

MULTIBLOC® 2.ST8

Size 2, 400A, 690VAC, Design for Bottom Fitting, 3-,4-pole

IEC FUSE SWITCH DISCONNECTORS

NH FUSE SWITCH DISCONNECTOR



The production programme of MULTIBLOC® series 2.ST8 comprises NH fuse switch disconnectors for 400A.

They are designed for bottom fitting/panel installation and are available in triple pole and quadruple pole units.

For installation of MULTIBLOC® NH fuse switch disconnectors in distribution units with central cover, respective covers are used to obtain a uniform profile in height and length.

MULTIBLOC® size 2 are designed for NH fuse-links in accordance with IEC/EN 60269-2, VDE 0636-2, size 2, 400A.

MULTIBLOC® offers the user the possibility of fast and easy installation as well as a high degree of security during installation and maintenance.

TECHNICAL DATA OVERVIEW

Voltage AC	690 VAC
Amper (A)	400 A
Size per Standard	2
SCCR	Ue = AC 400 V; Ie = 400 A 80kA Ue = AC 500 V; Ie = 400 A 80kA Ue = AC 690 V; Ie = 315 A 80kA (3-pole) Ue = AC 690 V; Ie = 315 A 50kA (4-pole)
Mounting	bottom fitting/panel
Switchability	3-,4-pole switching

FEATURES & BENEFITS

- Touch protection IP 20 - when fuse link is in test mode IP rating is maintained
- Parking position of switch operating cover even with fuse-links inserted
- Electronic or electro-mechanic fuse monitoring - optional
- Modular system of cover - cover for cable termination area can be extended as required
- Varieties of cable termination: screw, bolt, clamp strap, extendable for V-terminal - optional
- Indicating switch for switch door position - optional
- Installation on to 100mm bus bar system with adapter
- Safe on load connection/disconnection in accordance with IEC 60947-3

APPLICATIONS

- Panel boards for industrial use
- Feeder pillars for industrial use
- Meter distribution units
- Measuring transformer cabinets
- Transmitting stations for telecommunications

STANDARDS

- IEC/EN 60 947-3
For NH-fuse links size 2 in accordance with IEC/EN 60 269-2, VDE 0636-2



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PRODUCT RANGE



1.000.504



1.002.712



1.000.832

MULTIBLOC® 2.ST8 size 2 400A, 690VAC bottom fitting, triple pole

Catalog number	Item number	Poles	Cable termination components	Design	Package	Weight
1.000.504	W1002129	3	6 M10 terminal screws	-	1 piece	3.5 kg
1.001.240	F1023068	3	3 clamp straps 120–240 mm ² 3 M10 terminal screws	-	1 piece	3.5 kg
1.002.563	G1023069	3	6 clamp straps 120–240 mm ²	-	1 piece	3.5 kg
1.002.712	H1023070	3	6 M10 terminal screws	with electronic fuse monitoring ESÜ installed (rated voltage=525VAC)	1 piece	3.6 kg
1.000.832	E1023067	3	6 M10 terminal screws	with electro-mechanic fuse monitoring MZS installed (galvanic isolation)	1 piece	4.25 kg



1.001.688



1.002.379

MULTIBLOC® 2.ST8 size 2 400A, 690VAC bottom fitting, quadruple pole

Catalog number	Item number	Poles	Cable termination components	Design	Package	Weight
1.001.688	J1023071	4	8 M10 terminal screws	-	1 piece	5.04 kg
1.002.379	Y1002131	4	8 M10 terminal screws	with ready fitted special solid link as neutral conductor in pole 4 for leading and lagging switching	1 piece	5.26 kg

MERSEN reserves the right to change, update or correct, without notice, any information contained in this datasheet.

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TECHNICAL DATA IN ACCORDANCE WITH EN / IEC 60947

	2.ST8 triple pole	2.ST8 quadruple pole
Number of poles/phases	3	4
Size	2	2
Conventional free air thermal current with NH-fuse links I_{th}	400 A	400 A
Max. power dissipation of fuse links P_n	34 W	34 W
Conventional free air thermal current with solid links I_{th}	630 A	630 A
Max. power dissipation of solid links P_n	9 W	9 W
Utilization category to IEC/EN 60947-3 $U_e = AC\ 400\ V; I_e = 400\ A$ $U_e = AC\ 500\ V; I_e = 400\ A$ $U_e = AC\ 690\ V; I_e = 315\ A$ $U_e = DC\ 440\ V; I_e = 400\ A$	AC 23 B AC 22 B AC 21 B DC 21 B	AC 23 B AC 22 B AC 21 B -
Rated operational voltage U_e	690 V	690 V
Rated insulation voltage U_i	1000 V	1000 V
Rated impulse withstand voltage U_{imp}	12 kV	12 kV
Rated frequency	50 ... 60 Hz	50 ... 60 Hz
Degree of protection	IP 20	IP 20
Degree of pollution	3	3
Rated duty	uninterrupted duty	uninterrupted duty
Rated conditional short-circuit current with fuse links $U_e = AC\ 400\ V; I_e = 400\ A$ $U_e = AC\ 500\ V; I_e = 400\ A$ $U_e = AC\ 690\ V; I_e = 315\ A$	80 kA 80 kA 80 kA	80 kA 80 kA 50 kA
Rated short circuit making capacity with solid links I_{cm}	10.6 kA _{sw}	10.6 kA _{sw}
Rated short-time withstand current I_{cw}	13 kA / 1 s	13 kA / 1 s
Power dissipation by I_{th} without NH-fuse links	27 W	27 W
Power dissipation by I_{th} 630A without solid links	67 W	67 W
Installation mode	bottom fitting	bottom fitting
Cable terminal connection		
Standard cable terminal	M10	M10
for cable lugs Cu max.	2 x 185 mm ²	2 x 185 mm ²
for cable lugs Al max.	2 x 240 mm ²	2 x 240 mm ²
for copper bars with max. dimensions	35 x 10 mm	35 x 10 mm

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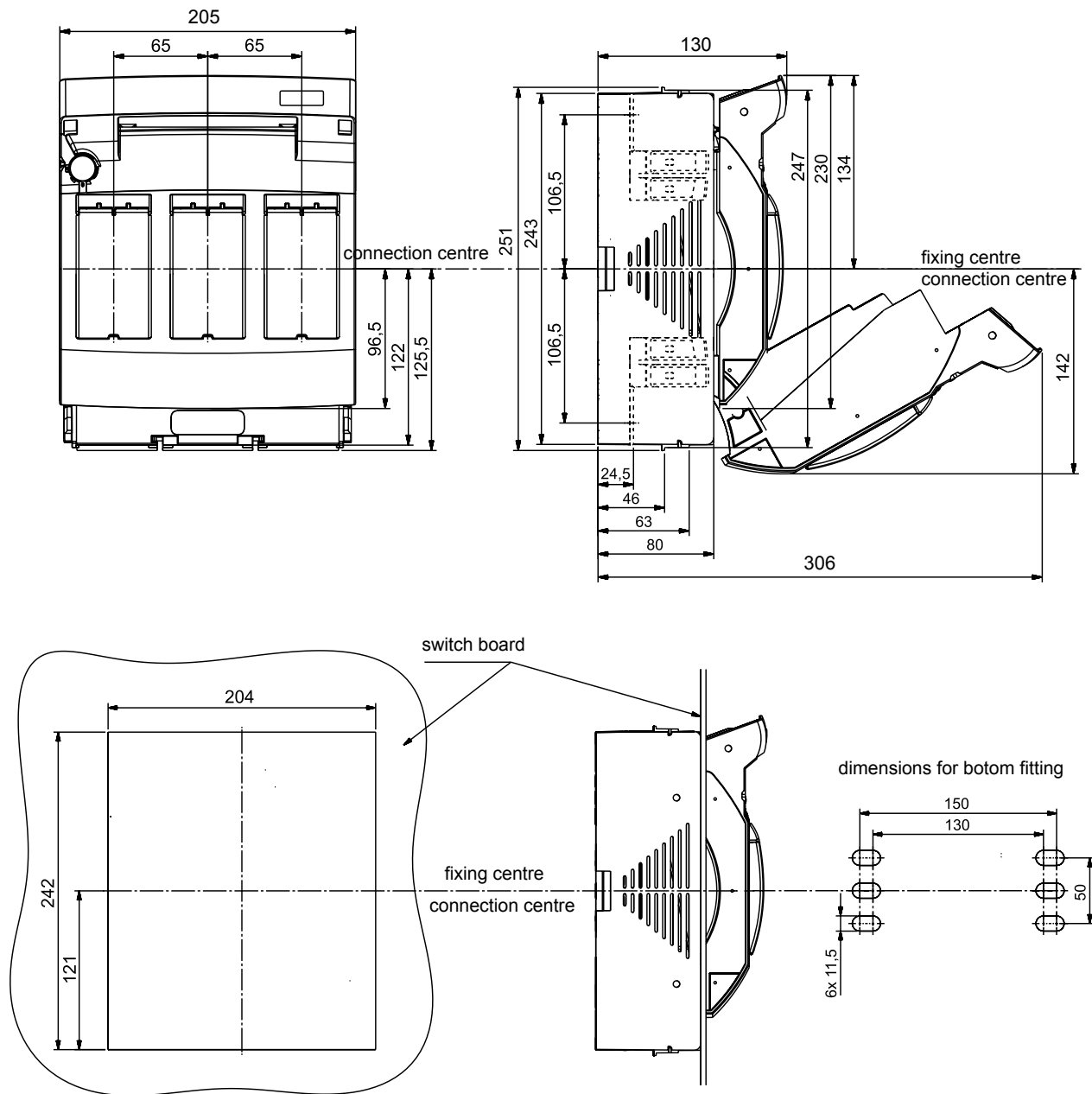
MULTIBLOC® 2.ST8

Size 2, 400A, 690VAC, Design for Bottom Fitting, 3-,4-pole

DIMENSIONS

MULTIBLOC® 2.ST8 NH-fuse switch disconnecter
triple pole design for bottom fitting

(M01131)



Dimensions in mm

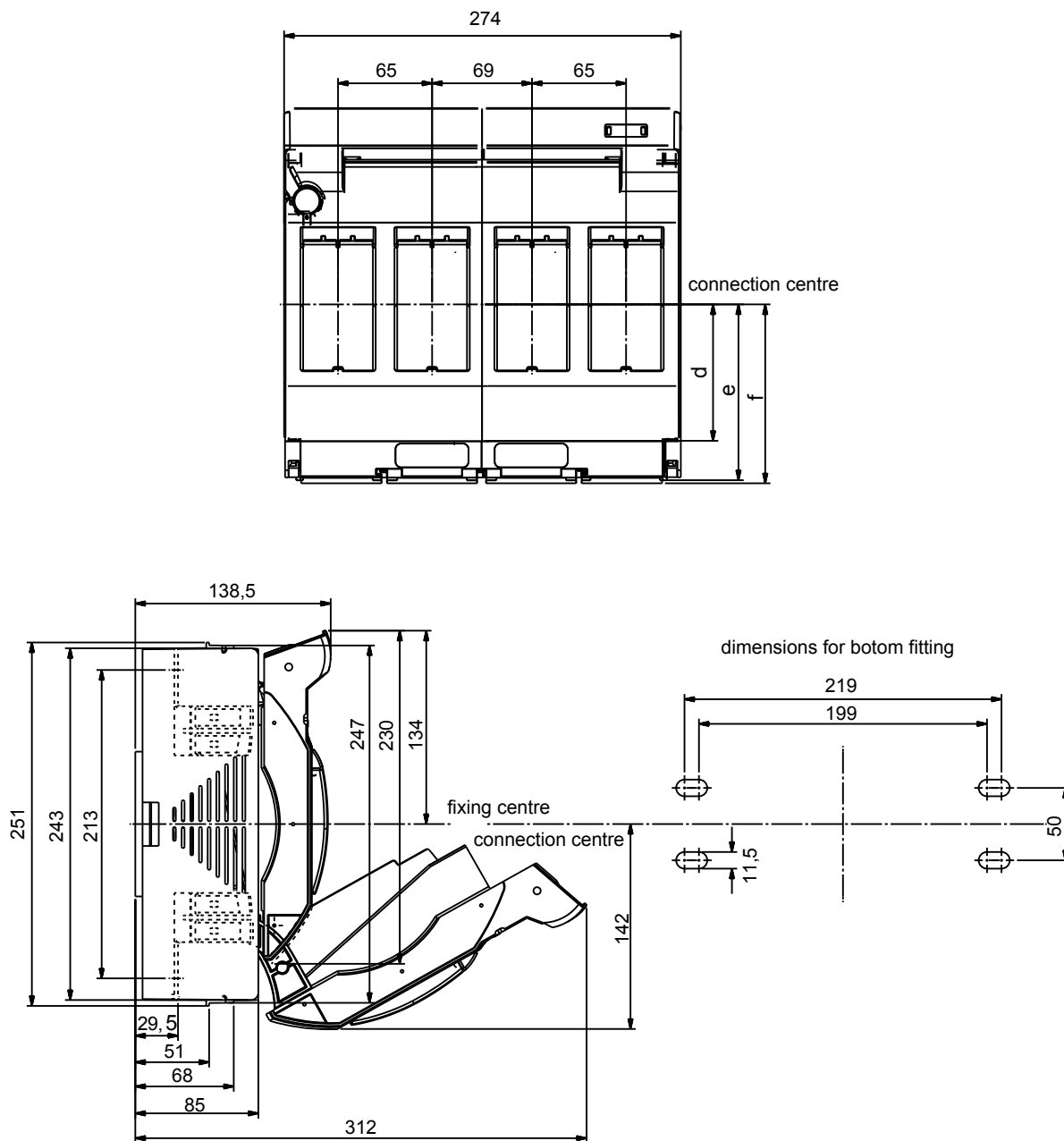
MULTIBLOC® 2.ST8

Size 2, 400A, 690VAC, Design for Bottom Fitting, 3-,4-pole

DIMENSIONS

MULTIBLOC® 2.ST8 NH-fuse switch disconnecter
quadruple pole design for bottom fitting

(M01157-2)



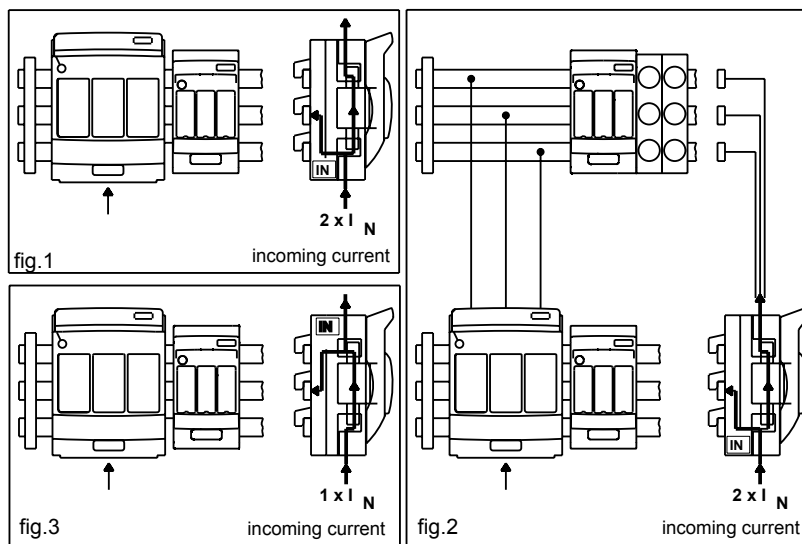
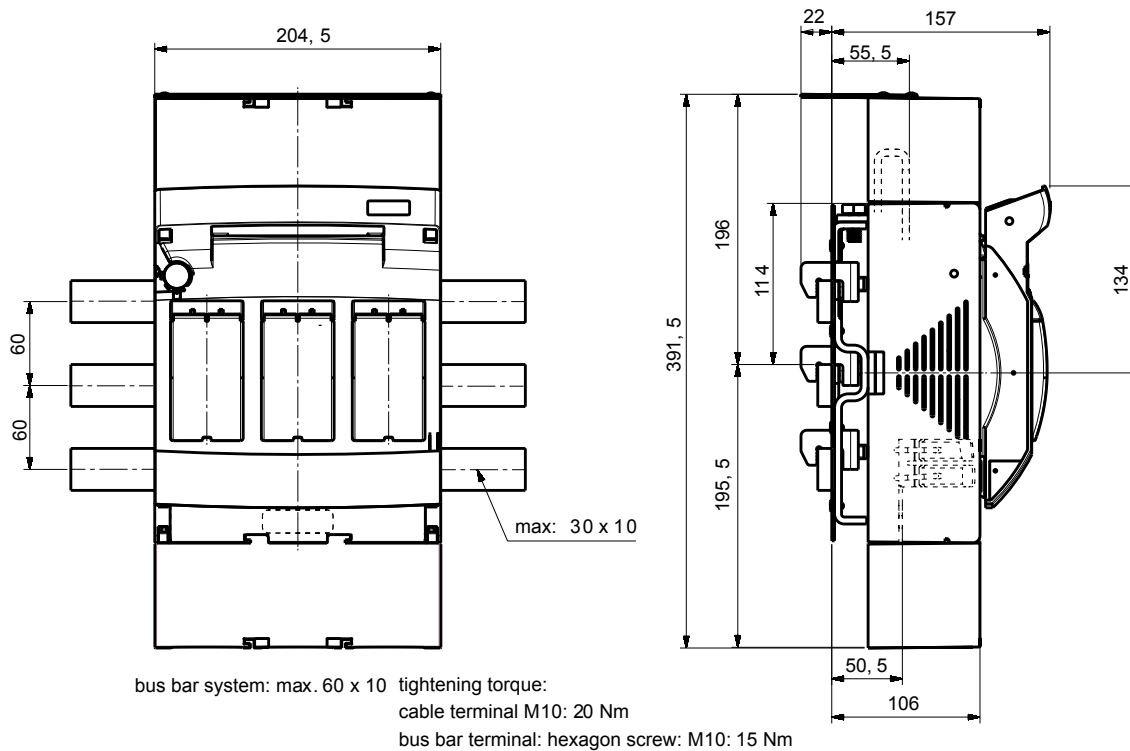
Dimensions in mm

MULTIBLOC® 2.ST8

Size 2, 400A, 690VAC, Design for Bottom Fitting, 3-,4-pole

DIMENSIONS

MULTIBLOC® main incomer size 2 (M01167-2)



Dimensions in mm

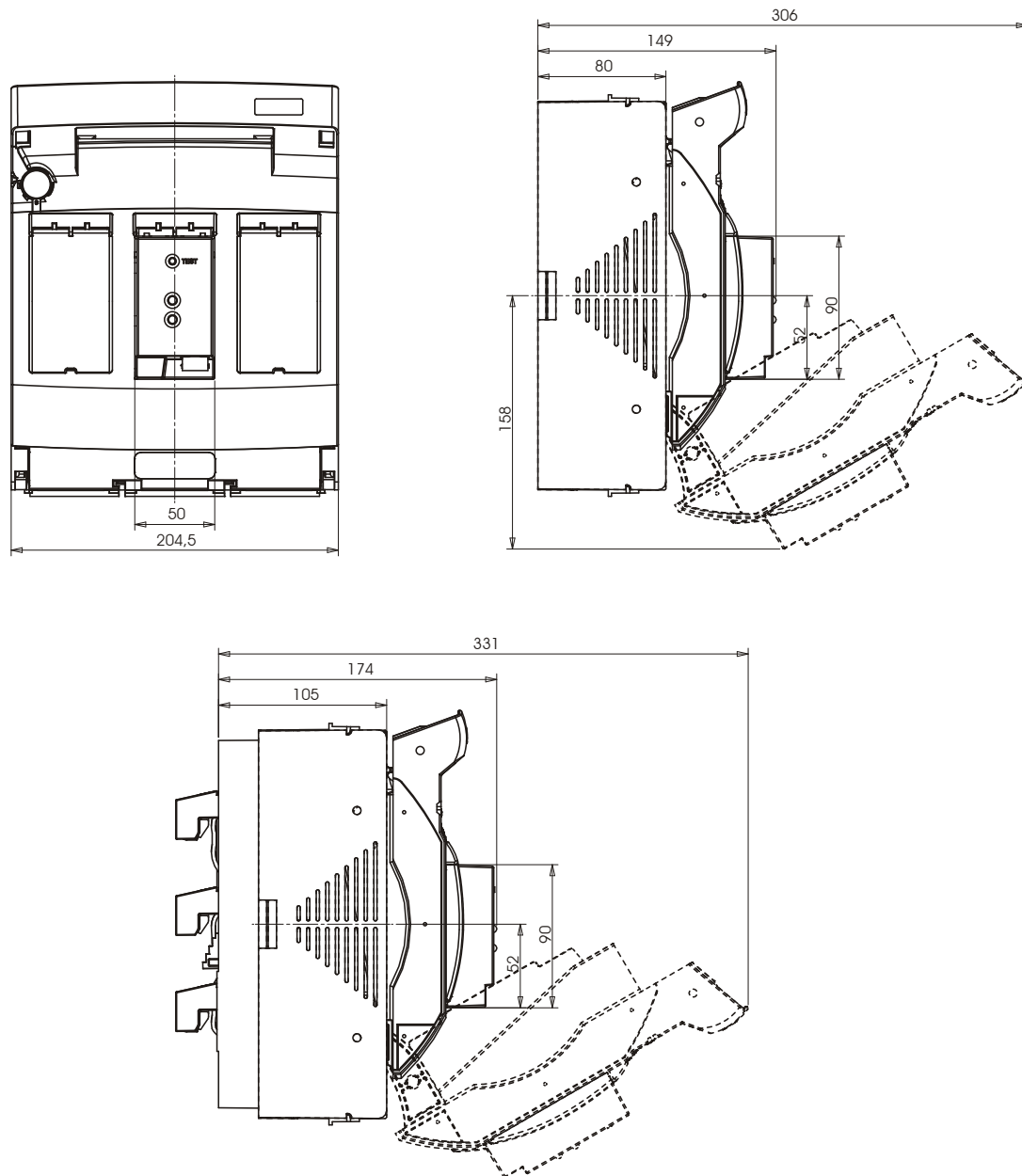
MULTIBLOC® 2.ST8

Size 2, 400A, 690VAC, Design for Bottom Fitting, 3-,4-pole

DIMENSIONS

MULTIBLOC® 2.ST8 and 2.RST8

triple pole with electronic fuse monitoring ESÜ (M01174-2)



Dimensions in mm

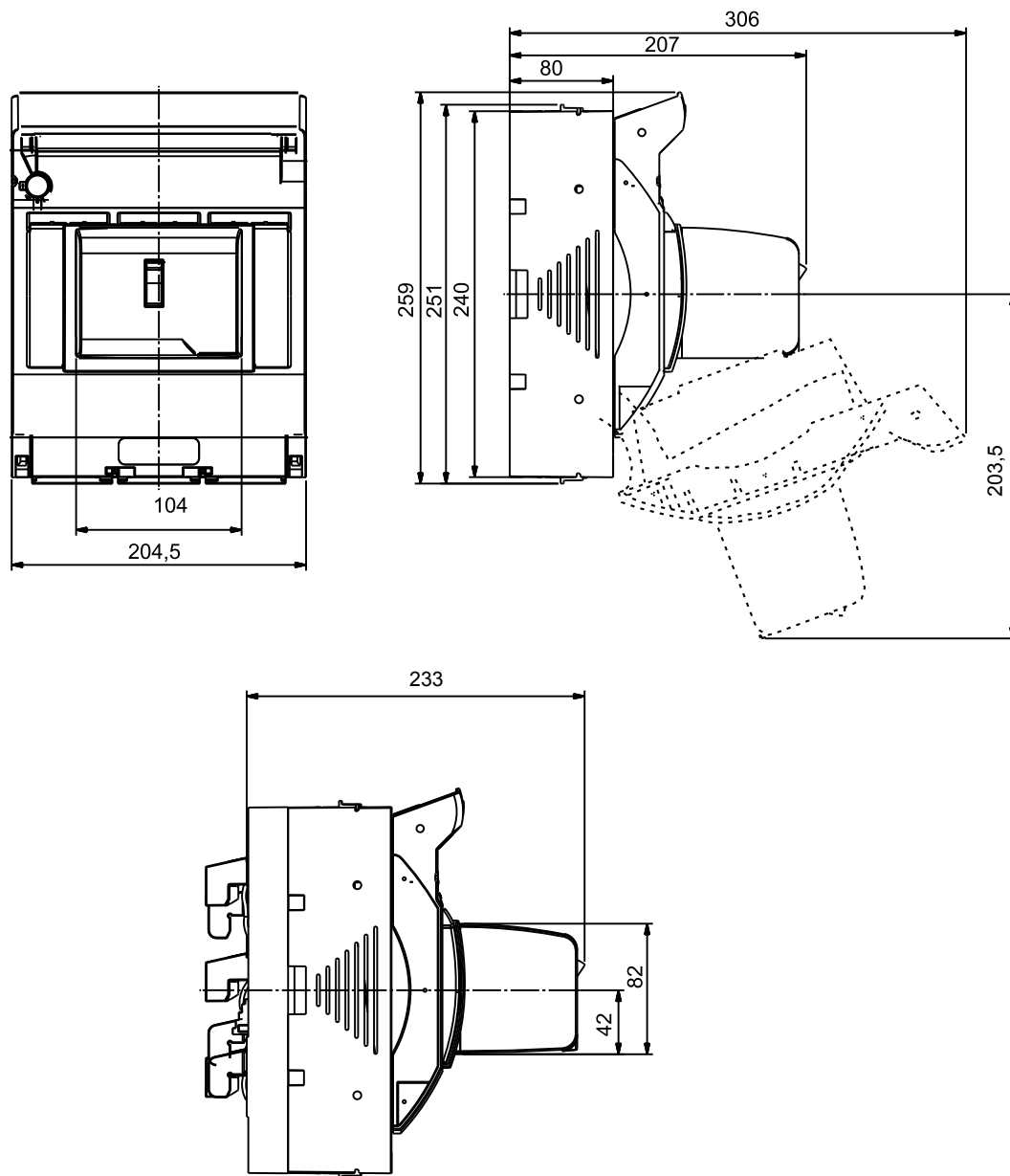
MULTIBLOC® 2.ST8

Size 2, 400A, 690VAC, Design for Bottom Fitting, 3-,4-pole

DIMENSIONS

MULTIBLOC® 2.ST8 and 2.RST8

triple pole with electro-mechanic fuse monitoring MZS (M01135-2)

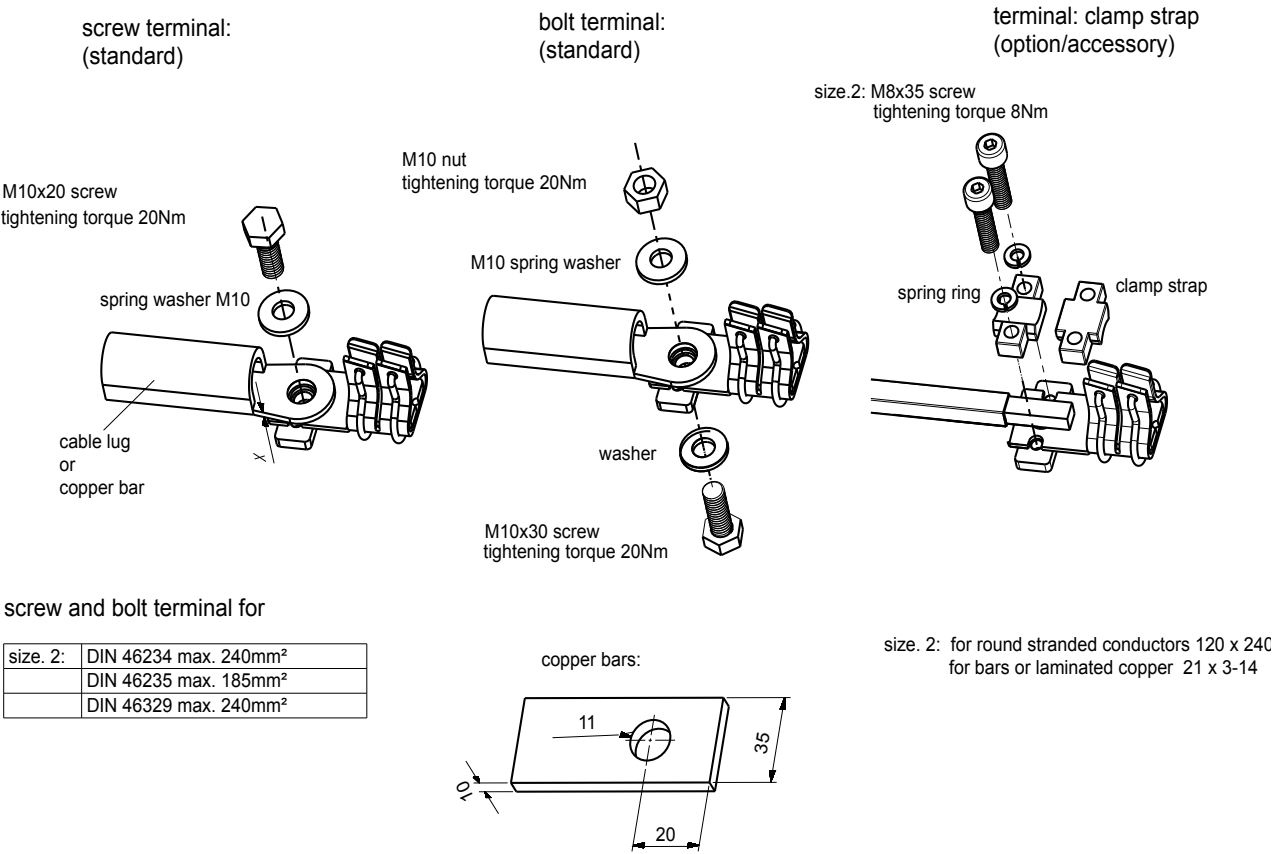


Dimensions in mm

Size 2, 400A, 690VAC, Design for Bottom Fitting, 3-,4-pole

DIMENSIONS

Cable termination size 2 (MA 98e-2)



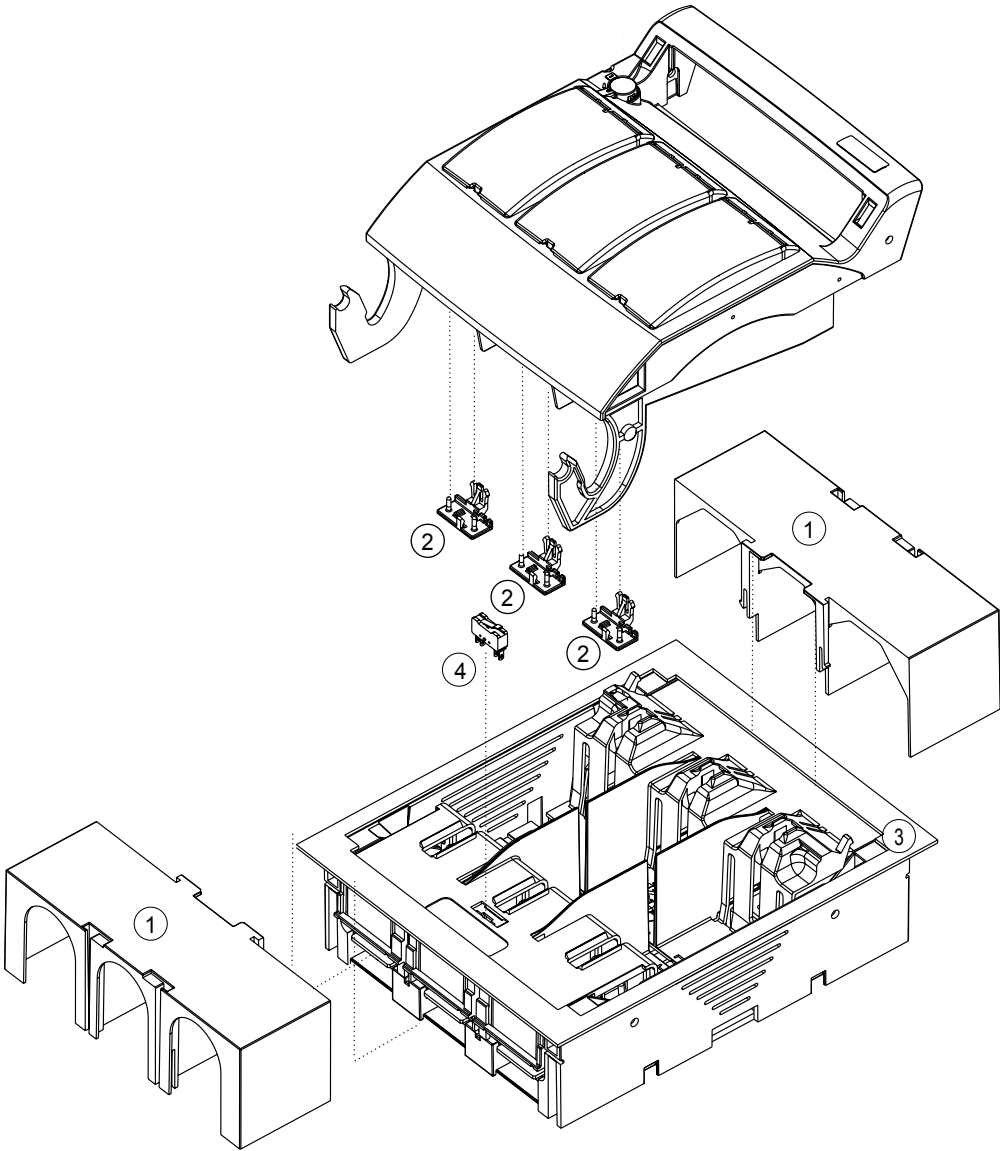
Dimensions in mm

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Size 2, 400A, 690VAC, Design for Bottom Fitting, 3-,4-pole

EXPLODED SKETCH

MULTIBLOC® 2.ST8 NH- fuse switch disconnector
triple pole design for bottom fitting (E 1.000.595)



no.	articlenumber	short Description
1	1.000.861	Cover for cable termination,set = 2 pcs.
2	1.000.150	Locking device f. windows,1 Set=3 pieces
3	1.000.863	Cover shield 230 x 300 mm
4	1.000.852	indicator for switch door position

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ACCESSORIES

Cover shields

Catalog number	Item number	Design	Package	Weight
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	1 piece	0.10 kg
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	1 piece	0.11 kg



1.003.255



1.002.593

Cover/shrouds for cable termination

Catalog number	Item number	Design	Package	Weight
1.003.255	K1022980	cover for cable terminal connection for 2.ST8 quadruple pole	1 piece	0.16 kg
1.000.861	N1002168	cover for cable terminal connection for 2.ST8 triple pole, 1 set = 2 pieces	1 set	0.31 kg
1.002.593	J1023439	bus bar touch protection for bus bar adapter size 2, 1 set = 2 pieces	1 set	0.26 kg



1.002.502

Adapter für installation on to bus bars with clamp terminal

Catalog number	Item number	Design	Package	Weight
1.002.502	C1023111	bus bar adapter size 2 with clamp terminal for MULTIBLOC® 2.ST8 triple pole for bus bar system 100 mm	1 piece	1.25 kg



1.000.852

Indication facilities

Catalog number	Item number	Design	Package	Weight
1.000.852	Q1002285	indicator for switch door position micro switch, 1 change-over contact 5 A, 250 V	1 piece	90 g

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ACCESSORIES



1.000.150

Locking and sealing devices/locking device for window

Catalog number	Item number	Design	Package	Weight
1.000.150	K229296	locking device for window for 00.ST8 1-, 2-, 4-pole and 1./2.ST8/RST8 1 set = 3 pieces	1 set	20 g

Varieties of cable termination

Catalog number	Item number	Design	Package	Weight
1.001.237	B1002180	clamp strap size 2 120–240 mm², 1 set = 3 pieces	1 set	0.26 kg
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	1 set	0.27 kg
13SZAD6	A1022971	M12 terminal lugs for M12 double terminal for MULTIBLOC® size 2 and 3 1 set = 3 pieces	1 set	0.26 kg