

MULTIFIX® 60

MULTIBLOC® NH Fuse Switch Disconnecter

Components for 60mm Systems

MULTIFIX® 60 is a system for energy distribution comprising a variety of modular combinable components. The energy distribution is carried out via copper bus bars in a 60 mm bus bar system up to 630 A, 400 V AC, 500 V AC, 690 V AC, 45–62 Hz. Short circuit withstand tested to VDE 0660 part 500 and IEC 60439-1.

MULTIFIX® 60 is suitable for triple pole, quadruple pole and quintuple pole applications.

The components of the MULTIFIX® 60 system are mounted directly without drilling. This method offers high flexibility for extension and alteration of existing installations -> reduced installation time.

MULTIBLOC® NH-fuse switch disconnectors are available in triple pole units in size 000, 100A size 00, 160A size 1 250A and size 2 400A. They are designed for direct installation without drilling on to 60 mm bus bar system and establish the current connection via direct contact. MULTIBLOC® 000.RST8 size 000, 100A is has a reduced width of 54 mm for space saving installation. MULTI ULTI BLOC® 00.RST 9 size 00, 160 A is designed for direct installation without tools, the installation depth is reduced to 95,5 mm. 1.RST8 and 2.RST8 size 1, 250A and size 2, 400A are symmetrical switches – suitable for bottom/top cable terminal connections.

Features Benefits

- For bus bars with width 12 - 30 mm and thickness 5 - 10 mm

Applications

- Panel board builders
- Control system engineering
- Industrial plants
- Heating & air conditioning systems

Technical data overview

Volt (VAC)	690 VAC
Ampere Range (A)	100 ... 400 A
Size per Standard	000, 00, 1, 2
Product Size	NH000, NH00, NH1, NH2
Number of Poles	3
Switchability	triple pole switching

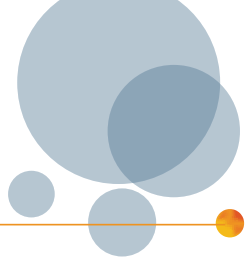


Standards

IEC/EN 60 947-3

For NH-fuse links size 000/00 in accordance with IEC/EN 60 269-2, VDE 0636-2





Product range



1.002.571

MULTIBLOC® 000.RST8 size 000 100 A, 690 V AC bus bar installation, triple pole

Catalog number	Reference number	Poles	Cable termination components	Weight kg ¹⁾	Package
1.002.571	L1002166	3	3 frame clamps 2,5-50 mm ² bottom terminal	0.60	1 piece
1.002.572	L1023050	3	3 frame clamps 2,5-50 mm ² top terminal	0.62	1 piece



3.084.000

MULTIBLOC® 00.RST9 size 00 160 A, 690 V AC bus bar installation, triple pole

Catalog number	Reference number	Poles	Bus bar installation	Cable termination components	Design	Weight kg ¹⁾	Package
3.084.000	Z1022993	3	60 mm snap on	3 M8 terminal screws 3 clamp straps 4-70 mm ²	-	0.93	1 piece
3.083.000	X1022991	3	60 mm snap on	3 frame clamps Cu 2,5-70 mm ² factory assembled	-	0.88	1 piece
3.084.300	D1022997	3	60 mm snap on	3 M8 terminal screws 3 clamp straps 4-70 mm ²	fixed window to protect against unauthorized connection	0.88	1 piece
3.083.300	Y1022992	3	60 mm snap on	3 frame clamps Cu 2,5-70 mm ² factory assembled	fixed window to protect against unauthorized connection	0.88	1 piece
3.084.100	B1022995	3	60 mm snap on	3 M8 terminal screws 3 clamp straps 4-70 mm ²	with electronic fuse monitoring ESÜ installed	0.96	1 piece
3.084.200	C1022996	3	60 mm snap on	3 M8 terminal screws 3 clamp straps 4-70 mm ²	with electro-mechanic fuse monitoring MZS installed (galvanic isolation)	1.46	1 piece
2.074.000	W1022990	3	40 mm clamping bar	3 M8 terminal screws 3 clamp straps 4-70 mm ²	-	1.06	1 piece



3.084.100



3.084.200



1.000.323

MULTIBLOC® 1.RST8 size 1 250 A, 690 V AC bus bar installation, triple pole

Catalog number	Reference number	Poles	Cable termination components	Design	Weight kg ¹⁾	Package
1.000.323	T229879	3	3 M10 terminal screws	-	3.09	1 piece
1.001.294	Q1023054	3	3 clamp straps 70-150 mm ²	-	3.06	1 piece
1.003.134	R1023055	3	3 M10 terminal screws	with electronic fuse monitoring ESÜ installed	3.14	1 piece
1.000.855	M1023051	3	3 M10 terminal screws	with electro-mechanic fuse monitoring MZS installed (galvanic isolation)	3.80	1 piece
1.000.936	P1023053	3	6 M10 terminal screws	main incomer	4.68	1 piece

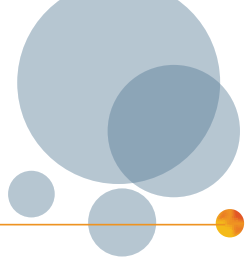


1.003.134



1.000.855

1) weight in kg per piece or set including package



Product range



1.000.704



1.003.135



1.000.856

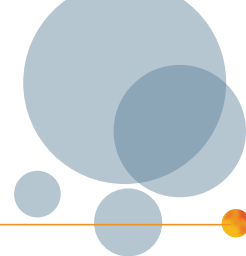
MULTIBLOC® 2.RST8 size 2 400 A, 690 V AC bus bar installation, triple pole

Catalog number	Reference number	Poles	Cable termination components	Design	Weight kg ¹⁾	Package
1.000.704	M1002167	3	3 M10 terminal screws	-	4.77	1 piece
1.001.295	C1023065	3	3 clamp straps 120–240 mm ²	-	4.61	1 piece
1.003.135	D1023066	3	3 M10 terminal screws	with electronic fuse monitoring ESÜ installed	4.60	1 piece
1.000.856	Z1023062	3	3 M10 terminal screws	with electro-mechanic fuse monitoring MZS installed (galvanic isolation)	5.28	1 piece
1.001.028	A1023063	3	6 M10 terminal screws	main incomer	5.74	1 piece

Technical data in accordance with EN / IEC 60947

	000.RST8 triple pole	00.RST9 triple pole	1.RST8 triple pole	2.RST8 triple pole
Installation mode	bus bar installation	bus bar installation	bus bar installation	bus bar installation
Size	000	00	1	2
Number of poles/phases	3	3	3	3
Conventional free air thermal current with NH-fuse links I _{th}	100 A	160 A	250 A	400 A
Max. power dissipation of fuse links P _n	7,5 W	12 W	23 W	34 W
Conventional free air thermal current with solid links I _{th}	-	200 A	400 A	530 A
Max. power dissipation of solid links P _n	-	1,2 W	2,6 W	9 W
Utilization category to IEC/EN 60947-3				
U _e = AC 400 V; I _e = 160 A	-	AC 23 B	-	-
U _e = AC 400 V; I _e = 250 A	-	-	AC 23 B	-
U _e = AC 400 V; I _e = 400 A	-	-	-	AC 23 B
U _e = AC 500 V; I _e = 160 A	-	AC 22 B	-	-
U _e = AC 500 V; I _e = 250 A	-	-	AC 22 B	-
U _e = AC 500 V; I _e = 400 A	-	-	-	AC 22 B
U _e = AC 690 V; I _e = 100 A	AC 22 B	-	-	-
U _e = AC 690 V; I _e = 125 A	-	AC 21 B	-	-
U _e = AC 690 V; I _e = 200 A	-	-	AC 21 B	-
U _e = AC 690 V; I _e = 315 A	-	-	-	AC 21 B
U _e = DC 220 V; I _e = 160 A	-	DC 22 B	-	-
U _e = DC 440 V; I _e = 100 A	DC 21 B	DC 21 B	-	-
U _e = DC 440 V; I _e = 250 A	-	-	DC 21 B	-
U _e = DC 440 V; I _e = 400 A	-	-	-	DC 21 B
Rated operational voltage U _e	690 V	690 V	690 V	690 V
Rated insulation voltage U _i	1000 V	1000 V	1000 V	1000 V
Rated impulse withstand voltage U _{imp}	6 kV	8 kV	12 kV	12 kV
Rated frequency	50 ... 60 Hz	50 ... 60 Hz	50 ... 60 Hz	50 ... 60 Hz
Degree of protection	IP 20	IP 0	IP 20	IP 20

1) weight in kg per piece or set including package



Technical data in accordance with EN / IEC 60947

	000.RST8 triple pole	00.RST9 triple pole	1.RST8 triple pole	2.RST8 triple pole
Degree of pollution	3	3	3	3
Rated duty	uninterrupted duty	uninterrupted duty	uninterrupted duty	uninterrupted duty
Rated short circuit making capacity with solid links I_{cm}	-	6.2 kAsw	8.2 kAsw	10.6 kAsw
Rated short circuit making capacity with fuse links				
U _e = AC 400 V; I _e = 160 A	-	80 kA	-	-
U _e = AC 400 V; I _e = 100 A	80 kA	-	-	-
U _e = AC 400 V; I _e = 250 A	-	-	80 kA	-
U _e = AC 400 V; I _e = 400 A	-	-	-	80 kA
U _e = AC 500 V; I _e = 160 A	-	80 kA	-	-
U _e = AC 500 V; I _e = 250 A	-	-	50 kA	-
U _e = AC 500 V; I _e = 400 A	-	-	-	80 kA
U _e = AC 690 V; I _e = 200 A	-	-	50 kA	-
U _e = AC 690 V; I _e = 100 A	80 kA	-	-	-
U _e = AC 690 V; I _e = 125 A	-	80 kA	-	-
U _e = AC 690 V; I _e = 315 A	-	-	-	80 kA
Rated short circuit withstand current I_{cw}	-	4 kA / 1 s	8 kA / 1 s	13 kA / 1 s
Power dissipation by I _{th} without NH-fuse links	-	10 W	28 W	53 W
Power dissipation by I _{th} without solid links	-	16 W	-	-

Cable terminal connection

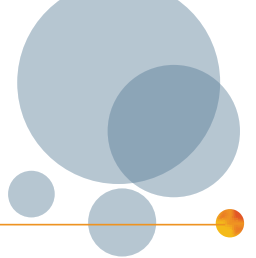
Standard cable terminal	frame clamp 2.5-50mm ²	M8	M10	M10
for cable lugs Cu max.	-	2 x 70 mm ²	2 x 150 mm ²	2 x 185 mm ²
for cable lugs Al max.	-	2 x 70 mm ²	2 x 185 mm ²	2 x 240 mm ²
for copper bars with max. dimensions	-	20 x 5 mm	30 x 10 mm	35 x 10 mm

Bus bar terminal connection

Bus bar system	60 mm	40 mm 60 mm	40 mm 60 mm	40 mm 60 mm
Bus bar width (bus bar system = 40 mm)	-	12 mm	12 mm	12 mm
Bus bar thickness (bus bar system = 40 mm)	-	5 ... 10 mm	5 ... 10 mm	5 ... 10 mm
Bus bar width (bus bar system = 60 mm)	12 ... 30 mm	12 ... 30 mm	12 ... 30 mm	12 ... 30 mm
Bus bar thickness (bus bar system = 60 mm)	5 ... 10 mm	5 ... 10 mm	5 ... 10 mm	5 ... 10 mm

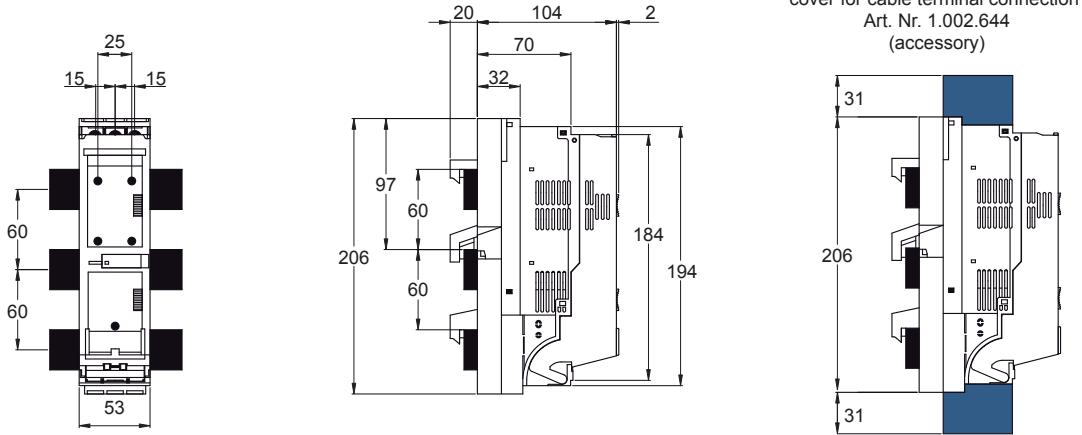
MULTIFIX® 60

MULTIBLOC® NH Fuse Switch Disconnecter

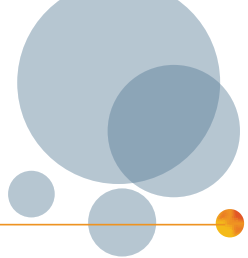


Dimensions

MULTIBLOC® 000.RST8 NH-fuse switch disconnecter triple pole design for bus bar installation (M02047)

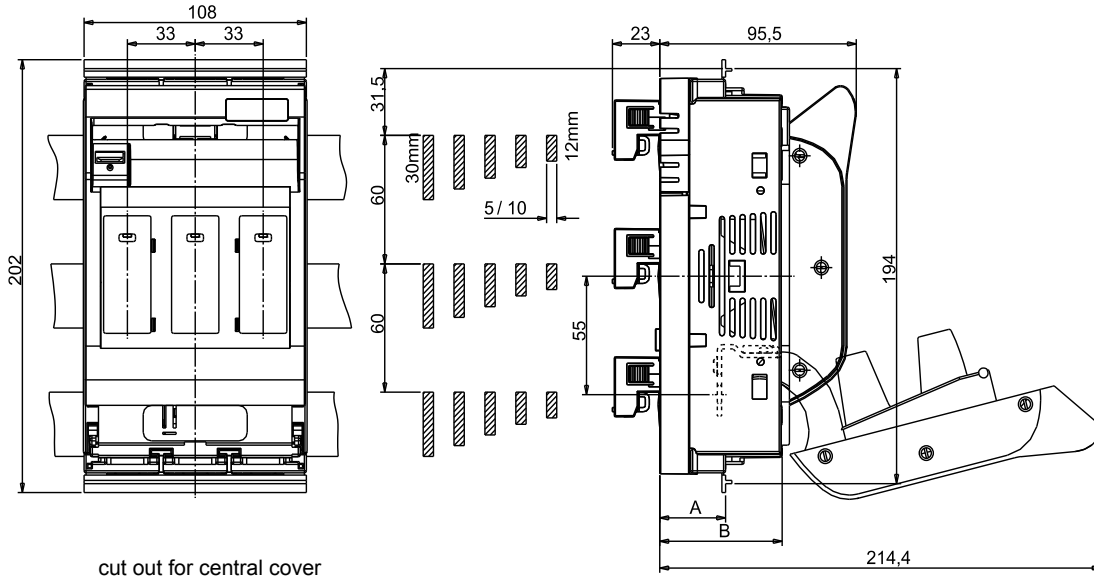


Dimensions in mm

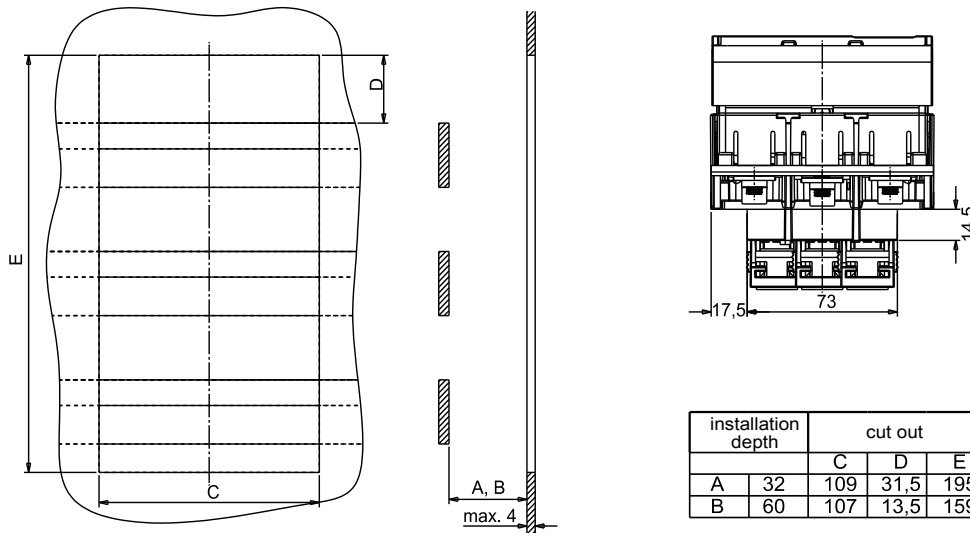


Dimensions

MULTIBLOC® 00.RST9 NH-fuse switch disconnecter triple pole design for bus bar installation (M01170)

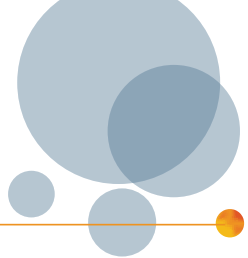


cut out for central cover



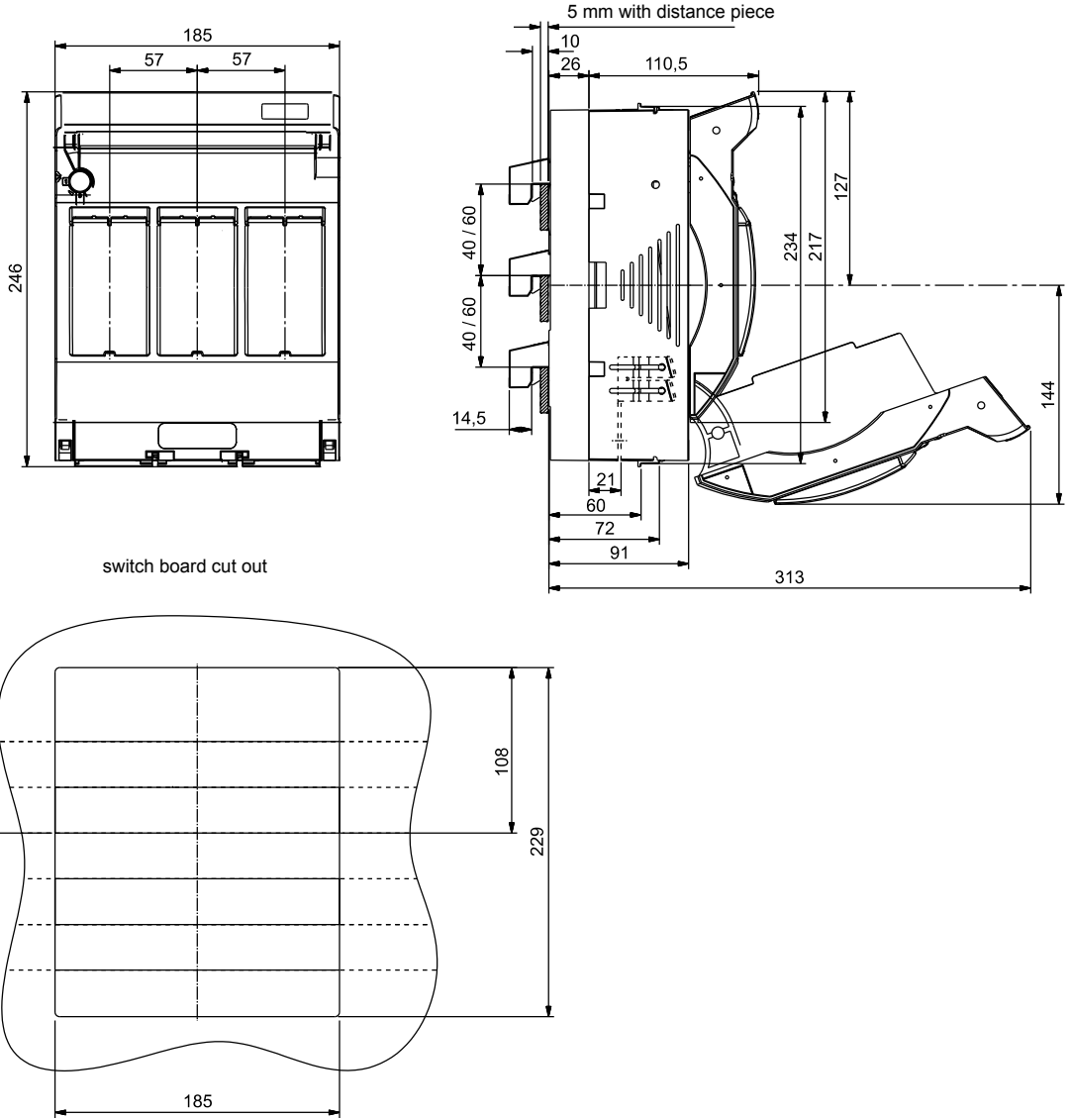
installation depth	cut out			
	C	D	E	
A	32	109	31,5	195
B	60	107	13,5	159

Dimensions in mm

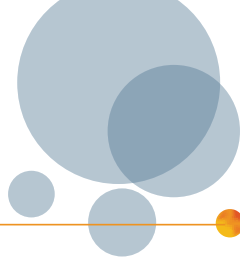


Dimensions

MULTIBLOC® 1.RST8 NH-fuse switch disconnecter triple pole design for bus bar installation (M01123a)

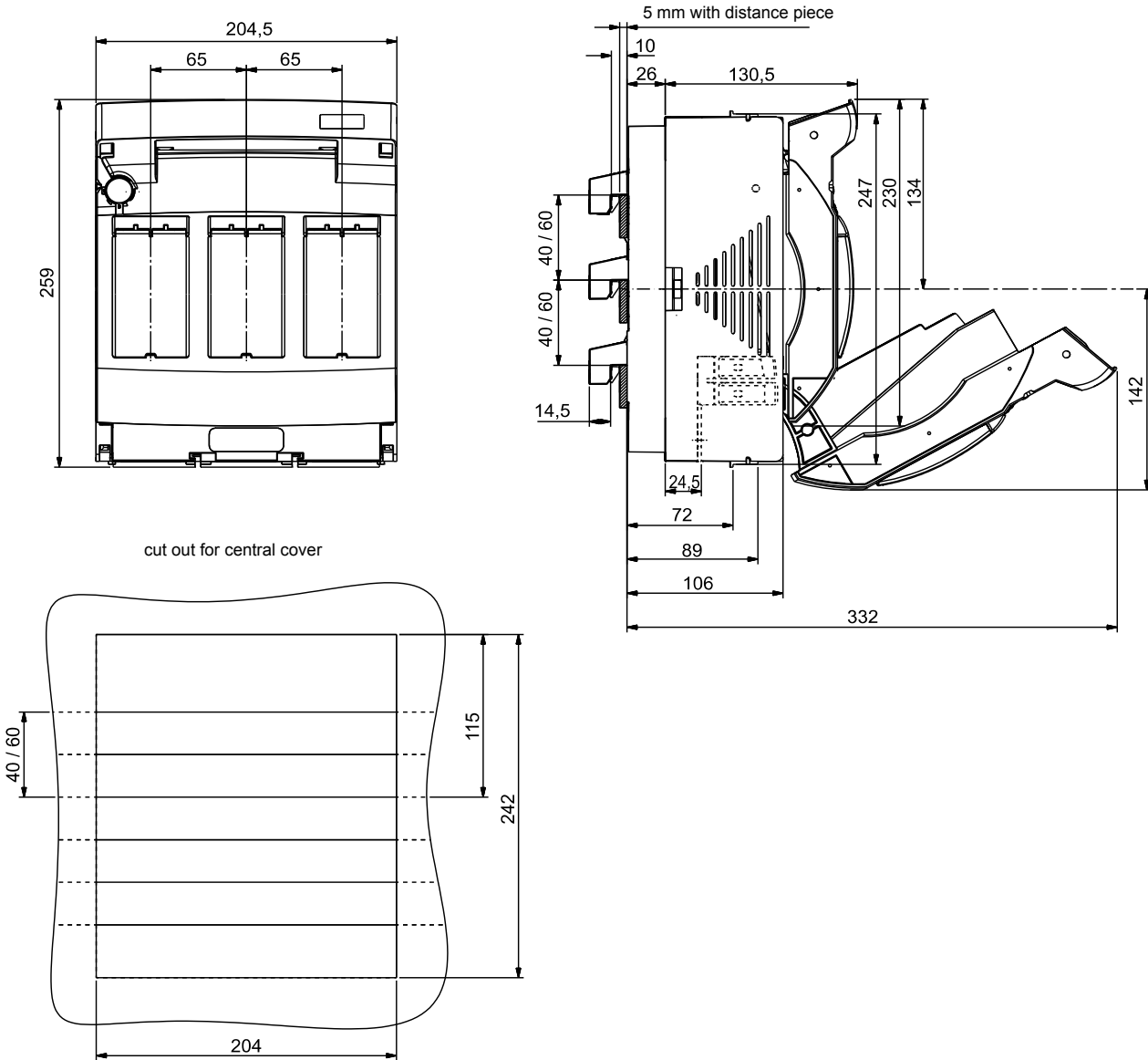


Dimensions in mm

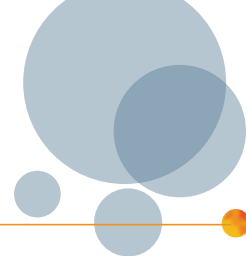


Dimensions

MULTIBLOC® 2.RST8 NH-fuse switch disconnecter triple pole design for bus bar installation (M01132a)



Dimensions in mm



Accessories



1.000.126 1.003.431



1.002.874



1.000.127



1.000.128



1.000.353 1.002.351



1.000.863 1.002.352

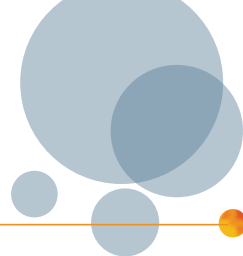


1.002.870

Cover shields

Catalog number	Reference number	Design	Weight kg ¹⁾	Package
1.000.126	Y229285	cover shield for installation in distribution units size (width x height): 123 x 190 mm for one 00.ST9/00.RST9	0.02	1 piece
1.003.431	N1022960	cover shield for installation in distribution units size (width x height): 123 x 210 mm for one 00.ST9/00.RST9	-	1 piece
1.002.874	S1022964	cover shield for installation in distribution units size (width x height): 231 x 210 mm for two 00.ST9/00.RST9	0.05	1 piece
1.000.127	Z229286	cover shield for installation in distribution units size (width x height): 231 x 190 mm for two 00.ST9/00.RST9	0.05	1 piece
1.000.128	A229287	cover shield for installation in distribution units size (width x height): 339 x 190 mm for three 00.ST9/00.RST9	0.07	1 piece
1.000.353	Z229884	cover shield for installation in distribution units size (width x height): 210 x 260 mm for one 1.ST8/1.RST8 triple pole	0.07	1 piece
1.002.351	X1022968	cover shield for installation in distribution units size (width x height): 230 x 283 mm for one 1.ST8/1.RST8 triple pole	0.09	1 piece
1.000.863	V1002174	cover shield for installation in distribution units size (width x height): 230 x 300 mm for one 2.ST8/2.RST8 triple pole	0.13	1 piece
1.002.352	Y1022969	cover shield for installation in distribution units size (width x height): 234 x 310 mm for one 2.ST8/2.RST8 triple pole	0.11	1 piece
1.002.870	R1022963	cover shield for installation in distribution units size (width x height) 231 x 210 mm for one 00.ST9/00.RST9 + lateral spare way cover right side	0.09	1 piece

1) weight in kg per piece or set including package



Accessories

Cover/shrouds for cable termination

Catalog number	Reference number	Design	Weight kg ¹⁾	Package
1.000.148	W229283	cover for cable terminal connection for 00.ST9 triple pole, 1 set = 2 pieces	0.04	1 set
1.000.861	N1002168	cover for cable terminal connection for 2.ST8 triple pole, 1 set = 2 pieces	0.22	1 set
1.002.644	N1022983	cover for cable terminal connection, 1 set = 2 pieces	0.07	1 set
1.003.325	F1023114	bus bar touch protection for 00.RST9	0.02	1 piece
1.003.347	H1023116	bus bar touch protection for 2.RST8	0.08	1 piece
1.003.329	G1023115	bus bar touch protection for 1.RST8	0.06	1 piece



1.000.148



1.000.861



1.002.644



1.003.325



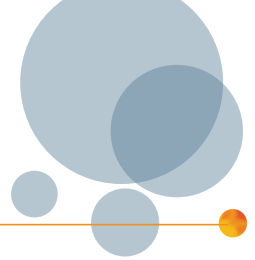
1.003.347



1.003.329



1) weight in kg per piece or set including package



Accessories



1.002.643

1.000.852



1.000.157

1.000.155

1.000.150

Indication facilities

Catalog number	Reference number	Design	Weight kg ¹⁾	Package
1.002.643	T1022988	indicator for switch door position micro switch 1 change-over contact 5 A, 250 V for MULTIBLOC® 000.RST8 1 set = 3 pieces	0.01	1 piece
1.000.852	Q1002285	indicator for switch door position micro switch, 1 change-over contact 5 A, 250 V	0.00	1 piece
1.000.157	S1022987	indicator for switch door position micro switch 1 "a" contact/ 1 "b" contact, 5 A, 250 V for MULTIBLOC® 00.RST9 for 40 mm bus bar system	0.01	1 piece

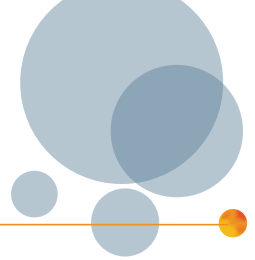
Locking and sealing devices/cover sealing device

Catalog number	Reference number	Design	Weight kg ¹⁾	Package
1.000.155	L229297	cover sealing device-installation set for 00.ST8 1-, 2-, 4-pole and 1.ST8/RST8	0.01	1 piece

Locking and sealing devices/locking device for window

Catalog number	Reference number	Design	Weight kg ¹⁾	Package
1.000.150	K229296	locking device for window for 00.ST8 1-, 2-, 4-pole and 1./2.ST8/RST8 1 set = 3 pieces	0.01	1 set

1) weight in kg per piece or set including package



Accessories

Varieties of cable termination

Catalog number	Reference number	Design	Weight kg ¹⁾	Package
00SZS	M229298	M8 terminal screw for switch gear size 00 1 set = 3 pieces	0.03	1 set
00SZESK	E214594	clamp strap Cu 4–70 mm ² for switch gear size 00 1 set = 3 pieces	0.04	1 set
00SZA70	R211523	Al/Cu clamp 1,5–70 mm ² for switch gear size 00 1 set = 3 pieces	0.08	1 set
1.003.571	V1033684	Al/Cu clamp 50–95 mm ² round stranded for switch gear size 00 1 set = 3 pieces	0.10	1 set
1.003.433	L1022958	triple clamp per pole 1.5 up to 16 mm ² 1 set = 3 pieces	-	1 piece
00SZSV6	K1022957	V-shaped lug size 00, M8, for V-terminal clamp size 00 for switch gear size 00 with screw terminal supplementary set for V-terminal with V-terminal clamps 1 set = 3 pieces	0.13	1 set
1.000.420	E229889	clamp strap 70–150 mm ² for 1.ST8 1- 4-pole + 1.RST8, 1 set = 3 pieces	0.10	1 set
1.001.830	J1023117	V-shaped lug size 1, M8, for V-terminal clamp size 1 for 1.ST8 1- to 4-pole + 1.RST8, supplementary set for V-terminal with use of V-clamps 1 set = 3 pieces	0.09	1 set
1.001.237	B1002180	clamp strap size 2 120–240 mm ² , 1 set = 3 pieces	0.25	1 set
13SZAV6	K1023118	V-terminal size 1,2,3; M12, for V-terminal clamps size 1,2,3 for MULTIBLOC® size 2 supplementary set for V-terminal with use of V-clamps 1 set = 3 pieces	0.27	1 set
13SZAD6	A1022971	M12 terminal lugs for M12 double terminal for MULTIBLOC® size 2 and 3 1 set = 3 pieces	0.26	1 set



00SZS

00SZESK



00SZA70

1.003.571



1.003.433

00SZSV6



1.000.420



1.001.830



1.001.237



13SZAV6

13SZAD6

1) weight in kg per piece or set including package