

60 mm BUSBAR SYSTEM SERIES WR UP TO 630 A – GENERAL INFORMATION

SCHRACK INFO

- The 60 mm busbar system offers versatile applications and high flexibility
- Universal usability of the components.
- Compact 3- or 4-pole system design
- If necessary, completely touch-protected

BUSBAR SUPPORTS, SERIES WR, FOR 60mm SYSTEM



60 mm COMPONENTS

DESCRIPTION	DIM. (WxHxD) mm	PU	TYPE	WEIGHT (kg)	EAN CODE	AVAILABLE	ORDER NO.
2-pole universal busbar support with external connection holes	-	1	01356	0.095	4021267013561		SI013560
3-pole universal busbar support with internal connection holes	20x185x51	1	01495	0.2	4021267014957		SI014950
3-pole universal busbar support with additional external screw holes	20x220x51	1	01500	0.21	4021267015008		SI015000
PE/N busbar support, 1-pole	26x63x51	1	01601	0.059	4021267016012		SI016010
3-pole connection busbar support with integrated terminals 16 mm ²	20x202x77	1	01484	0.285	9004840156805		SI014840
4-pole universal busbar support with internal terminals	20x245x51	1	01485	0.256	4021267014858		SI014850
5-pole Busbar support up to 30x10 VMS	14x264x61	1	01138	0.167	9004840156492		SI011380
Reducer for SI011380 for 5 mm Cu VMS	-	1	01170	0.001	9004840156515		SI011700
Cover frame VMS	-	1	01139	0.166	9004840156508		SI011390

END CAP FOR BUSBAR SUPPORT, SERIES WR, FOR 60 mm BUSBAR SYSTEM



SI015730

DESCRIPTION	DIM. (WxHxD) mm	PU	TYPE	WEIGHT (kg)	EAN CODE	AVAILABLE	ORDER NO.
End cap for busbar support SI 015000, SI 014950, SI 014840	5x166x31	1	01573	0.021	4021267015732		SI015730
End cap for busbar support SI 014850	5x226x31	1	01574	0.028	9004840529067		SI011310

ARROW 60, 60 mm BUSBAR SYSTEM – GENERAL INFORMATION

SCHRACK INFO

- Halogen-, phosphorus-, silicon-, CFC-free, recyclable
- Compact design
- Use support end cap for lateral touch protection

ARROW 60, BUSBAR SUPPORT, SERIES SCHRACK, FOR 60 mm SYSTEM



IS502752

SCHRACK INFO

- Can be built on, high short-circuit protection, UL94-V0
- Temperature resistance: +200 °C, 960 °C glow wire
- Rated operating voltage: 690 V
- Tightening torque for top screws: 3 - 4 Nm

DESCRIPTION	DIM. (WxHxD) mm	PU	WEIGHT (kg)	EAN CODE	AVAILABLE	STORE	ORDER NO.
Busbar support 3p short	18.5x185x45/50	10	0.129	9004840396560			IS502750
Busbar support 3p long	18.5x216x45/50	10	0.134	9004840396584			IS502752
Busbar support 1p pluggable	18.5x60x45/50	20	0.065	9004840396607			IS502754
Busbar support 2p individual	18.5x116x45/50	10	0.080	9004840396614			IS502755
Support end cap 3p	-	10	0.015	9004840396638			IS502757

COPPER BUSBARS



IS505068

SCHRACK INFO

- Blank copper busbars with 2000 mm length
- Tin-plated copper busbars with 2400 mm length
- Cranked, blank copper busbars

DESCRIPTION/NOMINAL CURRENT	DIM. (WxHxD) mm	PU	TYPE	WEIGHT (kg)	EAN CODE	AVAILABLE	STORE	ORDER NO.
20x5 blank/274 A (320 A)	2000x20x5	1	ECu	2136	9004840044188			IS505068
30x5 blank/379 A (450 A)	2000x30x5	1	ECu	3204	9004840044195			IS505069
30x10 blank/573 A (630 A)	2000x30x10	1	ECu	6408	9004840044386			IS505087
12x5 tin-plated/200 A	2400x12x5	1	01680	1282	9004840211498			SI016180
20x5 tin-plated/320 A	2400x20x5	1	01620	2136	9004840157024			SI016200
30x5 tin-plated/450 A	2400x30x5	1	01622	3204	9004840157031			SI016220
30x10 tin-plated/630 A	2400x30x10	1	01625	6408	9004840157055			SI016250
30x5 cranked, blank for NH-00 disconnector and Neozed outlets/379 A	L=355+550	1	-	1355	9004840276886			BS900198



BUSBAR CONNECTION TERMINALS FOR EXTENSION



SI018860

SCHRACK INFO

- For drill-free connection of equal busbars
- Für busbars 12-30x5/10, or TT profile and TTT profile
- Current carrying capacity 520 A - 2500 A

BUSBAR/CURRENT CARRYING CAPACITY	LENGTH mm	PU	TYPE	WEIGHT (kg)	EAN CODE	AVAILABLE	ORDER NO.
12-20 x 5 and 10 / 630 A	55	12	01166	0.192	9004840142433		SI011660
12-20 x 5 and 10 / 630 A	150	3	01193	0.524	9004840259490		SI011930
20-30 x 5 and 10 / 630 A	40	6	01823	0.252	9004840142440		SI018230
20-30 x 5 and 10 / 630 A	95	3	01141	0.544	9004840142426		SI011410
20-30 x 5 and 10 / 630 A	150	3	01886	0.866	9004840157239		SI018860
TT profiles / 1600 A	50	6	01827	0.494	4021267018276		SI018270
TT profiles / 1600 A	95	3	01145	0.943	9004840130300		SI011450
TT profiles / 1600 A	150	3	01829	1.461	9004840157208		SI018290
TTT profiles / 2500 A	95	3	01274	1.206	9004840259520		SI012740
TTT profiles / 2500 A	150	3	01275	1.78	9004840200195		SI012750
3-pole set for elastic longitudinal connection							
of TT profiles / 1600 A	-	1	30322	5.36	9004840157796		SI303220
3-pole set for elastic corner connection							
of TT profiles / 1600 A	-	1	30473	6.38	9004840186321		SI304730

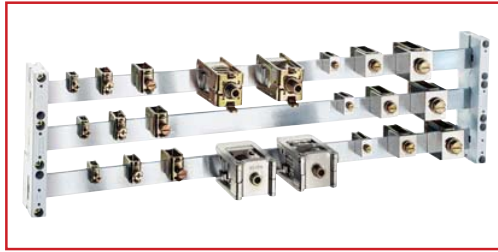


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TERMINALS FOR BUSBAR SYSTEMS – GENERAL INFORMATION

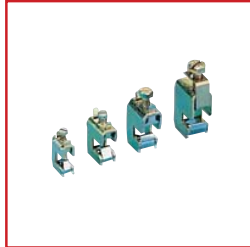


TERMINALS FOR S560

SCHRACK INFO

- Connection of conductors 1.5-120 mm²
- For 5 or 10 mm thick busbars
- Integrated retaining spring
- Open terminal compartment and captive terminal screw allow easy mounting
- Nominal cross-section and tightening torque indicated on terminal

UNIVERSAL CONDUCTOR TERMINALS



CONDUCTOR TERMINALS

SCHRACK INFO

- For 5 and 10 mm thick busbars, as well as special profiles
- Connection of conductors 1.5-120 mm²
- Integrated retaining spring
- Open terminal compartment and captive terminal screw allow easy mounting
- Nominal cross-section and tightening torque indicated on terminal

RAIL THICKNESS/ TERMINAL CAPACITY/TYPE OF CONDUCTOR	DIM. (WxHxD) mm	PU	TYPE	WEIGHT (kg)	EAN CODE	AVAILABLE	ORDER NO.
5 mm/1.5-16 mm ² /re, rm, f, f+ferrule	11.5x22.5x30	1	01284	0.021	4021267012847		SI012840
5 mm/4-35 mm ² /re, rm, f, f+ferrule, la. Cu 3/6x9x0.8	15.5x29x41	1	01285	0.044	4021267012854		SI012850
5 mm/16-70 mm ² /rm, f, f+ferrule, 2x la. Cu 3/6x9x0.8/6x13x0.5	20.5x32	1	01287	0.071	4021267012878		SI012870
5 mm/16-120 mm ² /rm, f, f+ferrule, la. Cu 4/6/10x16x0.8	23.5x36x60	1	01068	0.108	4021267010683		SI010680
10 mm/1.5-16 mm ² /re, rm, f, f+ferrule, la. Cu 8x6x0.5	11.5x22.5x35	1	01289	0.023	4021267012892		SI012890
10 mm/4-35 mm ² /re, rm, f, f+ferrule, la. Cu 3/6x9x0.8	15.5x29x45	1	01290	0.047	4021267012908		SI012900
10 mm, T profile/16-70 mm ² /rm, f, f+ferrule, 2x la. Cu 3/6x9x0.8	20.5x32	1	01292	0.074	4021267012922		SI012920
10 mm, T profile/16-120 mm ² /rm, f, f+ferrule, la. Cu 10x16x0.8	23.5x36x65	1	01203	0.11	4021267012038		SI012030

BRACE TERMINALS – CRITO PROFICLIP



CRITO-CLIP

SCHRACK INFO



- Connection of Cu and Al conductors 95-300 mm² or flexible copper busbars up to 32x20
- Complete gripping by jaw-type terminals
- For busbars 20x5-30x10, or TT-, TTT-, TCC-profile
- Nominal cross-section and tightening torque indicated on terminal

DESCRIPTION/TYPE OF CONDUCTOR	DIM. (WxHxD) mm	PU	TYPE	WEIGHT (kg)	EAN CODE	AVAILABLE	ORDER NO.
95-185 mm ² /Cu und Al, rm, sm, f, f+ferrule	51x38x70	6	01318	0.237	4021267013189		SI013180
120-300 mm ² /Cu und Al, rm, sm, f, f+ferrule	51x41x85.5	3	01760	0.371	4021267017606		SI017600
For lam. Cu 3x20x1-10x24x1	51x38x70	6	01319	0.250	9004840156737		SI013190
For lam. Cu 3x20x1-10x32x1	51x41x85.5	3	01759	0.402	4021267017590		SI017590

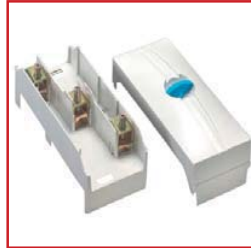


Order no. blue: on stock, usually ready for delivery on the day of order!

CLAMPING YOKE FOR 10x3 COPPER BUSBARS

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Clamping terminal up to 10 mm ²	BK10	9004840467666		IK021139
Clamping terminal up to 35 mm ²	BK35	9004840022438		IK021137

CONNECTION TERMINAL PLATES FOR 60 mm SYSTEM









SI012430



SI015630

SCHRACK INFO

- 3-pole
- Including cover cap
- For conductors 6-300 mm², or small busbars up to 32x20
- For busbars 12x5 - 30x10, TT, TTT, TCC-profile
- Terminals can be removed for connection of uncut conductors

CROSS-SECTION/TYPE OF CONDUCTOR	DIM. (WxHxD) mm	PU	TYPE	WEIGHT (kg)	EAN CODE	AVAILABLE	ORDER NO.
1.5-16 mm ² spring-clamp terminal for m	20x200x64	8	-	0.181	9004840537314		SI015630
6-50 mm ² /rm, f, f + AE/la.Cu							
6x9x0.8 mm	54x200	1	01240	0.360	4021267012403		SI012400
35-120 mm ² /rm, f, f + AE/la.Cu							
6/10x15.5x0.8 mm	81x200	1	01243	0.485	4021267012434		SI012430
95-185 mm ² /Cu, Al, rm, sm, AE	135x200x117.5	1	01199	1.140	4021267011994		SI011990
120-300 mm ² /Cu and Al rm, se, sm	135x200x117.5	1	01754	1.540	4021267017545		SI017540
La. Cu 3x20x1 -10x32x1 for surface busbars	135x200x117.5	1	01753	0.295	4021267017538		SI017530


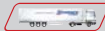



COVER CAPS FOR 60 mm SYSTEM



COVER SHROUDS



SI010250

DESCRIPTION	DIM. (WxHxD) mm	PU	TYPE	WEIGHT (kg)	EAN CODE	AVAILABLE	ORDER NO.
54 mm wide cover for terminal compartment or spare slots	54x200x55	1	01590	0.147	9004840156942		SI015900
84 mm wide cover for terminal compartment or spare slots	84x200x55	1	01413	0.145	9004840156775		SI014130
135 mm wide cover for terminal compartment or spare slots	135x200x90	1	01756	0.295	9004840157147		SI017560
Cover profile 700 mm	700x200x63	1	01025	0.075	4021267010256		SI010250
Holder for cover profile SI01025	9x196x32	10	01026	0.039	4021267010263		SI010260

CONNECTION TERMINALS FOR SMALL BUSBARS



SI010920

SCHRACK INFO

- Connection of conductors 95-300 mm² re, rm, se, f, or small busbars up to 40x25, with busbars
- Connection for small busbars and flexible copper busbars up to 41x25, with busbars 40x10-60x10
- Nominal cross-section and tightening torque indicated on terminal.

BUSBAR/TERMINAL COMPARTMENT	DIM. (WxHxD) mm	PU	TYPE	WEIGHT (kg)	EAN CODE	AVAILABLE	ORDER NO.
60x10 for small busbars 40x25 or 2x40x10	60x78x100	3	01034	1.073	9004840156317		SI010340
40x10 for small busbars 40x25 or 2x40x10	60x58x100	3	01032	0.917	9004840156294		SI010320

PROFILE TERMINALS



SI011860

SCHRACK INFO

- Applicable for TT and TTT busbars
- Current carrying capacity up to 3200 A
- For small-busbar connection without drilling
- Parallel connection of small busbars also possible

BUSBAR / CURRENT CARRYING CAPACITY / TERMINAL COMPARTMENT	DIM. (WxHxD) mm	PU	TYPE	WEIGHT (kg)	EAN CODE	AVAILABLE	ORDER NO.
TT profile/1600 A/terminal comp. 51x5-28	103x82x39	3	01906	1.160	9004840157260		SI019060
TT profile/2000 A (for centre supply)/ Terminal space 64x20-42	118x94x63	3	01911	1.387	9004840157284		SI019110
TTT profile/2500 A (for centre supply)/ Terminal space 64x23-45	154x94x39	3	01008	1.240	9004840199581		SI010080
TTT profile/3200 A (for centre supply)/ Terminals 101x23-45	154x132x39	3	01186	1.720	9004840156546		SI011860
Crito® Power Clip profile terminal 68x28	85x50x85	3	01070	0.235	9004840561265		SI010700

BOLT-TYPE-TERMINAL



SI015140

SCHRACK INFO

- For connection without drilling of conductors with cable lugs DIN 46234 and DIN 46235
- For busbars 5 or 10 mm or TT, TTT, TCC-profile
- Tightening torque marked on the terminal.

RAIL THICKNESS/SCREW/CURRENT	DIM. (WxHxD) mm	PU	TYPE	WEIGHT (kg)	EAN CODE	AVAILABLE	ORDER NO.
10 mm/M 8x8/490 A	32x29.5x36	20	01514	0.162	9004840156904		SI015140
10 mm/M 10x10/630 A	42x38x47	6	01047	0.362	9004840156409		SI010470

CONNECTION TERMINALS



SI019970

SCHRACK INFO

- For overlapping connection of small busbars and flexible copper busbars longitudinally and laterally.
- For 5 and 10 mm thick busbars.

BUSBAR/TERMINAL COMPARTMENT	DIM. (WxHxD) mm	PU	TYPE	WEIGHT (kg)	EAN CODE	AVAILABLE	ORDER NO.
30 with 20/max. 20 mm high	50x20x40	10	01997	0.164	9004840157369		SI019970
30 with 30/max. 20 mm high	60x20x50	10	01586	0.198	4021267015862		SI015860
32 with 40/max. 30 mm high	60x30x50	6	01616	0.276	9004840157000		SI016160
50 with 63/max. 30 mm high	82x30x70	3	01617	0.515	9004840157017		SI016170

COVERS AND ACCESSORIES FOR BUSBARS

SIZE/DESCRIPTION/NOMINAL CURRENT	DIM. (WxHxD) mm	PU	TYPE	WEIGHT (kg)	EAN CODE	AVAILABLE	ORDER NO.
Busbar support cover for busbar 12-30 x 5 mm	L=1000 mm	10	01244	0.087	4021267012441		SI012440
Busbar support cover for busbar 12-30 x 10 mm	L=1000 mm	10	01245	0.101	4021267012458		SI012450
Busbar support cover for busbar 12x5	L=1000 mm	10	78463	0.032	9004840187120		SI784630
Bracket for empty field cover for busbar 12-30x5/10, TT, TTT, TCC profile	9x195x32	1	01026	0.040	4021267010263		SI010260
Empty field cover 0.7 m long	700x202x16	2	01025	0.750	4021267010256		SI010250
Bracket for empty field cover SI010260 und SI010250	9x196x107	8	01320	0.012	4021267013202		SI013200
Name label PE, self-adhesive, green-yellow	Ø 15	1	78442	0.001	4021267784423		SI784420
Name labels N, self-adhesive, blue	Ø 15	1	78443	0.001	4021267784430		SI784430



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■ BUSBAR FUSE SWITCH-DISCONNECTOR FOR 60 mm SYSTEM



IS504851

■ SCHRACK INFO

- Including fuse-plug with flashing indicator
- Including plug retaining spring for D01 and cylindrical fuses 10x38 mm
- 400 V~, 63 A, 50 kA, AC 23 B, lockable, sealable, 27 mm wide
- for D0 fuse-links 2 ... 63 A and cylindrical fuses 10x38 mm 2 ... 32 A
- for D02 gauge-pieces 2... 50 A
- for busbars 12, 15, 20, 25, 30 mm wide, 5 or 10 mm thick

■ TECHNICAL DATA

Classification	Switch-disconnector fuse
Standard	DIN VDE 0638 DIN EN 60947-3; IEC 60947-3
Suitable for D0 fuses DIN 49522	D01, 2, 4, 6, 10, 13, 16 A with plug retaining spring D02: 20, 25, 32, 35, 40, 50, 63 A
Suitable for cylindrical fuses IEC EN 60269-1	10x38 mm: 2 ... 32 A with plug retaining spring
Suitable for gauge-pieces DIN 49523	D02: 2, 4, 6, 10, 16, 20, 25, 35, 50 A
Number of poles	3-pole, 3-pole+N
Insulating parts	Plastic, halogen-, phosphorus-, silicone-free
Fire classification /Leakage current resistance	UL94V0, glow wire test 960 °C / CTI600
Degree of protection / touch protection	IP 20 / finger and hand touch safe
Ambient temperature; storage min/max	-25 °C / 60 °C
Rated operational voltage U_e	400 V~
Rated operational current I_e	63 A
Rated uninterrupted current I_e	63 A
Rated short-circuit breaking capacity I_{cm}	50 kA _{eff}
Utilization category	AC 23 B
Overvoltage category	IV (DIN VDE 0110)
Pollution degree	3 (DIN VDE 0110)
Rated impulse withstand U_{imp}	6000 V
Connection style	Stainless steel cage terminal 1.5 ... 35 mm ²
Tightening torque MD	4 Nm

■ SPECIAL FEATURES

- Flashing indicator only 27 mm wide
- Removable fuse-plug reliable fuse-blown indication
- Finger protection against burns independent manual operation
- Safe disconnecting lockable
- Securing against restarting sealable

■ BUSBAR FUSE SWITCH-DISCONNECTOR FOR 60 mm SYSTEM – continued

■ FLASHING INDICATOR



The optoelectronic fuse-blown indicator provides reliable fault detection on site.

A basic requirement for immediate restarting ability.

Independent manual operation

DIN VDE 0105

The disconnection of all poles – clearance – increases the safety.

■ FUSE-PLUG



EN 50110-1

The screw cap-less plug-in design with hand-independent, continuous contact pressure means:

- Operational safety
- Energy savings
- The removable fuse-plug protects fingers against burns



■ RESTART LOCK-OUT



Switching contact indicator

No-power state is indicated by visualising the isolating function.



DESCRIPTION	EAN CODE	AVAILABLE	ORDER NO.
D02 switch-disconnector TYTAN R 60 mm 3-pole	9004840550139		ISS04851
D02 switch-disconnector TYTAN R 60 mm 3-pole + N	9004840585964		ISS04852
D02 switch-disconnector TYTAN R 60 mm with fixed gauge-rings 20 A, 3-pole	9004840585971		ISS04853
D02 switch-disconnector TYTAN R 60 mm with fixed gauge-rings 25 A, 3-pole	9004840585988		ISS04854
D02 switch-disconnector TYTAN R 60 mm with fixed gauge-rings 35 A, 3-pole	9004840585995		ISS04855



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■ BUSBAR FUSE SWITCH-DISCONNECTOR TYTAN RH1 MAIN PROTECTION – FOR COLLECTIVE FAULT EVALUATION FOR 60 mm SYSTEM



RH1

■ SCHRACK INFO

- D0 switch-disconnector with advanced electronic monitoring
- Monitored functions / visualisation:



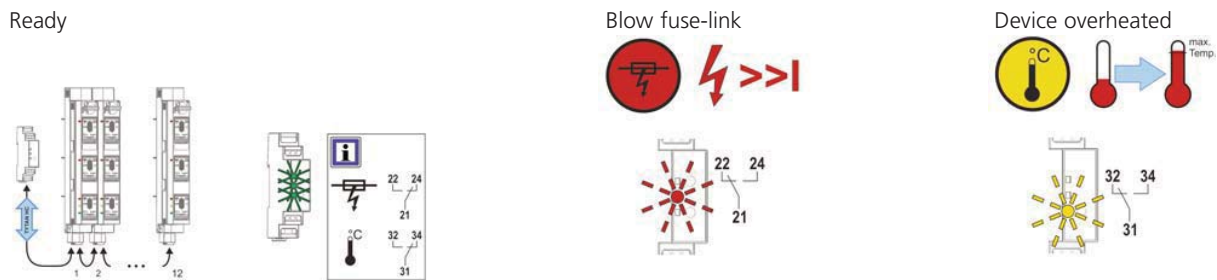
HR12

• Construction:

- The TYTAN main protection consists of 1 ... 12 switch-disconnector TYTAN TH1 and one TYTAN HR12 main protective relay. The links of the main protection components are made with RJ10 connector wires quickly and easily.
- The 12 switch-disconnector switches can also be mixed and consist of TYTAN TH1 and TYTAN RH1 (see chapter TYTAN TH1 and TYTAN HR12 main protection).

MAIN PROTECTIVE RELAY TYTAN HR12

- Monitored functions are output to potential-free relay contacts

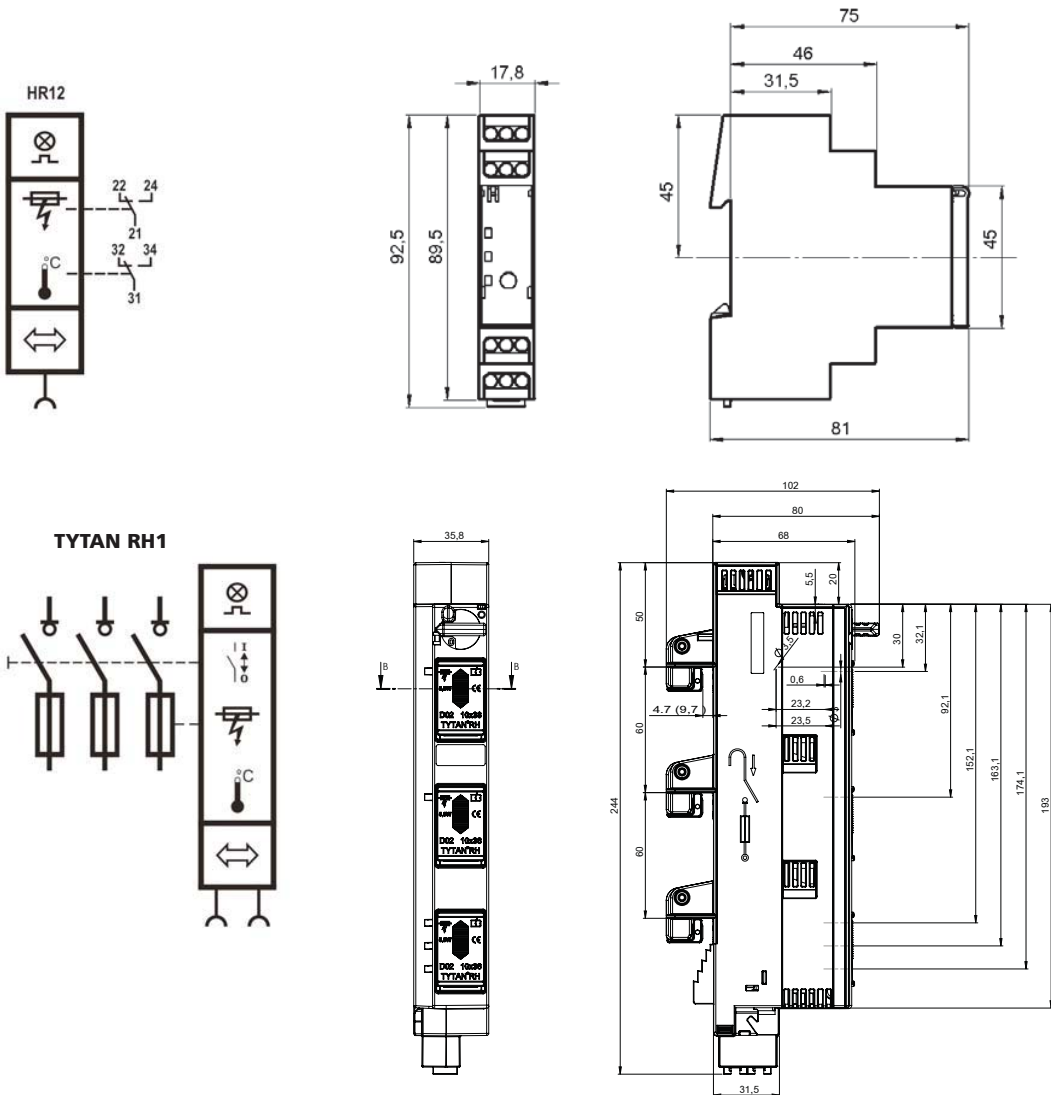


■ TECHNICAL DATA

Standards	DIN EN 61000 (EMC immunity), IEC/EN 61000-4-2, IEC/EN 61000-4-4, EN 60255	
Rated voltage	24V DC	
Power consumption per TYTAN TH1	Operation 0.4 W / Fault 1.55 W	
TYTAN HR12	0.95 W	
RELAY CONTACTS		
	for blown fuse-link, overheated device	
Rated operational voltage/current	250 V / 5 A μ AC cos ϕ =1 30 V / 5 A DC 300 V / 0.25 A DC	
Minimum rated operational voltage/current	100 mV / 10m A AC/DC	
Dielectric strength	Coil to contacts	4 kV _{r-m-s}
	Open to contact	1 kV _{r-m-s}
Rated impulse withstand voltage	4 kV	
Overvoltage category	III	
GENERAL		
Flame class / comparative tracking index	UL94/V0, glow wire test 960 °C / CTI 600	
Pollution degree	3	
Degree of protection / touch protection	IP 20 / IP 40; finger and hand touch safe	
Temperature range ambience / storage	-25 to +60 °C / -40 to +60 °C	
Connection style	Rigid	1x4 mm ² / 2x1.5mm ²
	Flexible	1 x 2.5 mm ²
Tightening torque M _b	0.5 Nm	

■ BUSBAR FUSE SWITCH-DISCONNECTOR TYTAN RH1 MAIN PROTECTION – FOR COLLECTIVE FAULT EVALUATION FOR 60 mm SYSTEM – continued

■ DIMENSIONS AND WIRING DIAGRAMS



DESCRIPTION	EAN CODE	AVAILABLE	ORDER NO.
3-POLE VERSION			
TYTAN RH1 main protection switch-disconnector D02 with integrated monitoring electronics and LEDs	9004840651294		ISS04858
3+N VERSION			
TYTAN RH1 main protection switch-disconnector D02 with integrated monitoring electronics and LEDs	9004840682359		ISS04857
ACCESSORIES			
Plug retaining spring for D01 and 10x38 mm fuses	9004840419696		ISF90299
Solid links 63A, 3 pcs	9004840651928		ISS04859
TYTAN HR12 MAIN PROTECTIVE RELAY FOR COLLECTIVE FAULT EVALUATION			
2 CO contacts 5 A / 250 VAC	9004840651317		ISS04871
TYTAN HC CONNECTOR WIRES RJ10			
15 cm long	9004840651270		ISS04873
100 cm long	9004840651287		ISS04877

■ BUSBAR FUSE SWITCH-DISCONNECTOR TYTAN RH1 MAIN PROTECTION – SINGLE EVALUATION FOR 60 mm SYSTEM



RH1

■ SCHRACK INFO

- D0 switch-disconnector with advanced electronic monitoring
- Monitored functions / visualisation:



HR11

• Construction:

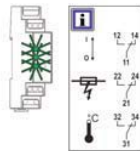
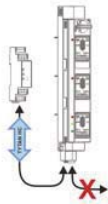
The TYTAN main protection consists of one switch-disconnector TYTAN TH1 and one TYTAN HR11 main protective relay. The links of the main protection components are with RJ10 connector wires quickly and easily.

MAIN PROTECTIVE RELAY TYTAN HR11

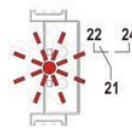
- Monitored functions are output to potential-free relay contacts

Ready

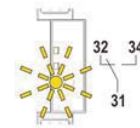
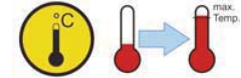
Load-break switch ON



Blow fuse-link



Device overheated

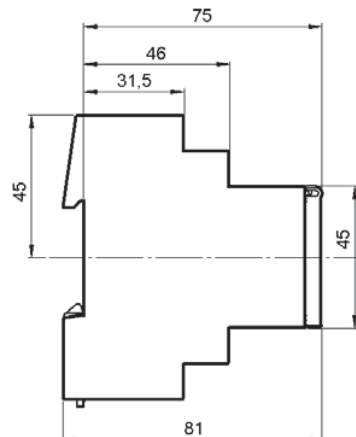
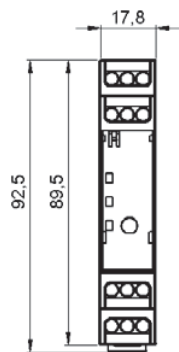
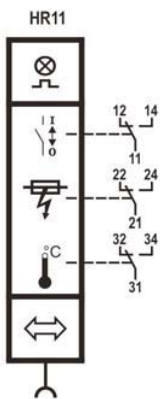


■ TECHNICAL DATA

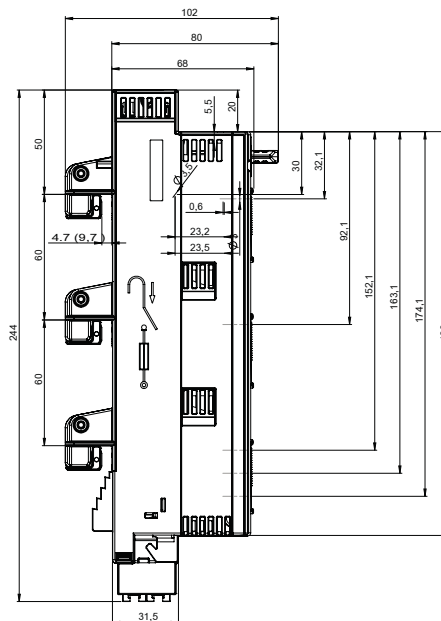
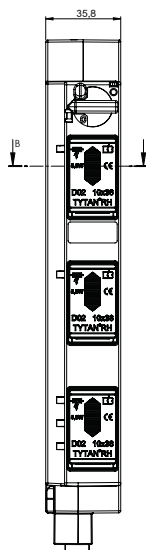
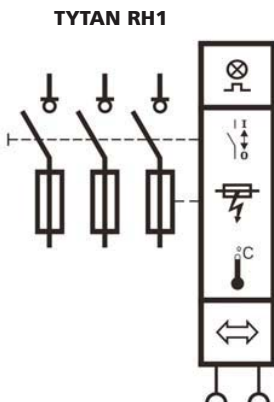
Standards	DIN EN 61000 (EMC immunity), IEC/EN 61000-4-2, IEC/EN 61000-4-4, EN 60255	
Rated voltage	24 V DC	
Power consumption per TYTAN RH1	Operation 0.4 W / Fault 1.55 W	
TYTAN HR11	1.15 W	
RELAY CONTACTS		
	for blown fuse-link, overheated device, load break switched ON/OFF	
Rated operational voltage/current	250 V / 5 A μ AC cos ϕ =1 30 V / 5 A DC 300 V / 0.25 A DC	
Minimum rated operational voltage/current	100 mV / 10 m A AC/DC	
Dielectric strength	Coil to contacts	4 kV _{r-m-s}
	Open to contact	1 kV _{r-m-s}
Rated impulse withstand voltage	4 kV	
Overvoltage category	III	
GENERAL		
Flame class / comparative tracking index	UL94/V0, glow wire test 960 °C / CTI 600	
Pollution degree	3	
Degree of protection / touch protection	IP 20 / IP 40; finger and hand touch safe	
Temperature range ambience / storage	-25 to +60 °C / -40 to +60 °C	
Connection style	Rigid	1x4 mm ² / 2x1.5mm ²
	Flexible	1 x 2.5 mm ²
Tightening torque M _b	0.5 Nm	





■ BUSBAR FUSE SWITCH-DISCONNECTOR TYTAN RH1 MAIN PROTECTION – SINGLE EVALUATION **FOR 60 mm SYSTEM** – continued

■ DIMENSIONS AND WIRING DIAGRAMS



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DESCRIPTION	EAN CODE	AVAILABLE	ORDER NO.
3-POLE VERSION			
TYTAN RH1 main protection switch-disconnector D02 with integrated monitoring electronics and LEDs	9004840651294		ISS04858
3+N VERSION			
TYTAN RH1 main protection switch-disconnector D02 with integrated monitoring electronics and LEDs	9004840682359		ISS04857
ACCESSORIES			
Plug retaining spring for D01 and 10x38 mm fuses	9004840419696		ISF90299
Solid links 63A, 3 pcs	9004840651928		ISS04859
TYTAN HR11 MAIN PROTECTIVE RELAY FOR SINGLE EVALUATION			
2 CO contacts 5 A / 250 VAC	9004840651263		ISS04870
TYTAN HC CONNECTOR WIRES RJ10			
15 cm long	9004840651270		ISS04873
100 cm long	9004840651287		ISS04877

■ D02 BUSBAR FUSE BASE, SERIES SCHRACK, FOR 60 mm SYSTEM



IS507823

■ SCHRACK INFO

- Integral labelling field, loss-free stainless steel clamp
- Temperature resistance: +200 °C, 960 °C glow wire

DESCRIPTION	DIM. (WxHxD) mm	TYPE	WEIGHT (kg)	EAN CODE	AVAILABLE	ORDER NO.
D02 bus-mounting fuse base E18 w/o cover	27x201x32/50	6010	0.147	9004840384130		IS504823
D02 busbar cover 27 mm 3p	27x201	6011	0.016	9004840384147		IS504824
D02 cover strip 36 mm + consumer 3p	36x201	6012	0.022	9004840384154		IS504825
D02 cover strip 54 mm + consumer 3p	54x201	6013	0.044	9004840396645		IS504826
D02 cover strip 36 mm, right	36x201	6018	0.022	9004840396676		IS502767
D02 screw caps	-	31006	0.012	4086500011520		SIB10060

■ D02 FUSE BASE FOR 60 mm SYSTEM – GENERAL INFORMATION



SI016470 + ACCESSORIES

■ SCHRACK INFO

- 3-pole Version
- Combination foot makes it suitable for 5 and 10 mm thick busbar
- For busbars 12-30x5/10, TT and TTT profile
- With box terminals from 1.5-25 mm² (DII, DO), or 1.5-35 mm² (DIII)
- Latching mechanism when pushed onto the busbar.
- In one operation mechanically fixed and electrically contacted

■ D02 FUSE BASE, SERIES WR, FOR 60 mm SYSTEM



SI016470

DESCRIPTION	DIM. (WxHxD) mm	PU	TYPE	WEIGHT (kg)	EAN CODE	AVAILABLE	ORDER NO.
NOMINAL VOLTAGE							
27 mm wide, D0 base E 18, adjusting sleeve/63 A/400 V	27x200x35	1	01647	0.147	4021267016470		SI016470
36 mm wide, D0 base E18, adjusting sleeve/63 A/400 V	36x200x35	1	01498	0.155	4021267014988		SI014980



D02 FUSE BASE COVER STRIP, SERIES BR, FOR 60 mm SYSTEM



SI019800

DESCRIPTION	DIM. (WxHxD) mm	PU	TYPE	WEIGHT (kg)	EAN CODE	AVAILABLE	ORDER NO.
27 mm wide, for E 18 - 1x	27x200x43	1	01980	0.024	4021267019808		SI019800
36 mm wide, for E18, 1-1/3x	36x200x43	1	01424	0.032	9004840156782		SI014240
54 mm wide, for E 18 -2x (1 blind)	54x200x43	1	01981	0.040	9004840157338		SI019810

D02 FUSE BASE WITH COVER STRIP, TOUCH-PROTECTED, SERIES WR, FOR 60 mm SYSTEM

DESCRIPTION	DIM. (WxHxD) mm	PU	TYPE	WEIGHT (kg)	EAN CODE	AVAILABLE	ORDER NO.
27 mm wide, for E 18 - 1-1/3x	36x200x35	1	31936	0.161	9004840555769		SI319360

D FUSE BASE FOR 60 mm SYSTEM



SI314410

DESCRIPTION	DIM. (WxHxD) mm	PU	TYPE	WEIGHT (kg)	EAN CODE	AVAILABLE	ORDER NO.
NOMINAL VOLTAGE							
42 mm wide, D base, E27, gauge ring/25A/500V	42x169x35	1	31918	0.233	9004840186451		SI319180
42 mm wide, D base E 27, fitting screw/25A/500V	42x169x35	1	31441	0.225	4021267314415		SI314410
57 mm wide, D base E 33, gauge ring/63A/690V	57x169x35	1	31919	0.336	9004840186468		SI319190
57 mm wide, D base E 33, fitting screw/63A/690V	57x169x35	1	31442	0.306	4021267314422		SI314420
D screw cap porcelain 500V, E27/25A/500V	E27	1	01098	0.010	9004840264562		SI010980
D screw cap porcelain 690V, E33/63A/690V	E33	1	01100	0.015	9004840264579		SI011000

D FUSE BASE FOR 60 mm SYSTEM

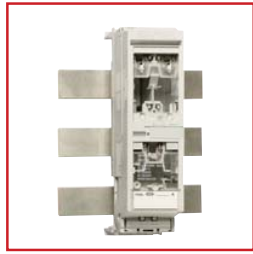


SI310700

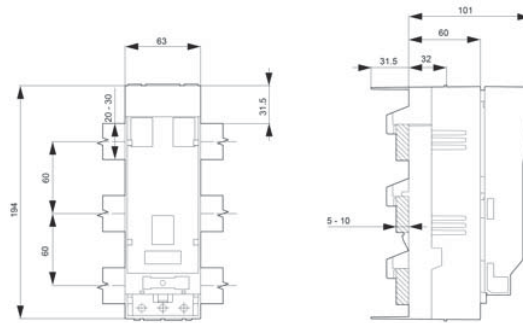
DESCRIPTION	DIM. (WxHxD) mm	PU	TYPE	WEIGHT (kg)	EAN CODE	AVAILABLE	ORDER NO.
42 mm wide, for E 27 - 1x	42x200x43	10	31070	0.050	4021267310707		SI310700
57 mm wide, for E 33 - 1x	57x200x43	10	31071	0.062	4021267310714		SI310710
Touch protection on the side for all cover strips	-	10	79663	0.013	9004840187199		SI796630



ARROW BLOC HRC FUSE LOAD-BREAK DISCONNECTOR, SIZE 000 / 100A / 54 mm, BUS-MOUNTING, **FOR 60 mm SYSTEM**



ISA05019




SCHRACK INFO

- For busbars with 12-30 mm width and 5-10 mm thickness
- Device width 54 mm
- Touch protection IP 3x
- Lid lock combined with sealing
- Connection box terminal up to 2.5-50 mm²

TECHNICAL DATA

- According to IEC/EN 60 947-3
- For HRC fuse links size 000 according to IEC/EN 60 269-2/section 1, VDE 0636 part 201
- Breaking capacity according to IEC/EN 60 947-3 AC 23 B / 400 V / 100 A, AC 21 B / 690 V / 100 A, DC 22 B / 440 V / 100 A
- Conditional rated short-circuit current for protection by fuses size 000: 80 kA / 690 V / 100 A

DESCRIPTION	PU	CU WEIGHT (g)	EAN CODE	AVAILABLE	ORDER NO.
Arrow Bloc 100 A, size 000, 3-pole, box terminal 2.5-50 mm ² , outlet at bottom	1	207	9004840688948		ISA05019



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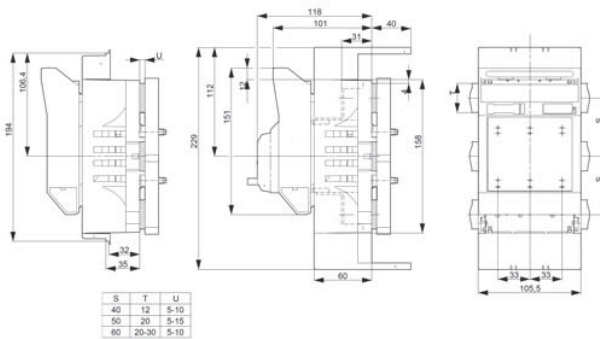


Order no. blue: on stock, usually ready for delivery on the day of order!

ARROW BLOC HRC FUSE LOAD-BREAK DISCONNECTOR, BUS-MOUNTING, FOR 60 mm SYSTEM



ISA05226



SCHRACK INFO

- Universal for 40 mm and 60 mm busbar system
- Universal for 5 mm and 10 mm busbar thickness
- Universal design: cable output at the top or bottom
- Technical performance data according to IEC 947 / EN 60947, the same as for the surface-mounting version
- Optional: fuse monitoring

DESCRIPTION	CJ WEIGHT (g)	EAN CODE	AVAILABLE	ORDER NO.
ARROW BLOC – SIZE 00 DISCONNECTOR				
3-pole size 00 - 160 A, M8	214	9004840689112		ISA05223
3-pole size 00 - 160 A, M8, with window lock	214	9004840689129		ISA05223F
ARROW BLOC – SIZE 1 DISCONNECTOR				
3-pole size 1 - 250 A, M10	636	9004840689235		ISA05290
ARROW BLOC – SIZE 2 DISCONNECTOR				
3-pole size 2 - 400 A, M10	1888	9004840689204		ISA05251

Also available with fuse monitoring



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ARROW LINE HRC FUSE LOAD-BREAKING, SIZE 00 / 160 A, BUS-MOUNTING, FOR 60 mm SYSTEM



ISA05261

SCHRACK INFO

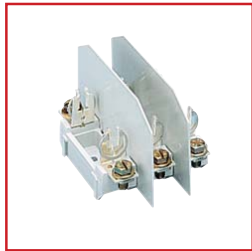
- HRC fuse load-breaking busbar, 3-pole, size 00, 160 A, AC 690 V
- Symmetric load-breaking busbar, outlet at top/bottom selectable at installation
- For busbars with 20 - 30 mm width and 10 mm thickness
- M8 terminal
- installation on 60 mm busbar system

TECHNICAL DATA

- According to IEC/EN 60 947-3
- For HRC fuse links according to IEC/EN 60 269-2/section 1, VDE 0636 part 201
- Breaking capacity according to IEC/EN 60 947-3 AC 23 B / 400 V / 160 A, AC 22 B / 500 V / 160 A, AC 21 B / 690 V / 100 A
- Conditional rated short-circuit current with fuse links:
80 kA / 400 V / 160 A, 80 kA / 500 V / 160 A, 50 kA / 690 V / 100 A

DESCRIPTION	PU	CU WEIGHT (g)	EAN CODE	AVAILABLE	ORDER NO.
Arrow Line 160 A, size 00, 3-pole	1	420	9004840689211		ISA05260


HRC BUS-MOUNTING FUSE BASES FOR 60 mm SYSTEM



SI036560

SCHRACK INFO

- Terminal at top
- With touch protection
- 60 mm bus-mounting system
- Other NH bases on request

DESCRIPTION	DIM. (WxHxD) mm	PU	WEIGHT (kg)	EAN CODE	AVAILABLE	ORDER NO.
Size 00/70 mm ² /160 A M8 screw						
max. 70 mm ² , 3-pole	99x200x89	4	0.645	4021267036560		SI036560
Size 00/70 mm ² /160 A djp						
max. 70 mm ² , 3-pole	99x200x89	4	0.665	9004840403527		SI036540



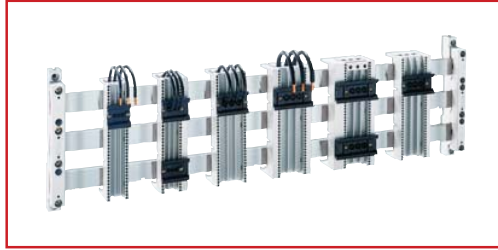
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BUSBAR ADAPTER – EQUES EASYCONNECTOR FOR 60 mm SYSTEM



ADAPTER 60 MM WR

SCHRACK INFO

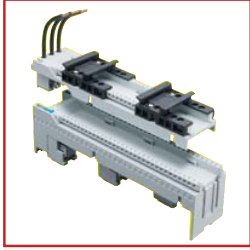
- 3-pole, 25 - 80 A
- Adapter widths 45 mm to 81 mm, can be combined
- For busbars 12-30x5/10, TT and TTT profile
- Combination foot for 5 and 10 mm thick busbar
- Ultrasonically welded lines
- Length 200 mm or 260 mm
- Adjustable mounting busbars
- Other adapters and accessories available on request

TIPS & TRICKS

For surface-mounting of line circuit breakers, motor circuit breakers, contactors, etc.

DESCRIPTION	DIM. (WxHxD) mm	PU	TYPE	WEIGHT (kg)	EAN CODE	AVAILABLE	ORDER NO.
25 A, 45 mm wide, 1 mounting busbar, 3 x 4 mm ² wires	45x200	1	32430	0.325	4021267324308		SI324300
25 A, 45 mm wide, 2 mounting busbar, 3 x 4 mm ² wires	45x200	1	32431	0.326	9004840236316		SI324310
25 A, 45 mm wide, 2 mounting busbar, 3 x 6 mm ² terminals	45x200	1	32436	0.322	9004840274776		SI324360
32 A, 54 mm wide, 1 mounting busbar, 3 x 6 mm ² wires	54x200	1	32441	0.259	9004840233889		SI324410
32 A, 54 mm wide, 2 mounting busbars, 3 x 6 mm ² wires	54x200	1	32442	0.380	4021267324421		SI324420
32 A, 63 mm wide, 1 mounting busbar, 3 x 6 mm ² wires	63x200	1	32443	0.445	9004840236323		SI324430
32 A, 72 mm wide, 1 mounting busbar, 3 x 6 mm ² wires	72x200	1	32444	0.443	9004840236330		SI324440
63 A, 54 mm wide, 1 mounting busbar, 3x10 mm ² wires	54x200	1	32454	0.277	9004840233865		SI324540
63 A, 54 mm wide, 2 mounting busbars, 3x10 mm ² wires	54x200	1	32455	0.410	4021267324551		SI324550
63 A, 63 mm wide, 1 mounting busbar, 3 x 10 mm ² wires	63x200	1	32456	0.449	9004840236354		SI324560
63 A, 72 mm wide, 1 mounting busbar, 3 x 10 mm ² wires	72x200	1	32457	0.340	9004840236361		SI324570
63 A, 81 mm wide, 2 mounting busbars, 3 x 10 mm ² wires	81x200	1	32459	0.374	9004840236378		SI324590
Device support without contacting, 45 mm wide, 1 mounting busbar	45x182x60	1	32477	0.248	9004840267693		SI324770
Device support without contacting, 54 mm wide, 1 mounting busbar	54x182x60	1	32478	0.156	9004840236385		SI324780

EQUES MOTOR CONTROLLER FOR 60 mm SYSTEM



SI324120





SI324120

SCHRACK INFO

- 3-pole 25-45 A
- Adapter widths 45, 54 and combinable
- For busbars 12 - 30 x 5/10, TT, and TTT profile
- Combination foot for 5 and 10 mm thick busbar
- Ultrasonically welded lines
- Length 200 and 260 mm
- Provides MCC technology
- Touch-proof busbar during device replacement

TIPS & TRICKS

For surface-mounting of line circuit breakers, motor circuit breakers, contactors, etc.

DESCRIPTION	DIM. (WxHxD) mm	PU	TYPE	WEIGHT (kg)	EAN CODE	AVAILABLE	ORDER NO.
25 A, 2 mounting busbars with 3 x 4 mm ² wires	45x200x75	4	32400		9004840407402		SI324000
32 A, 2 mounting busbars with 3 x 6 mm ² wires	54x200x75	4	32404		9004840407419		SI324040
45 A, 2 mounting busbars with 3 x 100 mm ² wires	54x200x75	1	32412	0.498	9004840251531		SI324120
Side module, pluggable on both sides	9x200	1	32963	0.023	9004840382938		SI329630



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UNIVERSAL BUS-MOUNTING ADAPTER 200 A – 630 A, FOR 60 mm SYSTEM



MC291400

SCHRACK INFO

- 3-pole for all commercially available switchgear systems
- Terminal at top or bottom
- With fastening screws M4 (M5, M6, see accessories) for adapter 200 A/250 A
- With fastening screws M6 (M8 see accessories) for adapter 630 A
- 200 A - Box terminal version for conductor 6-70 mm² rm/f/f+ferrule or flexible copper 10x16x0.8
- 250 A - Box terminal version for conductor 35-120 mm² rm/f/f+ferrule or flexible copper 10x20x0.8
- 630 A - Screw M12/240 mm² or terminal lug small busbar up to 14x25 mm
- For contacting on hole-free busbar

DESCRIPTION/NOMINAL CURRENT	DIM. (WxHxD) mm	TYPE	WEIGHT (kg)	EAN CODE	AVAILABLE	ORDER NO.
Outlet at top/200 A	108x222	32214	0.842	9004840186550		SI322140
Outlet at bottom/200 A	108x222	32215	0.860	9004840158908		SI322150
Outlet at top/250 A	110x320	32168	1.604	9004840186543		SI321680
Outlet at bottom/250 A	110x320	33216	1.640	9004840202137		SI322160
For circuit breaker Schrack MC1, 3-pole, 160 A	90x200x38	32570		9004840417722		MC195700
Phase separator, 3-pole for MC195700	-	MC1-XKP		9004840560367		MC196609
For circuit breaker Schrack MC2, 3-pole, 250 A	106x200x35	32140		9004840413700		MC291400
Cover for MC291400	-	MC2-XKR4V2		9004840523065		MC291666V2
For circuit breaker Schrack MC3, 3-pole, 500 A		32978		9004840413694		MC391700
Cover for MC391700	-			9004840403312		MC391668
For circuit breaker MG NS 250, 3-pole	106x192x35	32156		9004840250824		SI321560
For circuit breaker MG NS 250, 4-pole	140x270x35	32582		9004840553925		SI325820
For circuit breaker MG NS 400+630, 3-pole	140x272x35	32157		9004840241921		SI321570

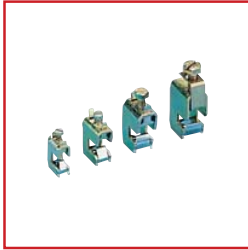


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UNIVERSAL CONDUCTOR CONNECTION TERMINALS



CONDUCTOR CONNECTION TERMINALS

SCHRACK INFO

- For 5 and 10 mm thick busbars, as well as special profiles
- Connection of conductors 1.5-120 mm²
- Integrated retaining spring
- Open terminal compartment and captive terminal screw allow easy mounting
- Nominal cross-section and tightening torque indicated on terminal

RAIL THICKNESS/ TERMINAL CAPACITY/TYPE OF CONDUCTOR	DIM. (WxHxD) mm	PU	TYPE	WEIGHT (kg)	EAN CODE	AVAILABLE	ORDER NO.
5 mm/1.5-16 mm ² /re, rm, f, f+ferrule	11.5x22.5x30	1	01284	0.021	4021267012847		SI012840
5 mm/4-35 mm ² /re, rm, f, f+ferrule, la. Cu 3/6x9x0.8	15.5x29x41	1	01285	0.044	4021267012854		SI012850
5 mm/16-70 mm ² /rm, f, f+ferrule, 2x la. Cu 3/6x9x0.8/6x13x0.5	20.5x32	1	01287	0.071	4021267012878		SI012870
5 mm/16-120 mm ² /rm, f, f+ferrule, la. Cu 4/6/10x16x0.8	23.5x36x60	1	01068	0.108	4021267010683		SI010680
10 mm/1.5-16 mm ² /re, rm, f, f+ferrule, la. Cu 8x6x0.5	11.5x22.5x35	1	01289	0.023	4021267012892		SI012890
10 mm/4-35 mm ² /re, rm, f, f+ferrule, la. Cu 3/6x9x0.8	15.5x29x45	1	01290	0.047	4021267012908		SI012900
10 mm, T profile/16-70 mm ² /rm, f, f+ferrule, 2x la. Cu 3/6x9x0.8	20.5x32	1	01292	0.074	4021267012922		SI012920
10 mm, T profile/16-120 mm ² /rm, f, f+ferrule, la. Cu 10x16x0.8	23.5x36x65	1	01203	0.11	4021267012038		SI012030

TERMINAL CLAMPING PLATE, SERIES WR, FOR 60 mm COMPACT SYSTEM



SI011650

SCHRACK INFO

- Terminal clamping plate, 3-pole, with cap
- For round conductors 35-150 mm²
- For busbars 12 x 5 and 12 x 10 mm

DESCRIPTION	DIM. (WxHxD) mm	PU	TYPE	WEIGHT (kg)	EAN CODE	AVAILABLE	ORDER NO.
Terminal plate, 3-pole for 60 mm compact system	90 x 160 x 115	1	01165	0.575	4021267011659		SI011650



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■ D02 BUS-MOUNTING FUSE BASE, SERIES WR, FOR 60 mm COMPACT SYSTEM



SI315540

■ SCHRACK INFO

- D02 bus-mounting fuse base, touch-proof
- 3-pole, with combination foot for 5 and 10 mm thick busbars of 60 mm compact system
- Latching mechanism when pushed onto the busbar.
- Opened box terminal 1.5 - 25 mm²

DESCRIPTION	PU	TYPE	WEIGHT (kg)	EAN CODE	AVAILABLE	ORDER NO.
D02 bus-mounting fuse base, 60 mm compact system	6	31554	0.130	4021267315542		SI315540
Plastic screw cap, D02, E 18/63 A, 400 V	20	31006	0.012	9004840686746		SI310060

■ COVER PROFILE, SERIES WR, FOR 60 mm COMPACT SYSTEM



SI013140



SI013170

■ SCHRACK INFO

- For covering the 60 mm compact system from the front

DESCRIPTION	DIM. (WxHxD) mm	PU	TYPE	WEIGHT (kg)	EAN CODE	AVAILABLE	ORDER NO.
Cover profile for 60 mm compact system	700 x 160 x 63	2	01314	0.420	4021267013141		SI013140
Holder for cover profiles 01314	5 x 155.5 x 54.5	10	01317	0.018	4021267013172		SI013170



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UNIVERSAL BUSBAR SUPPORT 1250 A, SERIES WR, FOR 100 mm SYSTEM



SI014790

SCHRACK INFO

- High short-circuit and temperature resistance
- Silicone-free, chlorine-free
- Temperature resistance 120 °C/V0
- Leakage current resistance CTI 600
- For hole-free mounting of 30 to 60x10 mm busbars

DESCRIPTION	DIM. (WxHxD) mm	PU	TYPE	WEIGHT (kg)	EAN CODE	AVAILABLE	ORDER NO.
3-pole busbar support for busbar 30-40-50-60 x 10 mm, up to 1250 A	62x320x70	1	01479	0.461	4021267014797		SI014790
End cap for SI014790	22x320x42	1	01254	0.050	4021267012540		SI012540
For drilled busbars from 30x10 to 120x10 mm in 100/185 mm system	32x412x40	1	01004	0.311	9004840148428		SI010040

BUSBAR SUPPORT UP TO 2100 A, SERIES WR, FOR 185 mm SYSTEM



185mm COMPONENTS

SCHRACK INFO

- High short-circuit and temperature resistance
- Silicone-free, chlorine-free
- Temperature resistance 120 °C/V0
- Leakage current resistance CTI 600
- For hole-free mounting of 30 to 120x10, TT and TTT profile busbars (with busbar support SI012300)

DESCRIPTION	DIM. (WxHxD) mm	PU	TYPE	WEIGHT (kg)	EAN CODE	AVAILABLE	ORDER NO.
Drill-free mounting for 30 up to 120x10, TT/TTT profile in 185 mm system	30x580x65	1	01230	0.500	4021267012304		SI012300
For drilled busbars from 30x10 to 120x10 mm in 185 mm system	32x412x40	1	01742	0.727	9004840157086		SI017420
For drilled busbars from 30x10 to 120x10 mm in 100/185 mm system	32x412x40	1	01004	0.311	9004840148428		SI010040

COPPER BUSBARS



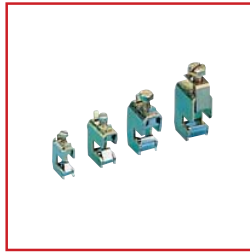
DESCRIPTION	DIM. (WxHxD) mm	PU	TYPE	WEIGHT (kg)	EAN CODE	AVAILABLE	ORDER NO.
40x10 busbar tin-plated/830 A	2400x40x10	1	01626	8544	9004840169898		SI016260
50x10 busbar tin-plated/830 A	2400x50x10	1	01627	10680	9004840173468		SI016270
60x10 busbar tin-plated/830 A	2400x60x10	1	01628	12816	9004840168327		SI016280

Other busbars on request.



Order no. blue: on stock, usually ready for delivery on the day of order!

UNIVERSAL CONDUCTOR CONNECTION TERMINALS



CONDUCTOR CONNECTION TERMINAL

SCHRACK INFO

- For 5 and 10 mm thick busbars, as well as special profiles
- Connection of conductors 1.5-120 mm²
- Integrated retaining spring
- Open terminal compartment and captive terminal screw allow easy mounting.
- Nominal cross-section and tightening torque indicated on terminal.

RAILS THICKNESS/ CROSS-SECTION/TYPE OF CONDUCTOR	DIM. (WxHxD) mm	PU	TYPE	WEIGHT (kg)	EAN CODE	AVAILABLE	ORDER NO.
10 mm/1.5-16 mm ² /re, rm, f, f+ferrule	11.5x22.5x35	1	01289	0.023	4021267012892		SI012890
10 mm/4-35 mm ² /re, rm, f, f+ferrule, la. Cu 3/6x9x0.8	15.5x29x45	1	01290	0.047	4021267012908		SI012900
10 mm, TT, TTT profiles/16-70 mm ² /rm, f, f+ferrule, 2x la. Cu 3/6x9x0.8	20.5x32	1	01292	0.074	4021267012922		SI012920
10 mm, TT, TTT profiles/16-120 mm ² /rm, f, f+ferrule, la. Cu 10x16x0.8	23.5x36x65	1	01203	0.110	4021267012038		SI012030

CONNECTION CLAMPS FOR SMALL BUSBARS



SI010920

SCHRACK INFO

- Connection of conductors 95-300 mm²/ re, rm, se, f, or small busbars up to 40x25, with busbars 30x10, TT, TTT profile
- Connection for small busbars and flexible copper busbars up to 41x25, with busbars 40x10-60x10
- Nominal cross-section and tightening torque indicated on terminal.

DESCRIPTION	DIM. (WxHxD) mm	PU	TYPE	WEIGHT (kg)	EAN CODE	AVAILABLE	ORDER NO.
30x10 TT, TTT profile/for 95-300 mm ²	47x60x85	3	01094	0.879	4021267010942		SI010940
60x10/for small busbars 41x25	60x78x100	3	01034	1.073	9004840156317		SI010340
40x10/for small busbars 41x25	60x58x100	3	01032	0.917	9004840156294		SI010320

BUSBAR COVER

DESCRIPTION	PU	TYPE	WEIGHT (kg)	EAN CODE	AVAILABLE	ORDER NO.
For busbars 30-60 x 10, 1 m length	1	01251	0.093	9004840224054		SI012510



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ARROW LINE HRC FUSE SWITCH DISCONNECTOR BUSBARS, FOR 100/185 mm SYSTEM



ISA05261



ISA05311

TECHNICAL DATA

Size 00, 1, 2, 3:	3-pole
Convent. thermal current in free air:	160/250/400/630 A
Max. permissible nominal power loss of the NH fuse links:	12/32/45/48 W
Max. permissible nominal power loss of the consumption meters:	1.2/3/8/48 W
Rated operating voltage U _e :	AC 400/500/690 V
Utilisation category:	AC 23/22/21B
Rated insulation voltage U _i :	800/1000/1000/1000 V
Rated surge voltage protection U _{imp} :	8 kV
Rated frequency:	50-60 Hz
Degree of protection:	IP 30
Pollution degree:	3
Rated duty:	Uninterrupted
Rated short circuit making capacity:	6.1/8/8/12.6 kA per second
Conditional rated short-circuit current when protected by fuses:	80/120/120/120 kA
Power loss at 160 A without NH fuse links:	18/23/54/115 W

DESCRIPTION	CU WEIGHT (g)	EAN CODE	AVAILABLE	ORDER NO.
ARROW LINE – SIZE 00, TYPE UP TO 160 A				
Load-breaking strip 3p size 00 up to 160 A, 100 mm busbar system, M8 + cable cover	420	9004840689228		ISA05261
Single adapter size 00, 100 mm to 185 mm busbar system	276	9004840689334		ISA05327
Double adapter size 00, 100 mm to 185 mm busbar system	466	9004840689327		ISA05326
Cover shroud to equalise different installation heights, size 00-I, II, III	-	9004840689341		ISA05329
ARROW LINE – SIZE 1, TYPE UP TO 250 A				
Size 1 up to 250 A, 3-pole breakable M10, for 185 mm busbar system	1943	9,00484E+12		ISA05305-A
ARROW LINE – SIZE 2, TYPE UP TO 400 A				
Size 2 up to 400 A, 3-pole breakable M12 for 185 mm busbar system	1943	9004840519570		ISA05311-A
ARROW LINE – SIZE 3, TYPE UP TO 630 A				
Size 3 up to 630 A, 3-pole breakable M12 for 185 mm busbar system	2662	9,00484E+12		ISA05320-A



■ FUSE LINKS TYPE 00.SE TO 3.SE, 400V AC



ISP01250

■ SCHRACK INFO

These NH fuse links are used to protect cables and wires. They safely disconnect impermissible overcurrents up to the nominal disconnect current. Size 000 (C00) up to 100 A, only 2 cm wide. The electrical resistance of the fuse links can be reduced by special design of the fuse wires for AC 400 V versus 500 V AC. Less power loss and heat-up – the fuses are energy-saving!

■ TECHNICAL DATA

- Insulation body made from Stealit
- Contact blades from one piece
- Anti-magnetic cover sheets
- Top indicator
- Operating class: gG in acc. to IEC 60269
- Corrosion-resistant




















■ BENEFITS

- Significantly lower power loss than fuse links AC 500 V “gG”
- Lower energy consumption – cost reduction
- Reduced heating (by up to 20%)
- Longer life
- Easy replacement of the existing fuse links AC 500 V – same dimensions

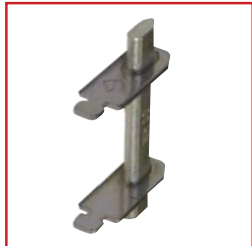
Mixed set of fuse links AC 400 V and AC 500 V possible without any problems, because of identical same current/ time curve – gradual replacement possible

CURRENT	AMPERE	PU	EAN CODE	AVAILABLE	ORDER NO.
SIZE 000 + 00					
000 + 00	4 A	3	9004840507522		ISP00004
000 + 00	6 A	3	9004840507553		ISP00006
000 + 00	0 A	3	9004840507577		ISP00010
000 + 00	16 A	3	9004840507591		ISP00016
000 + 00	20 A	3	9004840507638		ISP00020
000 + 00	25 A	3	9004840507645		ISP00025
000 + 00	32 A	3	9004840507652		ISP00032
000 + 00	35 A	3	9004840507713		ISP00035
000 + 00	40 A	3	9004840507720		ISP00040
000 + 00	50 A	3	9004840507737		ISP00050
000 + 00	63 A	3	9004840507744		ISP00063
000 + 00	80 A	3	9004840507751		ISP00080
000 + 00	100 A	3	9004840507775		ISP00100
SIZE 00					
00	125 A	3	9004840507829		ISP00125
00	160 A	3	9004840507836		ISP00160
SIZE 1					
1	35 A	3	9004840507843		ISP01035
1	50 A	3	9004840507850		ISP01050
1	63 A	3	9004840507898		ISP01063
1	80 A	3	9004840507904		ISP01080
1	100 A	3	9004840507911		ISP01100
1	125 A	3	9004840507959		ISP01125
1	160 A	3	9004840507966		ISP01160
1	200 A	3	9004840507973		ISP01200
1	250 A	3	9004840508017		ISP01250





FUSE LINKS TYPE 00.5E TO 3.5E – continued

CURRENT	AMPERE	PU	EAN CODE	AVAILABLE	ORDER NO.
SIZE 2					
2	35 A	3	9004840508031		ISP02035
2	50 A	3	9004840508055		ISP02050
2	63 A	3	9004840508079		ISP02063
2	80 A	3	9004840508116		ISP02080
2	100 A	3	9004840508123		ISP02100
2	125 A	3	9004840508130		ISP02125
2	160 A	3	9004840508154		ISP02160
2	200 A	3	9004840538496		ISP02200
2	225 A	3	9004840508239		ISP02225
2	250 A	3	9004840508246		ISP02250
2	315 A	3	9004840508253		ISP02315
2	400 A	3	9004840508307		ISP02400
SIZE 3					
3	200 A	3	9004840508314		ISP03200
3	250 A	3	9004840508369		ISP03250
3	315 A	3	9004840508376		ISP03315
3	400 A	3	9004840508383		ISP03400
3	500 A	3	9004840508390		ISP03500
3	630 A	3	9004840508413		ISP03630
SIZE 4					
4	800 A	3	9004840553680		ISP04800

HRC-KNIFE LINK, SIZE 00-3



S1031610

NOMINAL VOLTAGE/SIZE	PU	TYPE	WEIGHT (kg)	EAN CODE	AVAILABLE	ORDER NO.
160A/size 00	3	03161	0.06	9004840157673		S1031610
250 A/size 1	3	03162	0.14	9004840157680		S1031620
400 A/size 2	3	03163	0.19	9004840157697		S1031630
630 A/size 3	3	03164	0.26	9004840218879		S1031640

■ CENTER FEED UNIT, UP TO 4000 A



CENTRAL SUPPLY

■ SCHRACK-INFO

Easy installation through

- Mounting without drilling
- Clear design
- Flexible design widths
- Universal arrangement of the busbars

- Variable number of terminal points
- Precise adjustment of outlets
- Complete gripping by jaw-type terminals
- Substantial time and cost savings
- Other types and currents on request

■ TIPS & TRICKS

Individual construction (e.g., system width) is possible by individual components

■ TECHNICAL DATA

**Basic systems consist of
Type-tested combination of devices
DIN EN 60439 Part 1:**

- 3- or 4-pole design
- Rated operating voltage: 690 V AC
- Rated insulation voltage: 1000 V AC
- Double T busbar up to 2000 A
- Triple T busbar up to 3200 A
- TCC busbar up to 4000 A

High intrinsic safety:






- Current carrying capacity up to 4000 A
- Short-circuit resistance 120 kA
- Type-tested standard constructions

DESCRIPTION	DIM. (WxHxD) mm	PU	WEIGHT (kg)	EAN CODE	AVAILABLE	ORDER NO.
For 600 mm cabinet width up to 1250 A	540x300x300	1	14.5	9004840169904		SI350070
For 800 mm cabinet width up to 3200 A	740x300x300	1	29.4	9004840174441		SI350160
Busbar support for external central supply	300x300	1	4.58	9004840191721		SI350080
Busbar support 4-pole centre TT	300x300	1	4.58	9004840191714		SI350090

■ CONNECTION TERMINALS FOR CENTER FEED UNIT



SI012030

DESCRIPTION	PU	TYPE	WEIGHT (kg)	EAN CODE	AVAILABLE	ORDER NO.
16-120 mm ² , rm, f+AC and Ia. Cu up to max. 440 A terminal compartment 17x15	25	01203	0.109	4021267012038		SI012030
95-300 mm ² , re, se, sm, f, f+AC up to max. 630 A terminal compartment 41x31	3	01094	0.857	4021267010942		SI010940
Cu and Al 95-185 mm ² , rm, sm, f up to max. 500 A terminal compartment 30x25	6	01318	0.312	4021267013189		SI013180
Cu and Al 120-300 mm ² , rm, sm, f up to max. 600 A terminal compartment 32x25	3	01760	0.425	4021267017606		SI017600
600-900 mm ² terminal compartment 64x5-28 up to max. 1600 A double T profile	3	01907	0.84	9004840157277		SI019070
1000-2000 mm ² terminal compartment 101x20-42 up to max. 1600 A double T profile	3	01935	1.137	9004840157307		SI019350

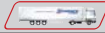




COPPER BUSBARS BLANK AND TIN-PLATED

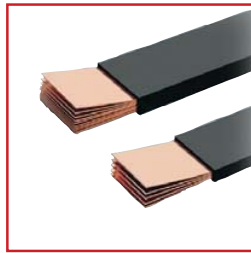


DESCRIPTION/NOMINAL CURRENT	DIM. (LxWxD) mm	FINISH	CU WEIGHT (g)	EAN CODE	AVAILABLE	ORDER NO.
10 x 3						
Copper busbar	1000 x 10 x 3	blank		9004840615654		IS505108
12 x 5						
200 A, busbar	2400 x 12 x 5	tin-plated	1,282	9004840211498		SI016180
15 x 5						
250 A, busbar	2400 x 15 x 5	tin-plated	1,602	9004840245738		SI016190
20 x 5						
274 A (320 A), busbar	2000 x 20 x 5	blank	1,838	9004840044188		IS505068
320 A, busbar	2400 x 20 x 5	tin-plated	2,136	9004840157024		SI016200
20 x 10						
520 A, busbar	2400 x 20 x 10	tin-plated	4,272	9004840157048		SI016240
30 x 5						
379 A (450 A) busbar	2000 x 30 x 5	blank	2,818	9004840044195		IS505069
450 A, busbar	2400 x 30 x 5	tin-plated	3,204	9004840157031		SI016220
Cranked busbar	355 + 550	cranked/blank	-	9004840276886		BS900198
Cranked copper busbar	957 + 75 + 953	cranked/blank	2,700	9004840589566		IS505107
30 x 10						
573 A (630 A), busbar	2000 x 30 x 10	blank	5,570	9004840044386		IS505087
630 A, busbar	2400 x 30 x 10	tin-plated	6,408	9004840157055		SI016250
630 A, busbar	3600 x 30 x 10	tin-plated	9,610	9004840184723		SI012040
40 x 10						
850 A, busbar	2400 x 40 x 10	tin-plated	8,544	9004840169898		SI016260
50 x 10						
1000 A, busbar	2400 x 50 x 10	tin-plated	10,680	9004840173468		SI016270
60 x 10						
1250 A, busbar	2400 x 60 x 10	tin-plated	12,816	9004840168327		SI016280
80 x 10						
1500 A, busbar	2400 x 80 x 10	tin-plated	17,088	9004840184761		SI017650
100 x 10						
1800 A, busbar	2400 x 100 x 10	tin-plated	21,360	9004840218893		SI017660
120 x 10						
2100 A, busbar	2400 x 120 x 10	tin-plated	25,630	9004840218909		SI017670

T PROFILE-BUSBARS

DESCRIPTION/NOMINAL CURRENT	DIM. (L) mm	FINISH	CU WT. (g)	EAN CODE	AVAILABLE	ORDER NO.
DOUBLE T PROFILE BUSBARS 500 mm² UP TO 1250 A						
1250 A, TT profile	2400	blank	10,440	9004840391220		SI012500
1250 A, TT profile	2400	tin-plated	10,440	9004840187861		SI016090
1250 A, TT profile	3600	blank	15,660	9004840261646		SI012230
1250 A, TT profile	3600	tin-plated	15,660	9004840184754		SI012240
DOUBLE T PROFILE BUSBARS 720 mm² UP TO 1600 A						
1600 A, TT profile	2400	blank	15,400	9004840216837		SI012490
1600 A, TT profile	2400	tin-plated	15,400	9004840156966		SI016080
1600 A, TT profile	3600	blank	23,100	9004840259049		SI012290
1600 A, TT profile	3600	tin-plated	23,100	9004840156553		SI011900
TRIPLE T PROFILE BUSBARS 1140 mm² UP TO 2500 A						
2500 A, TTT profile	2400	tin-plated	24,360	9004840199529		SI011870
2500 A, TTT profile	3600	tin-plated	36,540	9004840230987		SI012270

FLEXIBLE COPPER BUSBARS



LAMINATED COPPER BUSBARS



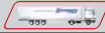






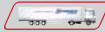

SCHRACK INFO

- Temperature resistance of insulation 105 °C
- Current data at 40 °C ambient temperature and heating of the conductor surface of 45 K
- Flexible and pliable

Other cross-sections and tin-plated versions on request

TIPS & TRICKS

Processing flexible copper saves approx. 25% conductor material and approx. 30% fastener material (e.g., 90° connections) compared to rigid copper

DESCRIPTION/NOMINAL CURRENT	DIM. (LxWxD) mm	FINISH	CU WEIGHT (g)	EAN CODE	AVAILABLE	ORDER NO.
245 A, 6 x 9 x 0,8, insulated	2000 x 13 x 6		769	9004840156560		SI011940
253 A, 6 x 13 x 0,5, insulated	2000 x 17 x 7		694	9004840209617		SI010500
320 A, 4 x 16 x 0,8, insulated	2000 x 20 x 7		883	9004840156577		SI011960
360 A, 3 x 20 x 1, insulated	2000 x 24 x 7		1,068	9004840199567		SI010270
360 A, 3 x 20 x 1, insulated	2000 x 24 x 7	tin-plated	1.068	9004840222777		SI010620
462 A, 6 x 20 x 1, insulated	2000 x 24 x 10		2,136	9004840199574		SI010280
640 A, 5 x 32 x 1, insulated	2000 x 30 x 9		2,848	9004840156973		SI016120
645 A, 10 x 20 x 1, insulated	2000 x 24 x 14		3,560	9004840260755		SI010290
514 A, 5 x 24 x 1, insulated	2000 x 28 x 9		2,136	9004840214376		SI016110
800 A, 10 x 24 x 1, insulated	2000 x 28 x 14	blank	4,272	9004840156539		SI011840
1040 A, 10 x 32 x 1, insulated	2000 x 36 x 14		5,696	9004840156980		SI016130
760 A, 5 x 40 x 1, insulated	2000 x 44 x 9		3,560	9004840184716		SI016140
1181 A, 10 x 40 x 1, insulated	2000 x 44 x 14		7,120	9004840156997		SI016150
930 A, 5 x 50 x 1, insulated	2000 x 54 x 9		4,450	9004840199550		SI010600
1395 A, 10 x 50 x 5, insulated	2000 x 54 x 14		8,900	9004840156874		SI015090
455 A, 10 x 15 x 0,8, insulated	2000 x 20 x 12		2,207	9004840156928		SI015830
1600 A, 10 x 63 x 1, insulated	2000 x 67 x 14		11,214	9004840156881		SI015100
1775 A, 10 x 80 x 1, insulated	2000 x 84 x 14		14,240	9004840231120		SI010610
1985 A, 10 x 100 x 1, insulated	2000 x 104 x 14		17,800	9004840259537		SI012730

CUPONAL



CU201003

SCHRACK INFO

Cuponal busbars are used worldwide for the following applications:

- Distributors for low-voltage applications
- Distributors for high-voltage applications
- Control cabinets
- Busbar distribution systems

DESCRIPTION/CONTINUOUS CURRENT AT 65 °C BUSBAR TEMPERATURE	DIM. (LxWxD) mm	PU	TYPE	WEIGHT (kg)	EAN CODE	AVAILABLE	ORDER NO.
10x3/94 A	2000x10x3	1	CU 2-94	0.108	9004840017090		CU201003
20x3/168 A	2000x20x3	1	CU 2-168	0.214	9004840066401		CU202003
20x5/225 A	2000x20x5	1	CU 2-225	0.356	9004840017106		CU202005
20x5/225 A - sharp-edged	2000x20x5	1	CU 2-225S	0.363	9004840182590		CU2S2005
30x5/313 A	2000x30x5	1	CU 2-313	0.538	9004840017113		CU203005
30x5/313 A - sharp-edged	2000x30x5	1	CU 2-313S	0.545	9004840182606		CU2S3005
40x5/400 A	2000x40x5	1	CU 2-400	0.719	9004840068658		CU204005
30x10/472 A	2000x30x10	1	CU 2-472	1.0618	9004840017120		CU203010
30x10/472 A - sharp-edged	2000x30x10	1	CU 2-472S	1.098	9004840182613		CU2S3010
40x10/595 A	2000x40x10	1	CU 2-595	1.424	9004840017137		CU204010
50x10/705 A	2000x50x10	1	CU 2-705	1.787	9004840017151		CU205010
60x10/820 A	2000x60x10	1	CU 2-820	2.150	9004840017168		CU206010
80x10/1030 A	2000x80x10	1	CU 2-1030	2.876	9004840017175		CU208010

ACCESSORIES FOR COPPER BUSBARS

DESCRIPTION	PU	EAN CODE	AVAILABLE	ORDER NO.
Carrier for copper busbars 10 x 3	50	9004840615647		IS505110
Holder for laminated copper busbars 5 - 10 mm	4	9004840406863		SI013030



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IK011030

SCHRACK INFO

- Nominal voltage 1 kV, overvoltage category I-IV, surge voltage 12 kV - IEC 61 180
- Heat-stabilised, glass-fibre reinforced polyester
- Resistant to heat aging, mildew, termites, oil, grease, petrol, alcohol, UV light and tropical climate

TECHNICAL DATA

- Halogen-free (no corrosive, toxic gases released in the event of fire)
- Fire classification VO according to UL 94
- Maximum tightening torque: 20 / 20 / 60 / 80 Nm
- Tensile forces greater than / 6000 / 6000 / 8000 / 12000 Nm
- Complies with CTI 600-EW 60112
- Resistant to leakage current
- Cold impact-resistant, high break, tensile and compressive forces
- HH type throughout hexagonal, RH type with hexagonal flange

DESCRIPTION	DIM. (DxH) mm	PU	EAN CODE	AVAILABLE	ORDER NO.
M6					
2 x M6, 40 mm high, wrench opening 35, torque 3.5 kN	Ø 32 x H40	50	9004840498059		IK011030-A
M8					
2 x M8, 40 mm high, wrench opening 35, torque 4 kN	Ø 32 x H40	50	9004840498097		IK011032-A
2 x M8, 50 mm high, wrench opening 35, torque 3.5 kN	Ø 32 x H50	50	9004840589979		IK011036-A
M10					
2 x M10, 40 mm high, wrench opening 35, torque 8 kN	Ø 42 x H40	50	9004840498066		IK011031-A
2 x M10, 45 mm high, wrench opening 35, torque 8 kN	Ø 42 x H45	25	9004840589986		IK011037-A
2 x M10, 60 mm high, wrench opening 35, torque 8 kN	Ø 60 x H60	10	9004840589993		IK011038-A
M12					
2 x M12, 50 mm high, wrench opening 35, torque 12 kN	Ø 60 x H50	10	9004840498103		IK011033-A
2 x M12, 80 mm high, wrench opening 35, torque 10 kN	Ø 60 x H80	10	9004840590005		IK011039-A



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- Access technical product information at any time and from everywhere
- See availability and price immediately
- Order desired products easily

SUPPORT INSULATORS WITH FEMALE THREADS



SI057800

SCHRACK INFO

- Halogen-free
- Temperature-resistant 250 °C
- Self-extinguishing according to UL 94
- Leakage current resistance CTI 600

DESCRIPTION	DIM. (WxHxD) mm	PU	EAN CODE	AVAILABLE	ORDER NO.
M6					
2 x M6, wrench opening 17, rated voltage 0.6 kV	17 x 17 x 20	100	4021267057794		SI057790
2 x M6, wrench opening 30, rated voltage 1.5 kV	30 x 30 x 30	20	9004840422955		SI057800
M8					
2 x M8, wrench opening 30, rated voltage 1.5 kV	30 x 30 x 30	20	9004840506846		SI057920
2 x M8, wrench opening 30, rated voltage 1.5 kV	32 x 32 x 35	20	9004840186307		SI057820
2 x M8, wrench opening 40, rated voltage 2 kV	40 x 40 x 40	20	4021267057831		SI057830
2 x M8, wrench opening 46, rated voltage 2 kV	46 x 46 x 45	20	4021267057862		SI057860
2 x M8, wrench opening 36, rated voltage 2 kV	36 x 36 x 50	20	9004840246919		SI057900
M10					
2 x M10, wrench opening 50, rated voltage 2 kV	36 x 36 x 50	20	9004840404258		SI057880

SUPPORT INSULATORS WITH FEMALE AND MALE THREADS



SI058000

SCHRACK INFO

- Halogen-free
- Temperature-resistant 250 °C
- Self-extinguishing according to UL 94
- Leakage current resistance CTI 600

DESCRIPTION	DIM. (WxHxD) mm	PU	EAN CODE	AVAILABLE	ORDER NO.
M6					
2 x M6, wrench opening 30, rated voltage 1.5 kV	30 x 30 x 30	20	4021267058005		SI058000
2 x M6, wrench opening 32, rated voltage 1.5 kV	30 x 30 x 35	20	9004840493979		SI058010
M8					
2 x M8, wrench opening 32, rated voltage 1.5 kV	35 x 35 x 35	20	9004840186314		SI058020

