDF · web · shop
WG2320-A1	SX14	24 V / 50 A	1	220-240	1613	IP21	DIN80	91	PDF · web · shop
WJ2320-A1	SX14	24 V / 50 A	1	220-240	1613	IP21	DIN80	91	PDF · web · shop
WK2340-A1	SX17	24 V / 60 A	1	220-240	1942	IP21	DIN80	91	PDF · web · shop
WK2340-A2	SX17	24 V / 60 A	1	220-240	1942	IP21	DIN80	91	PDF · web · shop
WK2340-A3	SX17	24 V / 60 A	1	220-240	1942	IP21	DIN80	91	PDF · web · shop
WM2340-A1	SX17	24 V / 60 A	1	220-240	1942	IP21	DIN80	91	PDF · web · shop
WM2340-A3	SX17	24 V / 60 A	1	220-240	1942	IP21	DIN80	91	PDF · web · shop
WM2340-A2	SX17	24 V / 60 A	1	220-240	1942	IP21	DIN80	91	PDF · web · shop
WN2380-A1	SX23	24 V / 80 A	1	220-240	2581	IP21	DIN80	91	PDF · web · shop
WQ2380-A1	SX23	24 V / 80 A	1	220-240	2581	IP21	DIN80	91	PDF · web · shop
WQ2380-A2	SX23	24 V / 80 A	1	220-240	2581	IP21	DIN80	91	PDF · web · shop
WQ2380-A3	SX23	24 V / 80 A	1	220-240	2581	IP21	DIN80	91	PDF · web · shop
WN2380-A2	SX23	24 V / 80 A	1	220-240	2581	IP21	DIN80	91	PDF · web · shop
WN2380-A3	SX23	24 V / 80 A	1	220-240	2581	IP21	DIN80	91	PDF · web · shop
WN4300-A1	SX23	48 V / 40 A	1	220-240	2562	IP21	DIN80	91	PDF · web · shop
WQ4300-A1	SX23	48 V / 40 A	1	220-240	2562	IP21	DIN80	91	PDF · web · shop
WQ4300-A3	SX23	48 V / 40 A	1	220-240	2562	IP21	DIN80	91	PDF · web · shop
WQ4300-A2	SX23	48 V / 40 A	1	220-240	2562	IP21	DIN80	91	PDF · web · shop
WN4300-A2	SX23	48 V / 40 A	1	220-240	2562	IP21	DIN80	91	PDF · web · shop
WN4300-A3	SX23	48 V / 40 A	1	220-240	2562	IP21	DIN80	91	PDF · web · shop
WR2420-A1	SX32	24 V / 100 A	1	220-240	3220	IP21	DIN160	91	PDF · web · shop
WT2420-A1	SX32	24 V / 100 A	1	220-240	3220	IP21	DIN160	91	PDF · web · shop
WR2460-A1	SX32	24 V / 120 A	1	220-240	3385	IP21	DIN160	91	PDF · web · shop
WT2460-A1	SX32	24 V / 120 A	1	220-240	3385	IP21	DIN160	91	PDF · web · shop
WT2460-A3	SX32	24 V / 120 A	1	220-240	3385	IP21	DIN160	91	PDF · web · shop
WR2460-A3	SX32	24 V / 120 A	1	220-240	3385	IP21	DIN160	91	PDF · web · shop
WR2460-A2	SX32	24 V / 120 A	1	220-240	3385	IP21	DIN160	91	PDF · web · shop
WT2460-A2	SX32	24 V / 120 A	1	220-240	3385	IP21	DIN160	91	PDF · web · shop
WT4340-A1	SX32	48 V / 60 A	1	220-240	3377	IP21	DIN80	91	PDF · web · shop

ORDER CODE	MODEL	OUTPUT	PH	MAINS V	POWER W	IP	OUTPUT CONN.	EFF. %	DATA
WT4340-A2	SX32	48 V / 60 A	1	220-240	3377	IP21	DIN80	91	PDF · web · shop
WT4340-A3	SX32	48 V / 60 A	1	220-240	3377	IP21	DIN80	91	PDF · web · shop
WR4340-A1	SX32	48 V / 60 A	1	220-240	3377	IP21	DIN80	91	PDF · web · shop
WR4340-A2	SX32	48 V / 60 A	1	220-240	3377	IP21	DIN80	91	PDF · web · shop
WR4340-A3	SX32	48 V / 60 A	1	220-240	3377	IP21	DIN80	91	PDF · web · shop

03

SQ chargers

Micropower SQ

Compact, robust three-phase chargers for traditional lead-acid batteries, from about 1.7 to 9 kW.



OUTPUT VOLTAGE	OUTPUT CURRENT	MAINS	PROTECTION
24 – 80 V	60 – 200 A	3-phase	IP21

Micropower SQ

ORDER CODE	MODEL	OUTPUT	PH	MAINS V	POWER W	IP	OUTPUT CONN.	EFF. %	DATA
SN2349	SQ17	24 V / 60 A	3	380-440	1894	IP21	DIN80	94	PDF · web · shop
SN2389	SQ20	24 V / 80 A	3	380-440	2507	IP21	DIN80	94	PDF · web · shop
SN2429	SQ30	24 V / 100 A	3	380-440	3127	IP21	DIN160	94	PDF · web · shop
SN4349	SQ30	48 V / 60 A	3	380-440	3656	IP21	DIN80	96	PDF · web · shop
SN2489	SQ40	24 V / 130 A	3	380-440	4068	IP21	DIN160	94	PDF · web · shop
SN2486	SQ40	24 V / 130 A	3	480	4065	IP21	DIN160	94	PDF · web · shop
SN2529	SQ45	24 V / 150 A	3	380-440	4727	IP21	DIN160	93	PDF · web · shop
SN3439	SQ50	36 V / 105 A	3	380-440	4848	IP21	DIN160	95	PDF · web · shop
SN3436	SQ50	36 V / 105 A	3	480	4876	IP21	DIN160	94	PDF · web · shop
SN4389	SQ50	48 V / 80 A	3	380-440	4867	IP21	DIN80	96	PDF · web · shop
SN4386	SQ50	48 V / 80 A	3	480	4907	IP21	DIN80	95	PDF · web · shop
SN2629	SQ60	24 V / 200 A	3	380-440	6302	IP21	DIN320	93	PDF · web · shop
SN2626	SQ60	24 V / 200 A	3	480	6361	IP21	DIN320	93	PDF · web · shop
SN3489	SQ60	36 V / 130 A	3	380-440	6034	IP21	DIN160	94	PDF · web · shop
SN3529	SQ60	36 V / 150 A	3	380-440	6975	IP21	DIN160	94	PDF · web · shop
SN4429	SQ60	48 V / 100 A	3	380-440	6077	IP21	DIN160	96	PDF · web · shop
SN6349	SQ60	80 V / 60 A	3	380-440	6054	IP21	DIN80	96	PDF · web · shop
SN3569	SQ70	36 V / 170 A	3	380-440	7888	IP21	DIN320	94	PDF · web · shop
SN3566	SQ70	36 V / 170 A	3	480	7940	IP21	DIN320	94	PDF · web · shop
SN4489	SQ70	48 V / 130 A	3	380-440	7903	IP21	DIN160	96	PDF · web · shop
SN4486	SQ70	48 V / 130 A	3	480	7963	IP21	DIN160	95	PDF · web · shop
SN6389	SQ80	80 V / 80 A	3	380-440	8063	IP21	DIN80	96	PDF · web · shop
SN6409	SQ90	80 V / 90 A	3	380-440	9061	IP21	DIN160	96	PDF · web · shop
SN6406	SQ90	80 V / 90 A	3	480	9057	IP21	DIN160	96	PDF · web · shop

04

ST chargers

Micropower ST

Compact, robust three-phase chargers for all battery types, from about 1.7 to 14.5 kW.



OUTPUT VOLTAGE	OUTPUT CURRENT	MAINS	PROTECTION
24 – 120 V	60 – 300 A	3-phase	IP20 · IP21

Micropower ST

ORDER CODE	MODEL	OUTPUT	PH	MAINS V	POWER W	IP	OUTPUT CONN.	EFF. %	DATA
AN2349	ST17	24 V / 60 A	3	380-440	1871	IP21	DIN80	94	PDF · web · shop
AN2346	ST17	24 V / 60 A	3	480	1878	IP21	DIN80	94	PDF · web · shop
AN2389	ST20	24 V / 80 A	3	380-440	2507	IP21	DIN80	94	PDF · web · shop
LN2389	ST20	24 V / 80 A	3	380-440	2507	IP21	DIN80	94	PDF · web · shop
AN2386	ST20	24 V / 80 A	3	480	2519	IP21	DIN80	94	PDF · web · shop
AN2429	ST30	24 V / 100 A	3	380-440	3127	IP21	DIN160	94	PDF · web · shop
LN2429	ST30	24 V / 100 A	3	380-440	3127	IP21	DIN160	94	PDF · web · shop
AN4349	ST30	48 V / 60 A	3	380-440	3656	IP21	DIN80	96	PDF · web · shop
LN4349	ST30	48 V / 60 A	3	380-440	3656	IP21	DIN80	96	PDF · web · shop
AN2489	ST40	24 V / 130 A	3	380-440	4068	IP21	DIN160	94	PDF · web · shop
LN2489	ST40	24 V / 130 A	3	380-440	4068	IP21	DIN160	94	PDF · web · shop
LN2486	ST40	24 V / 130 A	3	480	4065	IP21	DIN160	94	PDF · web · shop
AN2486	ST40	24 V / 130 A	3	480	4065	IP21	DIN160	94	PDF · web · shop
AN2529	ST45	24 V / 150 A	3	380-440	4727	IP21	DIN160	93	PDF · web · shop
LN2529	ST45	24 V / 150 A	3	380-440	4727	IP21	DIN160	93	PDF · web · shop
AN3439	ST50	36 V / 105 A	3	380-440	4848	IP21	DIN160	95	PDF · web · shop
LN3439	ST50	36 V / 105 A	3	380-440	4848	IP21	DIN160	95	PDF · web · shop
AN3436	ST50	36 V / 105 A	3	480	4876	IP21	DIN160	94	PDF · web · shop
LN3436	ST50	36 V / 105 A	3	480	4876	IP21	DIN160	94	PDF · web · shop
AN4389	ST50	48 V / 80 A	3	380-440	4867	IP21	DIN80	96	PDF · web · shop
LN4389	ST50	48 V / 80 A	3	380-440	4867	IP21	DIN80	96	PDF · web · shop
AN4386	ST50	48 V / 80 A	3	480	4907	IP21	DIN80	95	PDF · web · shop
LN4386	ST50	48 V / 80 A	3	480	4907	IP21	DIN80	95	PDF · web · shop
AN2629	ST60	24 V / 200 A	3	380-440	6302	IP21	DIN320	93	PDF · web · shop
LN2629	ST60	24 V / 200 A	3	380-440	6302	IP21	DIN320	93	PDF · web · shop
AN2626	ST60	24 V / 200 A	3	480	6361	IP21	DIN320	93	PDF · web · shop
LN2626	ST60	24 V / 200 A	3	480	6361	IP21	DIN320	93	PDF · web · shop
AN3489	ST60	36 V / 130 A	3	380-440	6034	IP21	DIN160	94	PDF · web · shop
LN3489	ST60	36 V / 130 A	3	380-440	6034	IP21	DIN160	94	PDF · web · shop
LN3529	ST60	36 V / 150 A	3	380-440	6975	IP21	DIN160	94	PDF · web · shop
AN4429	ST60	48 V / 100 A	3	380-440	6077	IP21	DIN160	96	PDF · web · shop
LN4429	ST60	48 V / 100 A	3	380-440	6077	IP21	DIN160	96	PDF · web · shop
AN6349	ST60	80 V / 60 A	3	380-440	6054	IP21	DIN80	96	PDF · web · shop
LN6349	ST60	80 V / 60 A	3	380-440	6054	IP21	DIN80	96	PDF · web · shop

ORDER CODE	MODEL	OUTPUT	PH	MAINS V	POWER W	IP	OUTPUT CONN.	EFF. %	DATA
AN3529	ST65	36 V / 150 A	3	380-440	6975	IP21	DIN160	94	PDF · web · shop
AN3569	ST70	36 V / 170 A	3	380-440	7888	IP21	DIN320	94	PDF · web · shop
LN3569	ST70	36 V / 170 A	3	380-440	7888	IP21	DIN320	94	PDF · web · shop
AN3566	ST70	36 V / 170 A	3	480	7940	IP21	DIN320	94	PDF · web · shop
LN3566	ST70	36 V / 170 A	3	480	7940	IP21	DIN320	94	PDF · web · shop
AN4489	ST70	48 V / 130 A	3	380-440	7903	IP21	DIN160	96	PDF · web · shop
LN4489	ST70	48 V / 130 A	3	380-440	7903	IP21	DIN160	96	PDF · web · shop
AN4486	ST70	48 V / 130 A	3	480	7963	IP21	DIN160	95	PDF · web · shop
LN4486	ST70	48 V / 130 A	3	480	7963	IP21	DIN160	95	PDF · web · shop
AN6389	ST80	80 V / 80 A	3	380-440	8063	IP21	DIN80	96	PDF · web · shop
LN6389	ST80	80 V / 80 A	3	380-440	8063	IP21	DIN80	96	PDF · web · shop
LN6389-3073	ST80	80 V / 80 A	3	380-440	8063	IP21	Cobra	96	PDF · web · shop
AN6409	ST90	80 V / 90 A	3	380-440	9061	IP21	DIN160	96	PDF · web · shop
LN6409	ST90	80 V / 90 A	3	380-440	9061	IP21	DIN160	96	PDF · web · shop
AN6406	ST90	80 V / 90 A	3	480	9057	IP21	DIN160	96	PDF · web · shop
LN6406	ST90	80 V / 90 A	3	480	9057	IP21	DIN160	96	PDF · web · shop
AV2769-B1	ST100	24 V / 300 A	3	380-440	9458	IP20	DIN320	92.73	PDF · web · shop
LV2769-B1	ST100	24 V / 300 A	3	380-440	9458	IP20	DIN320	92.73	PDF · web · shop
AV2766-B3	ST100	24 V / 300 A	3	480	9458	IP20	DIN320	93	PDF · web · shop
LV2766-B3	ST100	24 V / 300 A	3	480	9458	IP20	DIN320	93	PDF · web · shop
AV3669-B1	ST100	36 V / 220 A	3	380-440	10296	IP20	DIN320	93	PDF · web · shop
LV3669-B1	ST100	36 V / 220 A	3	380-440	10296	IP20	DIN320	93	PDF · web · shop
AV3666-B3	ST100	36 V / 220 A	3	480	10353	IP20	DIN320	94.3	PDF · web · shop
LV3666-B3	ST100	36 V / 220 A	3	480	10353	IP20	DIN320	94.3	PDF · web · shop
AV4559-B1	ST100	48 V / 165 A	3	380-440	10226	IP20	DIN320	95.4	PDF · web · shop
LV4559-B1	ST100	48 V / 165 A	3	380-440	10226	IP20	DIN320	95.4	PDF · web · shop
AV4556-B3	ST100	48 V / 165 A	3	480	10215	IP20	DIN320	95.4	PDF · web · shop
LV4556-B3	ST100	48 V / 165 A	3	480	10215	IP20	DIN320	95.4	PDF · web · shop
AV6429-B1	ST100	80 V / 100 A	3	380-440	10105	IP20	DIN160	96	PDF · web · shop
LV6429-B1	ST100	80 V / 100 A	3	380-440	10105	IP20	DIN160	96	PDF · web · shop
AV6426-B3	ST100	80 V / 100 A	3	480	10111	IP20	DIN160	96	PDF · web · shop
LV6426-B3	ST100	80 V / 100 A	3	480	10111	IP20	DIN160	96	PDF · web · shop
AX7409-3073	ST100	90 V / 90 A	3	380-440	9928	IP20	DIN320	96	PDF · web · shop
AV6449-B1	ST110	80 V / 110 A	3	380-440	11121	IP20	DIN160	96	PDF · web · shop
LV6449-B1	ST110	80 V / 110 A	3	380-440	11121	IP20	DIN160	96	PDF · web · shop
AV6489-B1	ST120	80 V / 130 A	3	380-440	13139	IP20	DIN160	96	PDF · web · shop
LV6489-B1	ST120	80 V / 130 A	3	380-440	13139	IP20	DIN160	96	PDF · web · shop
AV6486-B3	ST120	80 V / 130 A	3	480	13148	IP20	DIN160	96	PDF · web · shop
LV6486-B3	ST120	80 V / 130 A	3	480	13148	IP20	DIN160	96	PDF · web · shop
LX6489-3073	ST120	90 V / 130 A	3	380-440	13208	IP20	DIN320	95	PDF · web · shop
AV9429-B1	ST120	96 V / 100 A	3	380-440	12104	IP20	DIN160	96	PDF · web · shop
LV9429-B1	ST120	96 V / 100 A	3	380-440	12104	IP20	DIN160	96	PDF · web · shop
LV9426-B3	ST120	96 V / 100 A	3	480	12110	IP20	DIN160	96	PDF · web · shop
AV9426-B3	ST120	96 V / 100 A	3	480	12110	IP20	DIN160	96	PDF · web · shop
AV3769-B1	ST130	36 V / 300 A	3	380-440	14091	IP20	DIN320	94.6	PDF · web · shop
LV3769-B1	ST130	36 V / 300 A	3	380-440	14091	IP20	DIN320	94.6	PDF · web · shop
AV3766-B3	ST130	36 V / 300 A	3	480	14091	IP20	DIN320	93.9	PDF · web · shop

ORDER CODE	MODEL	OUTPUT	PH	MAINS V	POWER W	IP	OUTPUT CONN.	EFF. %	DATA
LV3766-B3	ST130	36 V / 300 A	3	480	14091	IP20	DIN320	93.9	PDF · web · shop
AV4669-B1	ST130	48 V / 220 A	3	380-440	13508	IP20	DIN320	95	PDF · web · shop
LV4669-B1	ST130	48 V / 220 A	3	380-440	13508	IP20	DIN320	95	PDF · web · shop
AV4666-B3	ST130	48 V / 220 A	3	480	13564	IP20	DIN320	95	PDF · web · shop
LV4666-B3	ST130	48 V / 220 A	3	480	13564	IP20	DIN320	95	PDF · web · shop
AV4719-B1	ST145	48 V / 250 A	3	380-440	15365	IP20	DIN320	95	PDF · web · shop
LV4719-B1	ST145	48 V / 250 A	3	380-440	15365	IP20	DIN320	95	PDF · web · shop
AV4716-B3	ST145	48 V / 250 A	3	480	15438	IP20	DIN320	95.3	PDF · web · shop
LV4716-B3	ST145	48 V / 250 A	3	480	15438	IP20	DIN320	95.3	PDF · web · shop
AV6529-B1	ST145	80 V / 150 A	3	380-440	15173	IP20	DIN160	95.7	PDF · web · shop
LV6529-B1	ST145	80 V / 150 A	3	380-440	15173	IP20	DIN160	95.7	PDF · web · shop
AV6526-B3	ST145	80 V / 150 A	3	480	15163	IP20	DIN160	96.1	PDF · web · shop
LV6526-B3	ST145	80 V / 150 A	3	480	15163	IP20	DIN160	96.1	PDF · web · shop
AV7429-B1	ST145	120 V / 100 A	3	380-440	15117	IP20	DIN160	95.6	PDF · web · shop
LV7429-B1	ST145	120 V / 100 A	3	380-440	15117	IP20	DIN160	95.6	PDF · web · shop
AV7426-B3	ST145	120 V / 100 A	3	480	15123	IP20	DIN160	96.1	PDF · web · shop
LV7426-B3	ST145	120 V / 100 A	3	480	15123	IP20	DIN160	96.1	PDF · web · shop

05

SL chargers

Micropower SL

High-power stationary chargers built from redundant power units, for large batteries and fleets (roughly 14 to 39 kW per charger).



OUTPUT VOLTAGE	OUTPUT CURRENT	MAINS	PROTECTION
36 – 120 V	90 – 800 A	3-phase	IP21

Micropower SL

ORDER CODE	MODEL	OUTPUT	PH	MAINS V	POWER W	IP	OUTPUT CONN.	EFF. %	DATA
DA4556-B3/0	SL100	48 V / 165 A	3	480	10129	IP21	DIN320	95	PDF · web · shop
EA4556-B3/0	SL100	48 V / 165 A	3	480	10129	IP21	DIN320	95	PDF · web · shop
EA6486-B3/0	SL120	80 V / 130 A	3	480	13023	IP21	DIN160	96	PDF · web · shop
DA6486-B3/0	SL120	80 V / 130 A	3	480	13023	IP21	DIN160	96	PDF · web · shop
EA9446-B3/0	SL130	96 V / 110 A	3	480	13371	IP21	DIN160	95	PDF · web · shop
DA7406-B3/0	SL130	120 V / 90 A	3	480	13516	IP21	DIN160	96	PDF · web · shop
EA7406-B3/0	SL130	120 V / 90 A	3	480	13516	IP21	DIN160	96	PDF · web · shop
DB4719	SL140	48 V / 250 A	3	380-440	15306	IP21	DIN320	95	PDF · web · shop
EB4719	SL140	48 V / 250 A	3	380-440	15306	IP21	DIN320	95	PDF · web · shop
DB3816-B3/0	SL150	36 V / 350 A	3	480	16363	IP21	-	94	PDF · web · shop
EB3816-B3/0	SL150	36 V / 350 A	3	480	16363	IP21	-	94	PDF · web · shop
DB4726-B3/0	SL150	48 V / 260 A	3	480	15961	IP21	DIN320	95	PDF · web · shop
EB4726-B3/0	SL150	48 V / 260 A	3	480	15961	IP21	DIN320	95	PDF · web · shop
DB6549	SL150	80 V / 160 A	3	380-440	16157	IP21	DIN160	96	PDF · web · shop
EB6549	SL150	80 V / 160 A	3	380-440	16157	IP21	DIN160	96	PDF · web · shop
DA3626-B3/0	SL170	36 V / 200 A	3	480	9333	IP21	DIN320	94	PDF · web · shop
EA3626-B3/0	SL170	36 V / 200 A	3	480	9333	IP21	DIN320	94	PDF · web · shop
DB3866	SL170	36 V / 400 A	3	480	18925	IP21	-	93	PDF · web · shop
EB3866-B3/0	SL170	36 V / 400 A	3	480	18675	IP21	DIN640	94	PDF · web · shop
DB3866-B3/0	SL170	36 V / 400 A	3	480	18675	IP21	DIN640	94	PDF · web · shop
EB3866	SL170	36 V / 400 A	3	480	18925	IP21	-	93	PDF · web · shop
EF3866-B3/A	SL170	36 V / 400 A	3	480	18663	IP21	2xDIN320	94	PDF · web · shop
DF3866-B3/A	SL170	36 V / 400 A	3	480	18663	IP21	2xDIN320	94	PDF · web · shop
DB4769	SL170	48 V / 300 A	3	380-440	18484	IP21	DIN320	94,9	PDF · web · shop
EB4769	SL170	48 V / 300 A	3	380-440	18427	IP21	DIN320	95	PDF · web · shop
DB4766-B3/0	SL170	48 V / 300 A	3	480	18418	IP21	DIN320	95	PDF · web · shop
EB4766-B3/0	SL170	48 V / 300 A	3	480	18418	IP21	DIN320	95	PDF · web · shop
EB6586-B3/0	SL170	80 V / 180 A	3	480	18048	IP21	DIN320	96	PDF · web · shop
DB6586-B3/0	SL170	80 V / 180 A	3	480	18048	IP21	DIN320	96	PDF · web · shop
DB7476	SL180	V / A							PDF · web · shop
DB4789	SL180	48 V / 320 A	3	380-440	19638	IP21	DIN320	95	PDF · web · shop
EB4789	SL180	48 V / 320 A	3	380-440	19638	IP21	DIN320	95	PDF · web · shop
EB9549	SL180	96 V / 160 A	3	380-440	19408	IP21	DIN160	96	PDF · web · shop
EB9546-B3/0	SL180	96 V / 160 A	3	480	19479	IP21	DIN160	95	PDF · web · shop

ORDER CODE	MODEL	OUTPUT	PH	MAINS V	POWER W	IP	OUTPUT CONN.	EFF. %	DATA
DB7476-B3/0	SL180	120 V / 125 A	3	480	18781	IP21	DIN160	96	PDF · web · shop
EB7476-B3/0	SL180	120 V / 125 A	3	480	18781	IP21	DIN160	96	PDF · web · shop
DB4796-B3/0	SL190	48 V / 330 A	3	480	20280	IP21	-	95	PDF · web · shop
EB4796-B3/0	SL190	48 V / 330 A	3	480	20280	IP21	-	95	PDF · web · shop
DF4796-B3/A	SL190	48 V / 330 A	3	480	20260	IP21	2xDIN320	95	PDF · web · shop
EF4796-B3/A	SL190	48 V / 330 A	3	480	20260	IP21	2xDIN320	95	PDF · web · shop
DB6629	SL190	80 V / 200 A	3	380-440	20188	IP21	DIN320	96	PDF · web · shop
EB6629	SL190	80 V / 200 A	3	380-440	20188	IP21	DIN320	96	PDF · web · shop
DB7589-3073	SL190	90 V / 180 A	3	380-440	20458	IP21	DIN320	96	PDF · web · shop
EB7489	SL190	120 V / 130 A	3	380-440	19673	IP21	DIN160	96	PDF · web · shop
DB7489	SL190	120 V / 130 A	3	380-440	19673	IP21	DIN160	96	PDF · web · shop
DC4869	SL230	48 V / 400 A	3	380-440	24565	IP21	DIN640	95	PDF · web · shop
EC4869	SL230	48 V / 400 A	3	380-440	24565	IP21	DIN640	95	PDF · web · shop
DE4866-B3/0	SL230	48 V / 400 A	3	480	24641	IP21	DIN640	95	PDF · web · shop
EE4866-B3/0	SL230	48 V / 400 A	3	480	24641	IP21	DIN640	95	PDF · web · shop
DE4866-B3/A	SL230	48 V / 400 A	3	480	24527	IP21	2xDIN640	95	PDF · web · shop
EE4866-B3/A	SL230	48 V / 400 A	3	480	24527	IP21	2xDIN640	95	PDF · web · shop
DB6729	SL250	80 V / 260 A	3	380-440	26223	IP21	DIN320	96	PDF · web · shop
EB6729	SL250	80 V / 260 A	3	380-440	26223	IP21	DIN320	96	PDF · web · shop
DB6726-B3/0	SL250	80 V / 260 A	3	480	26080	IP21	DIN320	96	PDF · web · shop
EB6726-B3/0	SL250	80 V / 260 A	3	480	26080	IP21	DIN320	96	PDF · web · shop
EB6729-3073	SL250	90 V / 260 A	3	380-440	26223	IP21	Cobra	96	PDF · web · shop
EB9669	SL250	96 V / 220 A	3	380-440	26640	IP21	DIN320	96	PDF · web · shop
EB9666-B3/0	SL250	96 V / 220 A	3	480	26808	IP21	DIN320	95	PDF · web · shop
DE3B06-B3/A	SL260	36 V / 600 A	3	480	27972	IP21	2xDIN640	94	PDF · web · shop
EE3B06-B3/A	SL260	36 V / 600 A	3	480	27972	IP21	2xDIN640	94	PDF · web · shop
DB7589	SL260	120 V / 180 A	3	380-440	27243	IP21	DIN320	96	PDF · web · shop
EB7589	SL260	120 V / 180 A	3	380-440	27243	IP21	DIN320	96	PDF · web · shop
DB7586-B3/0	SL260	120 V / 180 A	3	480	27076	IP21	DIN320	96	PDF · web · shop
EB7586-B3/0	SL260	120 V / 180 A	3	480	27076	IP21	DIN320	96	PDF · web · shop
DE4949	SL280	48 V / 480 A	3	380-440	29454	IP21	2xDIN320	95	PDF · web · shop
EE4949	SL280	48 V / 480 A	3	380-440	29454	IP21	2xDIN320	95	PDF · web · shop
EE4966-B3/A	SL290	48 V / 495 A	3	480	30417	IP21	2xDIN640	95	PDF · web · shop
DE4966-B3/A	SL290	48 V / 495 A	3	480	30417	IP21	2xDIN640	95	PDF · web · shop
EC6769-3073-002	SL290	80 V / 300 A	3	380-440	30310	IP21	Cobra	96	PDF · web · shop
DC6789	SL310	80 V / 320 A	3	380-440	32314	IP21	DIN320	96	PDF · web · shop
EC6789	SL310	80 V / 320 A	3	380-440	32314	IP21	DIN320	96	PDF · web · shop
DE6796-B3/0	SL320	80 V / 330 A	3	480	33123	IP21	-	96	PDF · web · shop
EE6796-B3/0	SL320	80 V / 330 A	3	480	33123	IP21	-	96	PDF · web · shop
DE6796-B3/A	SL320	80 V / 330 A	3	480	33067	IP21	2xDIN320	96	PDF · web · shop
EE6796-B3/A	SL320	80 V / 330 A	3	480	33067	IP21	2xDIN320	96	PDF · web · shop
EE9766-B3/0	SL340	96 V / 295 A	3	480	35918	IP21	DIN320	95	PDF · web · shop
DD3D06-B3/A	SL350	36 V / 800 A	3	480	37459	IP21	2xDIN640	94	PDF · web · shop
ED3D06-B3/A	SL350	36 V / 800 A	3	480	37459	IP21	2xDIN640	94	PDF · web · shop
DD4B16-B3/A	SL350	48 V / 610 A	3	480	37581	IP21	2xDIN640	95	PDF · web · shop
ED4B16-B3/A	SL350	48 V / 610 A	3	480	37581	IP21	2xDIN640	95	PDF · web · shop
DC6859	SL370	80 V / 390 A	3	380-440	39392	IP21	DIN640	96	PDF · web · shop

ORDER CODE	MODEL	OUTPUT	PH	MAINS V	POWER W	IP	OUTPUT CONN.	EFF. %	DATA
EE6859	SL370	80 V / 390 A	3	380-440	39361	IP21	2xDIN320	96	PDF · web · shop
DE6859	SL370	80 V / 390 A	3	380-440	39361	IP21	2xDIN320	96	PDF · web · shop
EC6859	SL370	80 V / 390 A	3	380-440	39392	IP21	DIN640	96	PDF · web · shop
DE6856-B3/0	SL370	80 V / 390 A	3	480	39131	IP21	DIN640	96	PDF · web · shop
EE6856-B3/0	SL370	80 V / 390 A	3	480	39131	IP21	DIN640	96	PDF · web · shop
DE6856-B3/A	SL370	80 V / 390 A	3	480	39115	IP21	2xDIN320	96	PDF · web · shop
EE6856-B3/A	SL370	80 V / 390 A	3	480	39115	IP21	2xDIN320	96	PDF · web · shop
EC9789	SL370	96 V / 320 A	3	380-440	38783	IP21	DIN320	96	PDF · web · shop
DC7729	SL370	120 V / 260 A	3	380-440	39346	IP21	DIN320	96	PDF · web · shop
EC7729	SL370	120 V / 260 A	3	380-440	39346	IP21	DIN320	96	PDF · web · shop
DD4B66-B3/A	SL380	48 V / 660 A	3	480	40708	IP21	2xDIN640	95	PDF · web · shop
ED4B66-B3/A	SL380	48 V / 660 A	3	480	40708	IP21	2xDIN640	95	PDF · web · shop
EE9796-B3/0	SL380	96 V / 330 A	3	480	40204	IP21	-	95	PDF · web · shop
EE9796-B3/A	SL380	96 V / 330 A	3	480	40150	IP21	2xDIN320	95	PDF · web · shop
DE7736-B3/0	SL390	120 V / 270 A	3	480	40610	IP21	DIN320	96	PDF · web · shop
EE7736-B3/0	SL390	120 V / 270 A	3	480	40610	IP21	DIN320	96	PDF · web · shop
DD6936-B3/A	SL450	80 V / 470 A	3	480	47198	IP21	2xDIN320	96	PDF · web · shop
ED6936-B3/A	SL450	80 V / 470 A	3	480	47198	IP21	2xDIN320	96	PDF · web · shop
ED9856-B3/0	SL450	96 V / 390 A	3	480	47499	IP21	DIN640	95	PDF · web · shop
ED9856-B3/A	SL450	96 V / 390 A	3	480	47488	IP21	2xDIN320	95	PDF · web · shop
DD7776-B3/0	SL450	120 V / 310 A	3	480	46652	IP21	DIN320	96	PDF · web · shop
ED7776-B3/0	SL450	120 V / 310 A	3	480	46652	IP21	DIN320	96	PDF · web · shop
DD7776-B3/A	SL450	120 V / 310 A	3	480	46605	IP21	2xDIN320	96	PDF · web · shop
ED7776-B3/A	SL450	120 V / 310 A	3	480	46605	IP21	2xDIN320	96	PDF · web · shop

06

RC onboard chargers

Micropower RC

Compact, high-efficiency onboard chargers of 720 to 1040 W, fitted to the vehicle.



OUTPUT VOLTAGE	OUTPUT CURRENT	MAINS	PROTECTION
12 – 48 V	12 – 50 A	1-phase	IP67

Micropower RC

ORDER CODE	MODEL	OUTPUT	PH	MAINS V	POWER W	IP	OUTPUT CONN.	EFF. %	DATA	NOTI
RD1321-C3	RC7	12 V / 50 A	1	100-240	758	IP67	-	95	PDF · web · shop	
RD2261-C3	RC7	24 V / 25 A	1	100-240	750	IP67	-	96	PDF · web · shop	
RD3201-C3	RC7	36 V / 16 A	1	100-240	750	IP67	-	96	PDF · web · shop	
RD4161-C300000-00	RC7	48 V / 12 A	1	100-240	750	IP67		96	PDF · web · shop	
RD2271-C1	RC9	24 V / 30 A	1	100-240	938	IP67	-	96	PDF · web · shop	24V/ 30A
RD3191-C1	RC10	36 V / 23 A	1	100-240	1042	IP67	-	96	PDF · web · shop	36V/ 23A
RD4221-C1	RC10	48 V / 18 A	1	100-240	1083	IP67	-	96	PDF · web · shop	48V/ 18A

07

Robust (RO) chargers

RO / Robust

Ruggedised chargers with a high IP rating for onboard or stationary use in harsh environments, from about 1.1 to 6.6 kW.



OUTPUT VOLTAGE	OUTPUT CURRENT	MAINS	PROTECTION
24 – 280 V	10 – 115 A	1-phase / 3-phase	IP66

RO / Robust

ORDER CODE	MODEL	OUTPUT	PH	MAINS V	POWER W	IP	EFF. %	DATA	NOTE
M34455-T4	RO66	48 V / 115 A	3	380-480	6875	IP66	96	PDF · web · shop	
S34455-T4	RO66	48 V / 115 A	3	380-480	6875	IP66	96	PDF · web · shop	
M36345-T4	RO66	80 V / 60 A	3	380-480	6875	IP66	96	PDF · web · shop	
S36345-T4	RO66	80 V / 60 A	3	380-480	6875	IP66	96	PDF · web · shop	
M39345-T4	RO66	96 V / 60 A	3	380-480	6875	IP66	96	PDF · web · shop	
S39345-T4	RO66	96 V / 60 A	3	380-480	6875	IP66	96	PDF · web · shop	
S39345-T5	RO66	96 V / 60 A	3	380-480	6875	IP66	96	PDF · web · shop	
M39345-T5	RO66	96 V / 60 A	3	380-480	6875	IP66	96	PDF · web · shop	
ON REQUEST	ROBUST 650W	24 V / 28 A	1	85-270		IP66		PDF · web · shop	
ON REQUEST	ROBUST 2300W	24 V / 80 A	1	195-264		IP66		PDF · web · shop	Fan Cooling
ON REQUEST	ROBUST 2300W	36 V / 53 A	1	195-264		IP66		PDF · web · shop	Fan Cooling
ON REQUEST	ROBUST 2300W	48 V / 40 A	1	195-264		IP66		PDF · web · shop	Fan Cooling
ON REQUEST	ROBUST 3000W	24 V / 105 A	1	195-264		IP66		PDF · web · shop	Fan Cooling
ON REQUEST	ROBUST 3000W	24 V / 105 A	1	55-264		IP66		PDF · web · shop	Fan Cooling
ON REQUEST	ROBUST 3000W	48 V / 60 A	1	195-264		IP66		PDF · web · shop	Fan Cooling
0078580	ROBUST 3000W	96 V / 30 A	1	195-264		IP66	>95%	PDF · web · shop	Fan Cooling
0078570	ROBUST 3000W	280 V / 10 A	1	195-264		IP66	>95%	PDF · web · shop	Fan Cooling

08

Access chargers

Access

Three-phase chargers from about 3 to 26 kW for stationary and onboard use. Radio communication and cloud connectivity give fleet reporting through the GET system.



OUTPUT VOLTAGE	OUTPUT CURRENT	MAINS	PROTECTION
24 – 120 V	20 – 420 A	1-phase / 3-phase	IP20 · IP54

Access

ORDER CODE	MODEL	OUTPUT	PH	MAINS V	POWER W	IP	OUTPUT CONN.	EFF. %	DATA
AA2300	Access 30	24 V / 40 A	1	220-240	1282	IP54	DIN80	92	PDF · web · shop
AB2340	Access 30	24 V / 60 A	1	220-240	1921	IP54	DIN80	92	PDF · web · shop
AB2380	Access 30	24 V / 80 A	1	220-240	2272	IP54	DIN80	92	PDF · web · shop
AC2420	Access 30	24 V / 100 A	1	220-240	3172	IP54	DIN160	93	PDF · web · shop
AA3250	Access 30	36 V / 22 A	1	220-240	1042	IP54	DIN80	92	PDF · web · shop
AB3320	Access 30	36 V / 53 A	1	220-240	2270	IP54	DIN80	92	PDF · web · shop
AA4240	Access 30	48 V / 20 A	1	220-240	1260	IP54	DIN80	92	PDF · web · shop
AB4300	Access 30	48 V / 40 A	1	220-240	2275	IP54	DIN80	92	PDF · web · shop
AC4340	Access 30	48 V / 60 A	1	220-240	3409	IP54	DIN80	93	PDF · web · shop
AP2383	Access 50	24 V / 80 A	3	200-240	2581	IP20	DIN80	91	PDF · web · shop
AP2423	Access 50	24 V / 100 A	3	200-240	3220	IP20	DIN160	91	PDF · web · shop
AP2483	Access 50	24 V / 130 A	3	200-240	4189	IP20	DIN160	91	PDF · web · shop
AP3343	Access 50	36 V / 60 A	3	200-240	2892	IP20	DIN80	91	PDF · web · shop
AP3383	Access 50	36 V / 80 A	3	200-240	3847	IP20	DIN80	91	PDF · web · shop
AP3433	Access 50	36 V / 105 A	3	200-240	5045	IP20	DIN160	91	PDF · web · shop
AP4343	Access 50	48 V / 60 A	3	200-240	3800	IP20	DIN80	92	PDF · web · shop
AP4383	Access 50	48 V / 80 A	3	200-240	5057	IP20	DIN80	92	PDF · web · shop
AS2523	Access 100	24 V / 150 A	3	208-240	4900	IP20	DIN160	90	PDF · web · shop
AS2563	Access 100	24 V / 170 A	3	208-240	5453	IP20	DIN320	90	PDF · web · shop
AS3483	Access 100	36 V / 130 A	3	208-240	6246	IP20	DIN160	91	PDF · web · shop
AS3523	Access 100	36 V / 150 A	3	208-240	7220	IP20	DIN160	91	PDF · web · shop
AS3563	Access 100	36 V / 170 A	3	208-240	8166	IP20	DIN320	91	PDF · web · shop
UA3666	Access 100	36 V / 220 A	3	480-480	10541	IP20	custom	92	PDF · web · shop
UA3667	Access 100	36 V / 220 A	3	600-600	10657	IP20	custom	91	PDF · web · shop
AS4423	Access 100	48 V / 100 A	3	208-240	6315	IP20	DIN160	92	PDF · web · shop
AS4483	Access 100	48 V / 130 A	3	208-240	8213	IP20	DIN160	92	PDF · web · shop
AR4551	Access 100	48 V / 165 A	3	380-415	10336	IP20	DIN320	93	PDF · web · shop
AS4554	Access 100	48 V / 165 A	3	440-440	10336	IP20	DIN320	93	PDF · web · shop
UA4556	Access 100	48 V / 165 A	3	480-480	10336	IP20	custom	93	PDF · web · shop
UA4557	Access 100	48 V / 165 A	3	600-600	10449	IP20	custom	92	PDF · web · shop
AS6383	Access 100	80 V / 80 A	3	208-240	8306	IP20	DIN80	93	PDF · web · shop
UA6427	Access 100	80 V / 100 A	3	600-600	10376	IP20	custom	93	PDF · web · shop
AX2769	Access 130	24 V / 300 A	3	380-440	9608	IP20	DIN320	92	PDF · web · shop

ORDER CODE	MODEL	OUTPUT	PH	MAINS V	POWER W	IP	OUTPUT CONN.	EFF. %	DATA
AX3769	Access 130	36 V / 300 A	3	380-440	14053	IP20	DIN320	94	PDF · web · shop
AX3766	Access 130	36 V / 300 A	3	460-480	14053	IP20	DIN320	94	PDF · web · shop
AX4669	Access 130	48 V / 220 A	3	380-440	13584	IP20	DIN320	94	PDF · web · shop
AX4666	Access 130	48 V / 220 A	3	460-480	13640	IP20	DIN320	94	PDF · web · shop
AX6489	Access 130	80 V / 130 A	3	380-440	13208	IP20	DIN160	95	PDF · web · shop
AX6486	Access 130	80 V / 130 A	3	460-480	13217	IP20	DIN160	95	PDF · web · shop
AX7406	Access 130	120 V / 90 A	3	460-480	13604	IP20	DIN160	96	PDF · web · shop
AU2763	Access 200	24 V / 300 A	3	208-240	9800	IP20	DIN320	90	PDF · web · shop
AU2761	Access 200	24 V / 300 A	3	380-415	9587	IP20	custom	92	PDF · web · shop
AU2861	Access 200	24 V / 400 A	3	380-415	12941	IP20	DIN640	91	PDF · web · shop
AU3763	Access 200	36 V / 300 A	3	208-240	14440	IP20	DIN320	91	PDF · web · shop
AU3761	Access 200	36 V / 300 A	3	380-415	14283	IP20	DIN320	92	PDF · web · shop
AU3764	Access 200	36 V / 300 A	3	440-440	14283	IP20	custom	92	PDF · web · shop
AU3803	Access 200	36 V / 340 A	3	208-240	16395	IP20	DIN640	91	PDF · web · shop
MA3806	Access 200	36 V / 340 A	3	480-480	16217	IP20	custom	92	PDF · web · shop
AU3864	Access 200	36 V / 400 A	3	440-440	19061	IP20	DIN640	92	PDF · web · shop
AU3874	Access 200	36 V / 410 A	3	440-440	20348	IP20	custom	92	PDF · web · shop
MA3886	Access 200	36 V / 420 A	3	480-480	20872	IP20	custom	92	PDF · web · shop
MA3887	Access 200	36 V / 420 A	3	600-600	21102	IP20	custom	91	PDF · web · shop
AU4623	Access 200	48 V / 200 A	3	208-240	12609	IP20	custom	92	PDF · web · shop
AU4621	Access 200	48 V / 200 A	3	380-415	12516	IP20	DIN320	93	PDF · web · shop
AU4624	Access 200	48 V / 200 A	3	440-440	12516	IP20	DIN320	93	PDF · web · shop
AU4723	Access 200	48 V / 260 A	3	208-240	16425	IP20	DIN320	92	PDF · web · shop
AU4721	Access 200	48 V / 260 A	3	380-415	16249	IP20	DIN320	93	PDF · web · shop
AU4724	Access 200	48 V / 260 A	3	440-440	16249	IP20	DIN320	93	PDF · web · shop
MA4726	Access 200	48 V / 260 A	3	480-480	16321	IP20	custom	93	PDF · web · shop
AU4761	Access 200	48 V / 300 A	3	380-415	18774	IP20	DIN320	93	PDF · web · shop
MA4766	Access 200	48 V / 300 A	3	480-480	18774	IP20	custom	93	PDF · web · shop
AU4781	Access 200	48 V / 320 A	3	380-415	20040	IP20	DIN320	93	PDF · web · shop
MA4786	Access 200	48 V / 320 A	3	480-480	20040	IP20	custom	93	PDF · web · shop
AU4791	Access 200	48 V / 330 A	3	380-415	20673	IP20	DIN640	93	PDF · web · shop
MA4796	Access 200	48 V / 330 A	3	480-480	20673	IP20	custom	93	PDF · web · shop
MA4797	Access 200	48 V / 330 A	3	600-600	20898	IP20	custom	92	PDF · web · shop
AU6463	Access 200	80 V / 120 A	3	208-240	12465	IP20	DIN160	93	PDF · web · shop
AU6461	Access 200	80 V / 120 A	3	380-415	12332	IP20	DIN160	94	PDF · web · shop
AU6543	Access 200	80 V / 160 A	3	208-240	16626	IP20	DIN160	93	PDF · web · shop
AU6541	Access 200	80 V / 160 A	3	380-415	16449	IP20	DIN160	94	PDF · web · shop
AU6544	Access 200	80 V / 160 A	3	440-440	16449	IP20	DIN160	94	PDF · web · shop
MA6546	Access 200	80 V / 160 A	3	480-480	16449	IP20	custom	94	PDF · web · shop
AU6621	Access 200	80 V / 200 A	3	380-415	20553	IP20	DIN320	94	PDF · web · shop
AU6624	Access 200	80 V / 200 A	3	440-440	20553	IP20	DIN320	94	PDF · web · shop
MA6626	Access 200	80 V / 200 A	3	480-480	20596	IP20	custom	94	PDF · web · shop
MA6627	Access 200	80 V / 200 A	3	600-600	20817	IP20	custom	93	PDF · web · shop
AY6729	Access 260	80 V / 260 A	3	380-440	26416	IP20	DIN320	95	PDF · web · shop
AY6726	Access 260	80 V / 260 A	3	460-480	26437	IP20	DIN320	95	PDF · web · shop
AY7589	Access 260	120 V / 180 A	3	380-440	27215	IP20	DIN320	96	PDF · web · shop
AY7586	Access 260	120 V / 180 A	3	460-480	27218	IP20	DIN320	96	PDF · web · shop

ORDER CODE	MODEL	OUTPUT	PH	MAINS V	POWER W	IP	OUTPUT CONN.	EFF. %	DATA
ON REQUEST	Access Ecotec	V / A	3	208/240/480/600					PDF · web · shop
ON REQUEST	Access Shelf Mount Charger	V / A	3	480					PDF · web · shop

09

Lion chargers

Lion

Chargers for lithium-ion batteries with CAN-bus communication to the battery management system. Suitable for fast and opportunity charging, about 1.1 to 26 kW.



OUTPUT VOLTAGE	OUTPUT CURRENT	MAINS	PROTECTION
24 – 120 V	35 – 420 A	1-phase / 3-phase	IP20 · IP54

Lion

ORDER CODE	MODEL	OUTPUT	PH	MAINS V	POWER W	IP	OUTPUT CONN.	EFF. %	DATA
L12291	Lion 11	24 V / 35 A	1	100-240	990	IP20	custom	92	PDF · web · shop
L12300	Lion 11	24 V / 40 A	1	220-240	1307	IP20	custom	92	PDF · web · shop
LA2300	LION 30	24 V / 40 A	1	220-240	1282	IP54	DIN80	92	PDF · web · shop
LB2380	LION 30	24 V / 80 A	1	220-240	2272	IP54	DIN80	92	PDF · web · shop
LC2420	LION 30	24 V / 100 A	1	220-240	3172	IP54	DIN160	93	PDF · web · shop
LB4300	LION 30	48 V / 40 A	1	220-240	2275	IP54	DIN80	92	PDF · web · shop
LC4340	LION 30	48 V / 60 A	1	220-240	3409	IP54	DIN80	93	PDF · web · shop
LP2483	LION 50	24 V / 130 A	3	200-240	4189	IP20	DIN160	91	PDF · web · shop
LP3433	LION 50	36 V / 105 A	3	200-240	5045	IP20	DIN160	91	PDF · web · shop
LP4383	LION 50	48 V / 80 A	3	200-240	5057	IP20	DIN80	92	PDF · web · shop
LS2563	LION 100	24 V / 170 A	3	208-240	5453	IP20	DIN320	90	PDF · web · shop
LS2566	LION 100	24 V / 170 A	3	480	5495	IP20	DIN320	91	PDF · web · shop
LS3563	LION 100	36 V / 170 A	3	208-240	8166	IP20	DIN320	91	PDF · web · shop
LS3621	LION 100	36 V / 200 A	3	380-415	9522	IP20	DIN320	92	PDF · web · shop
LS3624	LION 100	36 V / 200 A	3	440-440	9522	IP20	DIN320	92	PDF · web · shop
LT3666	LION 100	36 V / 220 A	3	480	10494	IP20	DIN320	92	PDF · web · shop
LS4483	LION 100	48 V / 130 A	3	208-240	8213	IP20	DIN160	92	PDF · web · shop
LR4551	LION 100	48 V / 165 A	3	380-415	10336	IP20	DIN320	93	PDF · web · shop
LS4551	LION 100	48 V / 165 A	3	380-415	10336	IP20	DIN320	93	PDF · web · shop
LS4554	LION 100	48 V / 165 A	3	440-440	10336	IP20	DIN320	93	PDF · web · shop
LT4556	LION 100	48 V / 165 A	3	480	10325	IP20	DIN320	93	PDF · web · shop
LS6383	LION 100	80 V / 80 A	3	208-240	8306	IP20	DIN80	93	PDF · web · shop
LT6426	LION 100	80 V / 100 A	3	480	10272	IP20	DIN160	94	PDF · web · shop
LX2769	LION 130	24 V / 300 A	3	380-440	9608	IP20	DIN320	92	PDF · web · shop
LX3769	LION 130	36 V / 300 A	3	380-440	14053	IP20	DIN320	94	PDF · web · shop
LX3766	LION 130	36 V / 300 A	3	460-480	14053	IP20	DIN320	94	PDF · web · shop
LX4559	LION 130	48 V / 165 A	3	380-440	10226	IP20	DIN320	94	PDF · web · shop
LX4669	LION 130	48 V / 220 A	3	380-440	13584	IP20	DIN320	94	PDF · web · shop
LX4666	LION 130	48 V / 220 A	3	460-480	13640	IP20	DIN320	94	PDF · web · shop
LX6489	LION 130	80 V / 130 A	3	380-440	13208	IP20	DIN160	95	PDF · web · shop
LX6486	LION 130	80 V / 130 A	3	460-480	13217	IP20	DIN160	95	PDF · web · shop
LX7409	LION 130	120 V / 90 A	3	380-440	13599	IP20	DIN160	96	PDF · web · shop
LX7406	LION 130	120 V / 90 A	3	460-480	13604	IP20	DIN160	96	PDF · web · shop

ORDER CODE	MODEL	OUTPUT	PH	MAINS V	POWER W	IP	OUTPUT CONN.	EFF. %	DATA
LU2763	LION 200	24 V / 300 A	3	208-240	9800	IP20	DIN320	90	PDF · web · shop
LU2861	LION 200	24 V / 400 A	3	380-415	12941	IP20	DIN640	91	PDF · web · shop
LU3761	LION 200	36 V / 300 A	3	380-415	14283	IP20	DIN320	92	PDF · web · shop
LU3803	LION 200	36 V / 340 A	3	200-240	15461	IP20	custom	91	PDF · web · shop
LU3861	LION 200	36 V / 400 A	3	380-415	19061	IP20	DIN640	92	PDF · web · shop
LU3864	LION 200	36 V / 400 A	3	440-440	19061	IP20	DIN640	92	PDF · web · shop
LU3874	LION 200	36 V / 410 A	3	440-440	19234	IP20	custom	92	PDF · web · shop
LU3886	LION 200	36 V / 420 A	3	480	20011	IP20	DIN640	92	PDF · web · shop
LU4623	LION 200	48 V / 200 A	3	208-240	12652	IP20	DIN320	92	PDF · web · shop
LU4723	LION 200	48 V / 260 A	3	208-240	16425	IP20	DIN320	92	PDF · web · shop
LU4721	LION 200	48 V / 260 A	3	380-415	16249	IP20	DIN320	93	PDF · web · shop
LU4724	LION 200	48 V / 260 A	3	440-440	16249	IP20	DIN320	93	PDF · web · shop
LU4761	LION 200	48 V / 300 A	3	380-415	18774	IP20	DIN320	93	PDF · web · shop
LU4791	LION 200	48 V / 330 A	3	380-415	20673	IP20	DIN640	93	PDF · web · shop
LU4794	LION 200	48 V / 330 A	3	440-440	20673	IP20	DIN640	93	PDF · web · shop
LU4796	LION 200	48 V / 330 A	3	480	20673	IP20	DIN640	93	PDF · web · shop
LU6453	LION 200	80 V / 115 A	3	230-240	11928	IP20	DIN160	93	PDF · web · shop
LU6463	LION 200	80 V / 120 A	3	208-240	12465	IP20	DIN160	93	PDF · web · shop
LU6543	LION 200	80 V / 160 A	3	208-240	16626	IP20	DIN160	93	PDF · web · shop
LU6621	LION 200	80 V / 200 A	3	380-415	20553	IP20	DIN320	94	PDF · web · shop
LU6624	LION 200	80 V / 200 A	3	440-440	20553	IP20	DIN320	94	PDF · web · shop
LU6626	LION 200	80 V / 200 A	3	480	20557	IP20	DIN320	94	PDF · web · shop
LY6729	LION 260	80 V / 260 A	3	380-440	26416	IP20	DIN320	95	PDF · web · shop
LY7589	LION 260	120 V / 180 A	3	380-440	27215	IP20	DIN320	96	PDF · web · shop
LY7586	LION 260	120 V / 180 A	3	460-480	27218	IP20	DIN320	96	PDF · web · shop

10

Sharp chargers

Sharp

Regulated and primary-switched chargers from 100 W to about 10 kW with multiple charging curves for lead-acid and lithium-ion batteries.



OUTPUT VOLTAGE	OUTPUT CURRENT	MAINS	PROTECTION
12 – 80 V	4 – 170 A	1-phase / 3-phase	IP20 · IP54 · IP65 · IP66

Sharp

ORDER CODE	MODEL	OUTPUT	PH	MAINS V	POWER W	IP	OUTPUT CONN.	EFF. %	DATA
924110	SHARP 10	12 V / 7 A	1	110-230	119	IP65	custom	85	PDF · web · shop
924114	SHARP 10	12 V / 10 A	1	208-240	166	IP65	custom	87	PDF · web · shop
924119	SHARP 10	12 V / 17 A	1	208-240	281	IP65	custom	87	PDF · web · shop
924206	SHARP 10	24 V / 4 A	1	110-230	132	IP65	custom	87	PDF · web · shop
924213	SHARP 10	24 V / 9 A	1	208-240	256	IP65	custom	90	PDF · web · shop
924215	SHARP 10	24 V / 11 A	1	208-240	352	IP65	custom	90	PDF · web · shop
S12300	SHARP 11	24 V / 40 A	1	220-240	1282	IP54	DIN80	92	PDF · web · shop
S12306	SHARP 11	24 V / 40 A	1	220-240	1307	IP66	custom	92	PDF · web · shop
924124	SHARP 20	12 V / 20 A	1	220-240	349	IP20	custom	85	PDF · web · shop
924127	SHARP 20	12 V / 30 A	1	220-240	530	IP20	custom	85	PDF · web · shop
924130	SHARP 20	12 V / 40 A	1	220-240	717	IP20	custom	85	PDF · web · shop
924132	SHARP 20	12 V / 50 A	1	220-240	909	IP20	custom	85	PDF · web · shop
924134	SHARP 20	12 V / 60 A	1	220-240	1076	IP20	custom	85	PDF · web · shop
924224	SHARP 20	24 V / 20 A	1	220-240	657	IP20	custom	89	PDF · web · shop
924227	SHARP 20	24 V / 30 A	1	220-240	992	IP20	custom	89	PDF · web · shop
924231	SHARP 20	24 V / 45 A	1	220-240	1488	IP20	custom	89	PDF · web · shop
924234	SHARP 20	24 V / 60 A	1	220-240	1998	IP20	custom	89	PDF · web · shop
924324	SHARP 20	36 V / 20 A	1	220-240	980	IP20	custom	89	PDF · web · shop
924330	SHARP 20	36 V / 40 A	1	220-240	1967	IP20	custom	89	PDF · web · shop
924419	SHARP 20	48 V / 15 A	1	220-240	976	IP20	custom	89	PDF · web · shop
924427	SHARP 20	48 V / 30 A	1	220-240	1956	IP20	custom	89	PDF · web · shop
SA2300	Sharp 30	24 V / 40 A	1	220-240	1282	IP54	DIN80	92	PDF · web · shop
SB2380	Sharp 30	24 V / 80 A	1	220-240	2272	IP54	DIN80	92	PDF · web · shop
SC2420	Sharp 30	24 V / 100 A	1	220-240	3172	IP54	DIN160	93	PDF · web · shop
SA3250	Sharp 30	36 V / 22 A	1	220-240	1042	IP54	DIN80	92	PDF · web · shop
SB3320	Sharp 30	36 V / 53 A	1	220-240	2270	IP54	DIN80	92	PDF · web · shop
SA4240	Sharp 30	48 V / 20 A	1	220-240	1260	IP54	DIN80	92	PDF · web · shop
SB4300	Sharp 30	48 V / 40 A	1	220-240	2275	IP54	DIN80	92	PDF · web · shop
SC4340	Sharp 30	48 V / 60 A	1	220-240	3409	IP54	DIN80	93	PDF · web · shop
SP2383	SHARP 50	24 V / 80 A	3	200-240	2581	IP20	DIN80	91	PDF · web · shop
SP2386	SHARP 50	24 V / 80 A	3	480	2563	IP20	DIN80	92	PDF · web · shop
SP2423	SHARP 50	24 V / 100 A	3	200-240	3220	IP20	DIN160	91	PDF · web · shop
SP2483	SHARP 50	24 V / 130 A	3	200-240	4189	IP20	DIN160	91	PDF · web · shop
SP3343	SHARP 50	36 V / 60 A	3	200-240	2892	IP20	DIN80	91	PDF · web · shop

ORDER CODE	MODEL	OUTPUT	PH	MAINS V	POWER W	IP	OUTPUT CONN.	EFF. %	DATA
SP3383	SHARP 50	36 V / 80 A	3	200-240	3847	IP20	DIN80	91	PDF · web · shop
SP3433	SHARP 50	36 V / 105 A	3	200-240	5045	IP20	DIN160	91	PDF · web · shop
SP4343	SHARP 50	48 V / 60 A	3	200-240	3800	IP20	DIN80	92	PDF · web · shop
SP4383	SHARP 50	48 V / 80 A	3	200-240	5057	IP20	DIN80	92	PDF · web · shop
SS2523	SHARP 100	24 V / 150 A	3	208-240	4900	IP20	DIN160	90	PDF · web · shop
SS2524	SHARP 100	24 V / 150 A	3	440-440	4846	IP20	DIN160	91	PDF · web · shop
SS2563	SHARP 100	24 V / 170 A	3	208-240	5453	IP20	DIN320	90	PDF · web · shop
SS3483	SHARP 100	36 V / 130 A	3	208-240	6246	IP20	DIN160	91	PDF · web · shop
SS3523	SHARP 100	36 V / 150 A	3	208-240	7220	IP20	DIN160	91	PDF · web · shop
SS3563	SHARP 100	36 V / 170 A	3	208-240	8166	IP20	DIN320	91	PDF · web · shop
SS3566	SHARP 100	36 V / 170 A	3	480	8096	IP20	DIN320	92	PDF · web · shop
SS4423	SHARP 100	48 V / 100 A	3	208-240	6315	IP20	DIN160	92	PDF · web · shop
SS4483	SHARP 100	48 V / 130 A	3	208-240	8213	IP20	DIN160	92	PDF · web · shop
SR4551	SHARP 100	48 V / 165 A	3	380-415	10336	IP20	DIN320	93	PDF · web · shop
SS4554	SHARP 100	48 V / 165 A	3	440-440	10336	IP20	DIN320	93	PDF · web · shop
SS999996	SHARP 100	48 V / 165 A	3	480-480	10336	IP20	custom	93	PDF · web · shop
SS6343	SHARP 100	80 V / 60 A	3	208-240	6236	IP20	DIN80	93	PDF · web · shop
SS6383	SHARP 100	80 V / 80 A	3	208-240	8306	IP20	DIN80	93	PDF · web · shop

11

Champ chargers

Champ · Champ Pro

Compact chargers for all battery types in a sealed housing (IP67 versions available), for vehicles and machines in wet and dusty environments.



OUTPUT VOLTAGE	OUTPUT CURRENT	MAINS	PROTECTION
12 – 24 V	5 – 30 A	1-phase	IP67

Champ · Champ Pro

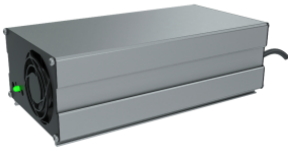
ORDER CODE	MODEL	OUTPUT	PH	MAINS V	IP	DATA
0033330	Champ	12 V / 7 A	1	90-270		PDF · web · shop
0043884	Champ	12 V / 17 A	1	190-254	IP67	PDF · web · shop
0043904	Champ	12 V / 30 A	1	190-254	IP67	PDF · web · shop
0033351	Champ	24 V / 5 A	1	90-270	IP67	PDF · web · shop
0043887	Champ	24 V / 12 A	1	190-254	IP67	PDF · web · shop
0043908	Champ	24 V / 20 A	1	190-254	IP67	PDF · web · shop
0043880	Champ Pro	12 V / 17 A	1	190-254	IP67	PDF · web · shop
0043890	Champ Pro	12 V / 30 A	1	190-254	IP67	PDF · web · shop
0043881	Champ Pro	24 V / 12 A	1	190-254	IP67	PDF · web · shop
0043891	Champ Pro	24 V / 20 A	1	190-254	IP67	PDF · web · shop

12

ABC chargers

ABC

Universal 600 W to 1.6 kW chargers for lead-acid, GEL/AGM, NiCd and lithium-ion batteries, including military versions.



OUTPUT VOLTAGE	OUTPUT CURRENT	MAINS	PROTECTION
12 – 96 V	7.5 – 100 A	1-phase	IP20, · IP21

ABC

ORDER CODE	MODEL	OUTPUT	PH	MAINS V	IP	DATA	NOTE
0036155	ABC	12 V / 40 A	1	90-255	IP21	PDF · web · shop	
0036160	ABC	12 V / 50 A	1	90-255	IP21	PDF · web · shop	
0036170	ABC	12 V / 60 A	1	90-255	IP21	PDF · web · shop	
0036178	ABC	12 V / 100 A	1	90-255		PDF · web · shop	
0036040	ABC	24 V / 40 A	1	90-255	IP21	PDF · web · shop	
0036050	ABC	24 V / 50 A	1	90-255	IP21	PDF · web · shop	
0036061	ABC	24 V / 60 A	1	90-255	IP21	PDF · web · shop	
0036415	ABC	48 V / 15 A	1	90-255	IP21	PDF · web · shop	
0036430	ABC	48 V / 30 A	1	90-255	IP21	PDF · web · shop	
0036460	ABC	72 V / 10 A	1	90-255	IP21	PDF · web · shop	
0036476	ABC	96 V / 7.5 A	1	90-255	IP21	PDF · web · shop	
0036030	ABC CHARGER MIL	24 V / 30 A	1	90-255	IP21	PDF · web · shop	
0036878	ABC CHARGER MIL	24 V / 80 A	1	90-255	IP20	PDF · web · shop	3200W 24V/80A
0036871BAE	ABC CHARGER MIL	28 V / 60 A	1	90-255	IP21	PDF · web · shop	

13

PAC/PAP chargers and power supplies

PAC / PAP

PAC = Powerfinn Advanced Charger, PAP = Powerfinn Advanced Power supply (e.g. trimmer adjustable, analogue controlled or CAN). High-frequency switching, compact, lightweight and customisable.



OUTPUT VOLTAGE	OUTPUT CURRENT	MAINS	PROTECTION
12 – 96 V	7.5 – 120 A	1-phase	IP20 · IP22

PAC / PAP

ORDER CODE	MODEL	OUTPUT	PH	MAINS V	IP	DATA	NOTE
ON REQUEST	PAC/PAP 750U 750W	12 V / 40 A	1	55-250	IP20	PDF · web · shop	Fan Cooling
ON REQUEST	PAC/PAP 750U 750W	24 V / 30 A	1	55-250	IP20	PDF · web · shop	Fan Cooling
ON REQUEST	PAC/PAP 750U 750W	36 V / 20 A	1	55-250	IP20	PDF · web · shop	Fan Cooling
ON REQUEST	PAC/PAP 750U 750W	48 V / 15 A	1	55-250	IP20	PDF · web · shop	Fan Cooling
ON REQUEST	PAC/PAP 750U 750W	72 V / 7.5 A	1	55-250	IP20	PDF · web · shop	Fan Cooling
ON REQUEST	PAC/PAP 750U 750W	96 V / 7.5 A	1	55-250	IP20	PDF · web · shop	Fan Cooling
ON REQUEST	PAC/PAP 800UL 800W	24 V / 30 A	1	55-140	IP20	PDF · web · shop	Fan Cooling
ON REQUEST	PAC/PAP 800UL 800W	36 V / 20 A	1	55-140	IP20	PDF · web · shop	Fan Cooling
ON REQUEST	PAC/PAP 800UL 800W	48 V / 15 A	1	55-140	IP20	PDF · web · shop	Fan Cooling
ON REQUEST	PAC/PAP 800W	12 V / 50 A	1	55-250		PDF · web · shop	
ON REQUEST	PAC/PAP 800W	72 V / 10 A	1	55-250		PDF · web · shop	
ON REQUEST	PAC/PAP 1600W	12 V / 120 A	1	50-250	IP22	PDF · web · shop	Fan Cooling
ON REQUEST	PAC/PAP 1600W	24 V / 60 A	1	55-250	IP22	PDF · web · shop	Fan Cooling
ON REQUEST	PAC/PAP 1600W	36 V / 40 A	1	50-250	IP22	PDF · web · shop	Fan Cooling
ON REQUEST	PAC/PAP 1600W	48 V / 30 A	1	50-250	IP22	PDF · web · shop	Fan Cooling
ON REQUEST	PAC/PAP 600	24 V / 20 A				shop	
ON REQUEST	PAC/PAP 800	24 V / 30 A				shop	
ON REQUEST	PAC/PAP 800	36 V / 20 A				shop	
ON REQUEST	PAC/PAP 800	48 V / 15 A				shop	
ON REQUEST	PAC/PAP 800	96 V / 7.5 A				shop	
ON REQUEST	PAP802 adjustable	0-36 V / 0-30 A				shop	
ON REQUEST	PAP802 adjustable	0-54 V / 0-20 A				shop	
OE00109P	PAP802 adjustable	0-72 V / 0-15 A				shop	
OE00110S	PAP802 adjustable	0-108 V / 0-10 A				shop	
ON REQUEST	PAP802 adjustable	0-144 V / 0-7.5 A				shop	
ON REQUEST	PAP801 slave for PAP802	0-36 V / 0-30 A				shop	
ON REQUEST	PAP801 slave for PAP802	0-54 V / 0-20 A				shop	
ON REQUEST	PAP801 slave for PAP802	0-72 V / 0-15 A				shop	
ON REQUEST	PAP801 slave for PAP802	0-108 V / 0-10 A				shop	
ON REQUEST	PAP801 slave for PAP802	0-144 V / 0-7.5 A				shop	
ON REQUEST	PAC/PAP 1300UL	24 V / 50 A				shop	
ON REQUEST	PAC/PAP 1300UL	36 V / 33 A				shop	

ORDER CODE	MODEL	OUTPUT	PH	MAINS V	IP	DATA	NOTE
ON REQUEST	PAC/PAP 1300UL	48 V / 25 A				shop	
ON REQUEST	PAC/PAP 3200	12 V / 200 A				shop	
ON REQUEST	PAC/PAP 3200	24 V / 127 A				shop	
ON REQUEST	PAC/PAP 3200	36 V / 95.5 A				shop	
ON REQUEST	PAC/PAP 3200	48 V / 64 A				shop	
ON REQUEST	PAC/PAP 3200	72 V / 42 A				shop	
ON REQUEST	PAC/PAP 3200	110 V / 25 A				shop	
ON REQUEST	PAC/PAP 3200	160 V / 20 A				shop	
ON REQUEST	PAC/PAP 3200	220 V / 14 A				shop	
ON REQUEST	PAC/PAP 3200HV	220 V / 14 A				shop	
ON REQUEST	PAC/PAP 3200HV	280 V / 10 A				shop	
ON REQUEST	PAC/PAP 3200HV	560 V / 5 A				shop	
ON REQUEST	PAC/PAP 3200HV	900 V / 3.5 A				shop	

14

Workshop and rescue chargers

Workshop · Rescue

Workshop chargers for 12 V and 24 V batteries, and charger programmes and options for rescue-service vehicles.



OUTPUT VOLTAGE	OUTPUT CURRENT	MAINS	PROTECTION
4.2 – 120 V	10 – 100 A	1-phase	IP20 · IP21 · IP67

Workshop · Rescue

ORDER CODE	MODEL	OUTPUT	PH	MAINS V	IP	DATA	NOTE
ON REQUEST	CDU	4.2 V / 30 A	1	110-240	IP20	PDF · web · shop	4.2V/30A
OE23601U	SMP	120 V / 10 A	1	220-240	IP20	PDF · web · shop	
0036834	Workshop charger	V / A	1	90-270		PDF · web · shop	12/24/70/60
0036840P	Workshop charger	V / A	1	90-270		PDF · web · shop	
0043884R	Rescue	14.1 V / 17 A	1	190-254	IP67	PDF · web · shop	Champ 12V/17A
0043904R	Rescue	14.1 V / 30 A	1	190-254	IP67	PDF · web · shop	Champ 12V/30A
0036175R	Rescue	14.1 V / 60 A	1	190-254	IP21	PDF · web · shop	ABC 12V/60A
0036178R	Rescue	14.1 V / 100 A	1	190-254	IP21	PDF · web · shop	ABC 12V/100A

PRODUCT RANGE

Micropower DC-DC converters

DC-DC converters, chargers and equalizers from Micropower for industrial vehicles, AGVs and machines: compact IP21 units and sealed IP67 versions, isolated and non-isolated, for 12, 24, 48 and 80 V systems.

up to 96 %
efficiency

IP21 · IP67
compact and sealed versions

70 – 700 W
output power

Click **shop** next to a product to open it in our webshop, or **PDF** for the manufacturer's datasheet. Need a quote or a special version? **Request a quote**.

Micropower DC-DC converters from MK-Controls Oy. Prices, lead times and special versions on request.

01



Non-isolated DC-DC converters
Non-isolated

02



Isolated DC-DC converters
Isolated

03



DC-DC chargers
DC-DC charger

04



DC-DC equalizers
Equalizer

05



Defence (MIL) products
MIL

Contents

Choosing a DC-DC converter
01 Non-isolated DC-DC converters
02 Isolated DC-DC converters
03 DC-DC chargers
04 DC-DC equalizers
05 Defence (MIL) products

GUIDE

Choosing a DC-DC converter

Pick the converter by the voltage you have and the voltage your load needs, then by power and by whether the circuits must be isolated.

Which converter for my voltages?

Input voltage (DC)	12 V output	24 V output
9 – 16 V	200 W Charger	
9 – 36 V	200 W Converter	200 W Converter
10 – 16 V		700 W Converter
18 – 32 V	400 W Converter	200 W · 400 W Charger / Converter
18 – 36 V	70 W · 200 W · 400 W Converter	
24 V	Equalizer	
33 – 65 V	200 W · 400 W Converter	200 W · 400 W Converter
60 – 110 V	400 W Converter	400 W Converter

Rows = input voltage range of your supply, columns = the voltage your load needs. A filled cell shows the power classes available. Isolated types separate the two circuits galvanically; choose them for sensitive electronics, communication equipment and where the input and output ground must not be connected.

Converter, charger or equalizer?

Isolated converter

Input and output are separated galvanically. Use for sensitive electronics, communication and where grounds must not be linked.

Non-isolated converter

Smaller, cheaper and very efficient. Input and output share a common reference – fine for most vehicle loads.

DC-DC charger

Charges a second battery (for example an auxiliary 12 V battery) from the main battery with a proper charge characteristic.

Equalizer

Keeps the voltage balanced between series-connected batteries or taps a lower voltage from a higher one, at high current.

01

Non-isolated DC-DC converters

Non-isolated

Compact 24 V to 12 V converters for auxiliary loads such as lighting, fans and control electronics. Switching technology with efficiency up to 96 %; protected against reverse polarity, short circuit and overload. IP21 housing as standard, IP67 version for wet and dusty installations.



INPUT VOLTAGE	OUTPUT VOLTAGE	POWER	PROTECTION
18 – 36 V	12.5 V	70 – 400 W	IP21 · IP67

Non-isolated · IP21

ORDER CODE	MODEL	INPUT V	OUTPUT V	CURRENT A	SIZE MM	KG	CONNECTION	DATA
0060367	24V/12V 70W	18-36	12.5	5	116×88×18	0.18	Faston 6.3	web · shop
0060368	24V/12V 200W	18-36	12.5	10	116×88×18	0.19	Faston 6.3	web · shop
0060363	24V/12V 400W	18-36	12.5	30	116×88×18	0.2	Faston 6.3	web · shop

Non-isolated · IP67

ORDER CODE	MODEL	INPUT V	OUTPUT V	CURRENT A	SIZE MM	KG	CONNECTION	DATA
0060363IP	24V/12V 400W	18-36	12.5	30	150×93×31	0.82	Cable	web · shop

02

Isolated DC-DC converters

Isolated

Converters with full galvanic isolation between input and output, for wide or unregulated input voltages (9–36 V) and for 24, 48 and 80 V battery systems. IP21 and sealed IP67 versions.



INPUT VOLTAGE	OUTPUT VOLTAGE	POWER	PROTECTION
9 – 110 V	12 – 24 V	200 – 700 W	IP21 · IP67

Isolated · IP21

ORDER CODE	MODEL	INPUT V	OUTPUT V	CURRENT A	SIZE MM	KG	CONNECTION	DATA
0060316	9-36V/12V 200W	9-36	12	16	116×88×18	0.2	Faston 6.3	web · shop
0060317	9-36V/24V 200W	9-36	24	8	116×88×18	0.2	Faston 6.3	web · shop
0060332	48V/12V 200W	33-65	12		116×88×18	0.2	Faston 6.3	web · shop
0060333	48V/24V 200W	33-65	24	8	116×88×18	0.2	Faston 6.3	web · shop

Isolated · IP67

ORDER CODE	MODEL	INPUT V	OUTPUT V	CURRENT A	SIZE MM	KG	CONNECTION	DATA
0060316IP	9-36V/12V 200W	9-36	12	16	150×93×31	0.82	Cable	web · shop
0060317IP	9-36V/24V 200W	9-36	24	8	150×93×31	0.82	Cable	web · shop
HA2261-D10101-01	12V/24V 700W	10-16	24	24	150×93×39.5	1	Cable	PDF · web · shop
0060321IP	24V/12V 400W	18-32	12	32	150×93×31	0.82	Cable	web · shop
0060324IP	24V/24V 400W	18-32	24	16	150×93×31	0.82	Cable	web · shop
0060332IP	48V/12V 200W	33-65	12	16	150×93×31	0.82	Cable	web · shop
0060322IP	48V/12V 400W	33-65	12	32	150×93×31	0.82	Cable	web · shop
0060333IP	48V/24V 200W	33-65	24	8	150×93×31	0.82	Cable	web · shop
0060323IP	48V/24V 400W	33-65	24	16	150×93×31	0.82	Cable	web · shop
0060328IP	80V/12V 400W	60-110	12	33	150×93×31	0.82	Cable	web · shop
0060329IP	80V/24V 400W	60-110	24	18	150×93×31	0.82	Cable	web · shop

03

DC-DC chargers

DC-DC charger

Compact DC-DC chargers for 12 V and 24 V systems, charging an auxiliary battery from the vehicle supply. IP21 and IP67 versions.



INPUT VOLTAGE	OUTPUT VOLTAGE	POWER	PROTECTION
9 – 32 V	12 – 24 V	200 W	IP21 · IP67

DC-DC charger · IP21

ORDER CODE	MODEL	INPUT V	OUTPUT V	CURRENT A	SIZE MM	KG	CONNECTION	DATA
0060380	12V/15A 200W	9-16	12	15	116×88×18	0.2	Faston 6.3	web · shop

DC-DC charger · IP67

ORDER CODE	MODEL	INPUT V	OUTPUT V	CURRENT A	SIZE MM	KG	CONNECTION	DATA
0060380IP	12V/15A 200W	9-16	12	15	150×93×31	0.2	Cable	web · shop
0060381IP	24V/8A 200W	18-32	24	8	150×93×31	0.2	Cable	web · shop

04

DC-DC equalizers

Equalizer

Equalizers keep two 12 V batteries in a 24 V system in balance. Sealed IP67 housings.



INPUT VOLTAGE	OUTPUT VOLTAGE	POWER	PROTECTION
24 V	12 V		IP67

Equalizer · IP67

ORDER CODE	MODEL	INPUT V	OUTPUT V	CURRENT A	KG	DATA
JC1422-D10000	24V/12V 100A	24	12	100	0.8	web · shop

05

Defence (MIL) products

MIL

Converters, chargers and equalizers for military and defence applications, with NATO stock numbers where available.



INPUT VOLTAGE	OUTPUT VOLTAGE	POWER	PROTECTION
9 – 65 V	12 – 28 V	200 – 400 W	IP67

MIL · IP67

ORDER CODE	MODEL	INPUT V	OUTPUT V	CURRENT A	SIZE MM	KG	CONNECTION	NSN	DATA
0060316MIL	9-36V/12V 200W	9-36	12	14	150×93×31	0.82	Cable		PDF · web · shop
0060317MIL	9-36V/24V 200W	9-36	24		150×93×31	0.82	Cable		PDF · web · shop
0060381BAE	24-24V 200W	18-32	24	8	150×95×31	0.82	Flying leads, 14AWG Red & Black 1600mm + 50mm - With Choke	6130-64-002-9590	web · shop
0060324MIL	24V/24V 400W	18-32	24	16	150×93×31	0.82	Cable		PDF · web · shop
0060363MIL	24V/12V 30A 400W	18-36	12	30	116×88×18	0.2	Faston 6.3	6130-64-000-6737	PDF · web · shop
0060370IP	24V/12V 30A	24	12	30					web · shop
0060323MIL	48V/24V 400W	33-65	28	16	116×88×18	0.82	Faston 6.3		PDF · web · shop

PRODUCT RANGE

Istec condition monitoring and speed monitoring

Istec develops and manufactures condition monitoring and speed monitoring systems for rotating machinery. This catalogue lists the Istec products we supply, with links to our 3D explainers and to the products in our webshop.

11
Istec products

1 – 4
measurement channels

Vibration · speed
rod drop monitoring

Open the **3D explainer** to see how a system fits your machine, or **shop** for the product in our webshop. Prices, delivery times and quantities: **request a quote**.

Istec condition monitoring and speed monitoring, supplied by MK-Controls Oy. Istec develops and manufactures these systems; MK-Controls Oy supplies them in Finland. We can also help with sensors, cables and installation questions.

01



Istec VibSys condition monitoring
Istec VibSys

02



Industrial accelerometers
Istec accelerometers

03



SpeedSys speed monitors
Istec SpeedSys

04



RecipSys rod drop monitoring
Istec RecipSys

Contents

Applying Istec monitoring

01 Istec VibSys condition monitoring

02 Industrial accelerometers

03 SpeedSys speed monitors

04 RecipSys rod drop monitoring

GUIDE

Applying Istec monitoring

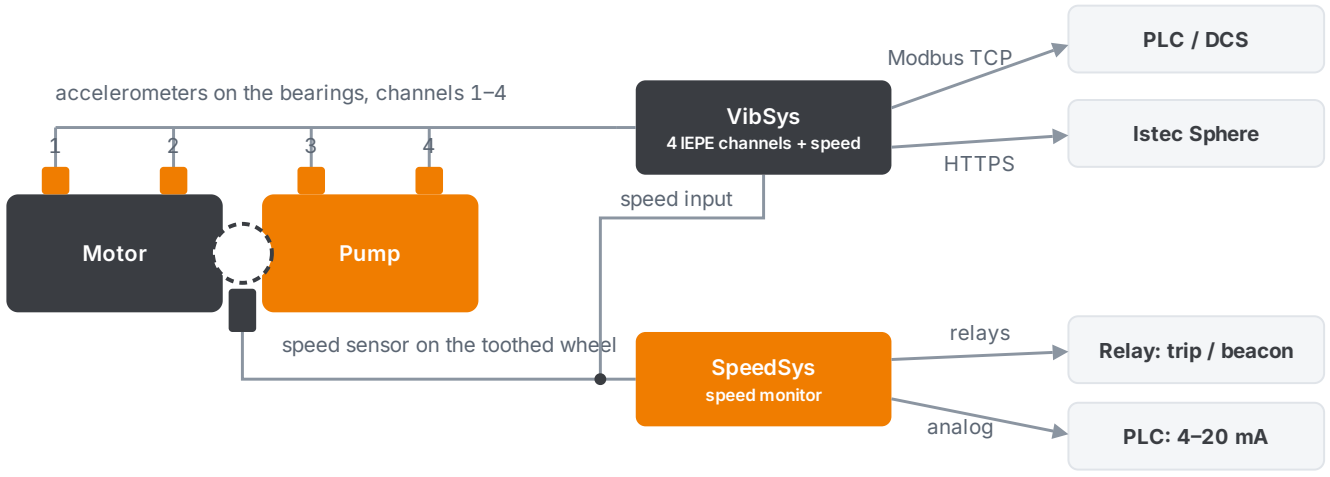
Which Istec system answers which question, how it is installed, and what SIL and explosion classes mean in practice. The drawings are schematic examples; send us your machine and we recommend the right units.

Start with the question

Is the machine healthy, and is it changing? Condition monitoring and diagnostics from 4 vibration channels	**Istec VibSys**
Which vibration sensor fits the machine? Side exit, top exit, premium or intrinsically safe	**Istec accelerometers**
How fast is the shaft turning, and when must a relay switch? 1, 2 or 3 channels, relays, 4–20 mA and Modbus TCP	**SpeedSys T10 · T11 · T20 · T30**
Do I need certified overspeed protection? SIL2 overspeed protection system	**SpeedSys 200**
How worn are the rider bands of a reciprocating compressor? Rod drop monitoring with phase reference	**RecipSys 200**

Istec develops and manufactures the products; we supply them. Open the chapter of the product for details, 3D explainers and webshop links.

Installation example: a pump train with both systems



Schematic example. VibSys reads up to four IEPE accelerometers and sends condition data over Modbus TCP to the PLC or DCS and over HTTPS to Istec Sphere; it has one speed input (0 Hz–10 kHz) for the speed sensor and two configurable relays for alarms, but it is not machinery protection. The same speed sensor can also feed a SpeedSys unit, which switches relays or drives a 4–20 mA signal when speed itself must act. Machine and sensor positions depend on your machine.

01

Istec VibSys condition monitoring

Istec VibSys

Four-channel vibration monitoring system for rotating machinery: continuous condition monitoring and diagnostics for pumps, fans, gearboxes, motors, compressors, paper machines, hydropower and wind. VibSys is a condition monitoring and diagnostics system, not a machinery protection or trip system.



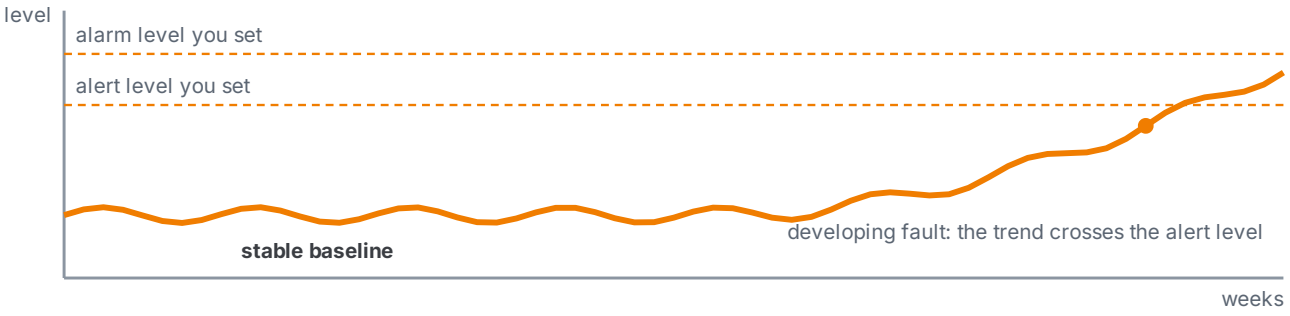
VIBRATION INPUTS	SPEED INPUT	OUTPUTS	ORDER
4 × IEPE	1 (0 Hz–10 kHz)	2 relays · 4 × 4–20 mA	Webshop or quote

Istec VibSys

ORDER CODE	MODEL	CH.	DATA	NOTE
ON REQUEST	Istec VibSys	4	3D explainer · shop	Vibration monitoring system

VibSys in practice

From baseline to alert: why trends beat route checks



Schematic illustration, not measured data. Continuous monitoring shows a change as it develops, so maintenance can be planned before the machine fails. VibSys is a condition monitoring and diagnostics system, not machinery protection: it does not trip or shut down the machine.

02

Industrial accelerometers

Istec accelerometers

Istec industrial accelerometers for precision vibration monitoring, made in an ISO 9001 facility. Side-exit and top-exit versions, and an intrinsically safe version for explosive atmospheres. See the sensor selection guide for cables and mounting accessories.



SENSITIVITY	EXIT	HAZARDOUS AREA	MADE IN
100 mV/g	Side · top	IS version	ISO 9001 facility

Istec accelerometers

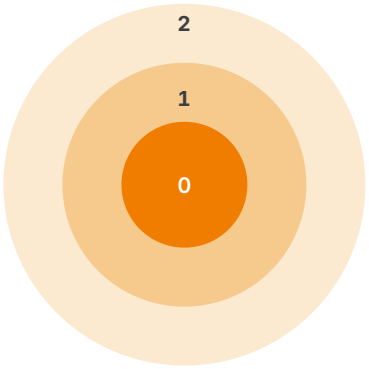
ORDER CODE	MODEL	DATA	NOTE
ISTACCSS10	ISTACCSS10 accelerometer	Sensor guide · shop	Side exit · 100 mV/g · API 670
ISTACCSS20	ISTACCSS20 premium accelerometer	Sensor guide · shop	Side exit · 100 mV/g · wide frequency response · level 3 calibration data
ISTACCTS10	ISTACCTS10 accelerometer	Sensor guide · shop	Top exit · 100 mV/g · API 670
ISTACCSI10	ISTACCSI10 intrinsically safe accelerometer	Sensor guide · shop	Side exit · 100 mV/g · hazardous area · API 670

Choosing an Istec accelerometer

	ISTACCSS10 Side exit	ISTACCSS20 Premium side exit	ISTACCTS10 Top exit	ISTACCSI10 Intrinsically safe
Cable exit	Side	Side	Top	Side
Sensitivity	100 mV/g	100 mV/g	100 mV/g	100 mV/g
API 670	✓	✓	✓	✓
Wide frequency response		✓		
Hazardous area				IS version

All four are 100 mV/g IEPE-type accelerometers made in an ISO 9001 facility. VibSys supplies 4.5 mA sensor current and also accepts compatible IEPE sensors from other brands. API 670 is the American Petroleum Institute standard for machinery protection systems.

Hazardous areas: zones and intrinsic safety



gas: zones 0 · 1 · 2

Zone 0 / 20
explosive atmosphere present continuously or for long periods

Zone 1 / 21
likely to occur in normal operation

Zone 2 / 22
not likely in normal operation, and only for a short time

Zones 0–2 describe gas or vapour, zones 20–22 describe combustible dust.



General explanation of the ATEX and IECEx system, not an approval of a specific product. An intrinsically safe (Ex i) circuit keeps the electrical energy too low to ignite the atmosphere, usually with a barrier or isolator in the safe area. We confirm sensor, barrier and certificate for your zone before you order.

Gas group	Ignites…
IIA	least easily (for example propane)
IIB	more easily (for example ethylene)
IIC	most easily (for example hydrogen)

Temperature class	Max. surface temp.
T1	450 °C
T2	300 °C
T3	200 °C
T4	135 °C
T5	100 °C
T6	85 °C

ATEX category	Zones
1	0 (gas) · 20 (dust)
2	1 (gas) · 21 (dust)
3	2 (gas) · 22 (dust)

The temperature class is the highest surface temperature of the equipment: it must stay below the ignition temperature of the gas. A marking such as “II 2 G Ex ib IIC T4” reads: equipment group II (surface industry), category 2, gas, intrinsic safety level ib, gas group IIC, temperature class T4. Read the certificate of the exact sensor for its zone, gas group and temperature class.

03

SpeedSys speed monitors

Istec SpeedSys

Speed monitors, transmitters and switches for rotating machinery. SpeedSys T10, T11 and T20 are modern replacements for Jaquet T401, T411/T412 and T500/T600 units; the T30 adds three channels with Modbus TCP, and SpeedSys 200 is a SIL2 overspeed protection system.



CHANNELS	REPLACES	OVERSPEED	INTERFACE
1 – 3	Jaquet T4xx/T5xx/T6xx	SIL2 (SpeedSys 200)	Modbus TCP (T30)

Istec SpeedSys

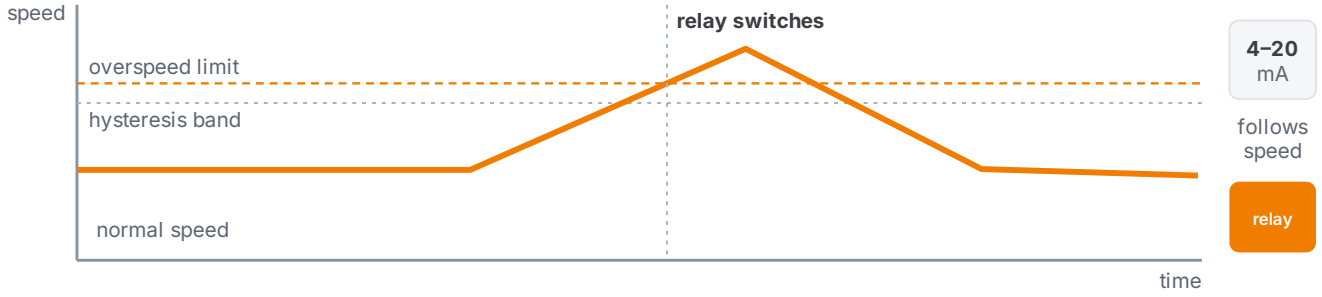
ORDER CODE	MODEL	CH.	DATA	NOTE
ON REQUEST	SpeedSys T10	1	3D explainer · shop	Speed monitor and switch · replaces Jaquet T401
ISTSSYT111	SpeedSys T11	1	SpeedSys guide · shop	Speed monitor and switch with display · replaces Jaquet T411/T412
ON REQUEST	SpeedSys T20	2	3D explainer · shop	Speed monitor and switch · replaces Jaquet T500/T600
ON REQUEST	SpeedSys T30	3	3D explainer · shop	Speed monitor, transmitter and switch · DIN rail · Modbus TCP
ISTSSY2001	SpeedSys 200		SpeedSys guide · shop	Transmitter and overspeed protection · SIL2

SpeedSys family at a glance

	SpeedSys T10	SpeedSys T11	SpeedSys T20	SpeedSys T30
Channels	1	1	2	3
Display		✓		
Redundant power			✓	3 inputs
Software voting			1oo2 · 2oo2	up to 3oo3
Housing width	22.5 mm		45 mm	67.5 mm
Replaces Jaquet	T401 · T402 · T412	T411	T501 · T601	T501 · T601

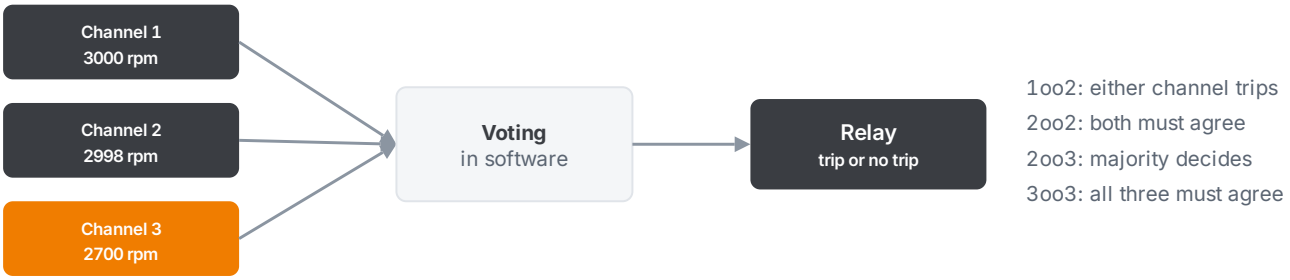
SpeedSys units are DIN-rail speed monitors and switches; the family offers relays, a 4–20 mA output, a frequency output and Modbus TCP. Istec developed them as functional replacements for the discontinued Jaquet tachometers. Send us the Jaquet type on your nameplate and we confirm the match. Empty cells: see the datasheet or ask us.

Overspeed switching: limit, hysteresis and relay



Schematic illustration, not measured data. You set the overspeed and underspeed limits, hysteresis and trip state; the relay switches when speed crosses the limit and the 4–20 mA output follows the measured speed. Relay hardware reacts in 4 ms or less; typical total reaction is 14 ms or less at the default measuring time and 6 ms or less at 2 ms. Range 0.3 Hz to 35 kHz at 0.05 % accuracy.

Voting: how several channels become one decision



Channel 3 deviates: a 2oo3 vote ignores the single deviating value.

General explanation of M-out-of-N voting. T20 offers software voting 1oo2 and 2oo2 on two channels; T30 offers software voting up to 3oo3 on three channels, with cross-coupled inputs. More agreement required means fewer false trips; less agreement required means a faster reaction to a real fault. Values shown are illustrative.

SIL explained: how reliable must a safety function be?

Safety integrity level	Probability of failure on demand (PFDavg)	Risk reduction factor
SIL 1	10^{-2} to 10^{-1}	10 to 100
SIL 2	10^{-3} to 10^{-2}	100 to 1 000
SIL 3	10^{-4} to 10^{-3}	1 000 to 10 000
SIL 4	10^{-5} to 10^{-4}	10 000 to 100 000

SpeedSys 200 is a SIL2 overspeed protection system (Istec).

General explanation of IEC 61508 and IEC 61511, low-demand mode. SIL describes a complete safety function (sensor, logic and final element), not a single device, and also depends on architecture and proof testing. A higher SIL means a lower probability that the function fails when it is needed.

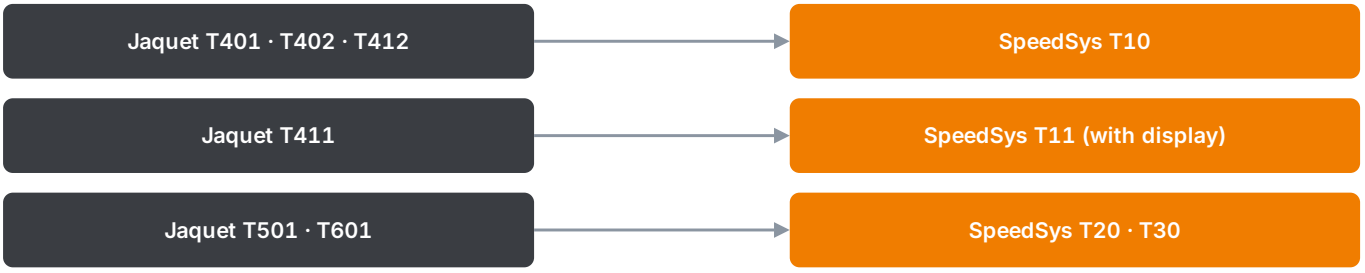
What this means for Istec products

- **SpeedSys 200:** SIL2 overspeed protection system, for applications that need certified overspeed protection.
- **SpeedSys T10, T11, T20 and T30:** speed monitors, transmitters and switches. We make no SIL claim for them.
- **VibSys:** condition monitoring and diagnostics. It is not machinery protection and does not trip or shut down a machine.

Which one do I need?

If a standard, a risk assessment or your insurer requires a certified safety function, ask for SpeedSys 200. For monitoring, alarms, 4–20 mA signals and replacing a Jaquet tachometer, the T-series fits. Send us the application and we recommend the right unit.

Replacing a discontinued Jaquet tachometer



Istec developed SpeedSys as the functional replacement for the discontinued Jaquet T4xx, T5xx and T6xx range, with minimal modification. Jaquet is a trademark of its owner. Tell us the Jaquet type and we confirm the matching SpeedSys before you order.

04

RecipSys rod drop monitoring

Istec RecipSys

Compact rod drop monitoring module for reciprocating compressors. Two channels with phase reference give real-time data on rider band wear and remove the need for shutdowns for manual inspections.



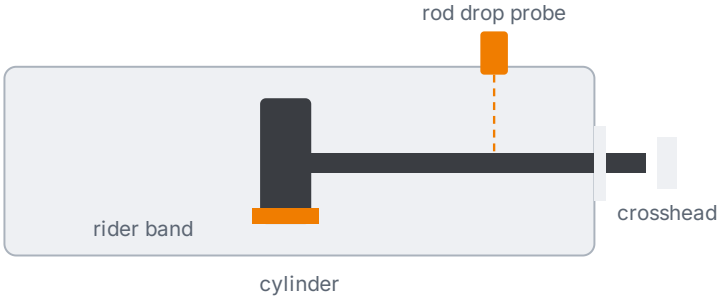
CHANNELS	MEASURES	MACHINE	MAKER
2 + phase ref.	Rider band wear	Reciprocating compressors	Istec

Istec RecipSys

ORDER CODE	MODEL	CH.	DATA	NOTE
RSY200-000-001	RecipSys 200	2 + phase	RecipSys guide · shop	Rod drop monitoring system

How rod drop monitoring works

Rod drop monitoring: the principle



As the rider bands wear, the piston rod sinks.

The probe sees the gap change with every stroke; the phase reference tells the monitor where the piston is.

wear trend, no shutdown needed → **RecipSys 200** 2 channels + phase

Principle illustration, not to scale. RecipSys 200 has two channels with phase reference and gives real-time data on rider band wear, so manual inspections that need a shutdown can be reduced.

mkcontrols.eu

Trademarks belong to their respective owners. Specifications may change without notice; please confirm details when ordering.