

AC MCCB Switch Disconnectors Ex9MSD

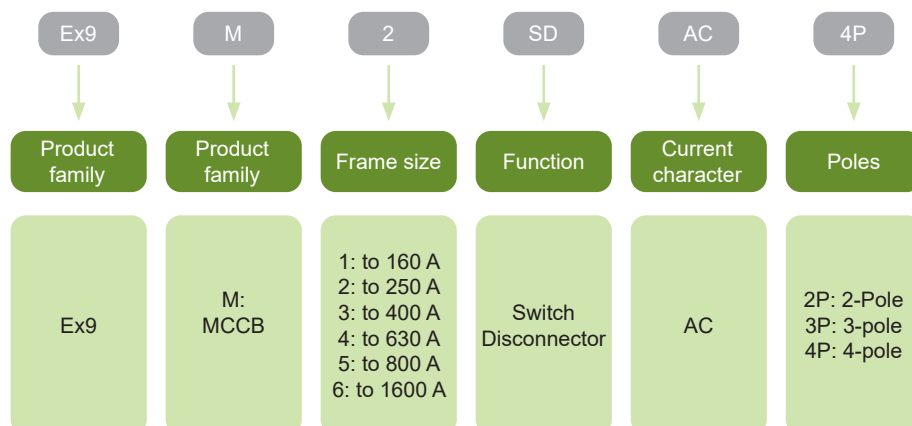


- AC MCCB Switch Disconnectors
- Frame sizes M1-M6
- Rated operating current up to 1 600 A
- Tested according to EN 60947-3
- AC current character
- 2, 3 and 4-pole versions
- Rated operating voltage U_e up to 690 V AC

AC versions of MCCB based Switch Disconnectors Ex9MSD are used as a main switch in many various circuits. They are intended primarily for applications in power distribution. Testing according to IEC / EN 60947-3 standards ensures functions and reliability for wide variety of applications.

These switch disconnectors follows the same design pattern than their circuit breaker equivalents. Therefore there is possibility to use the fully compatible range of external and internal accessories including extended rotary handles, auxiliary contacts, tripping units and many others.

Type Key

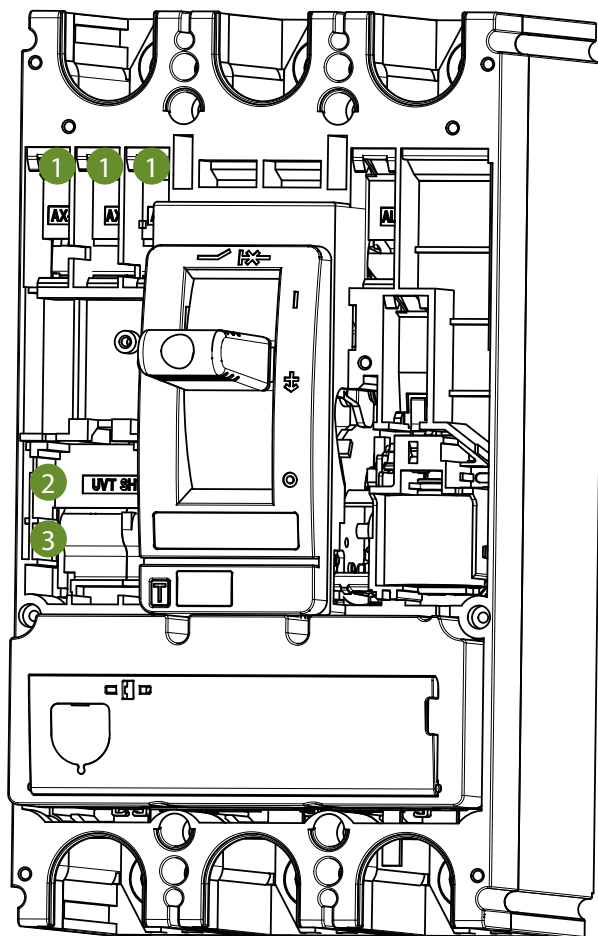


Certification marks



AC MCCB Switch Disconnectors Ex9MSD

Internal accessories Ex9M1-M5 AC SD



1

Auxiliary contact
AX21M

2

Shunt trip release
SHT2i
1 unit or UVT2i

3

Undervoltage release
UVT2i
1 unit or SHT2i

Auxiliary contact AX21M

Shunt trip releases SHT2i

Undervoltage releases UVT2i

1 Pole version does not have internal accessories

2 Pole version can be install with 1 AX and 1 AL

AC MCCB Switch Disconnectors Ex9MSD

External accessories Ex9M1-M5 AC SD



Phase barriers
PB2i



Terminal cover set, short
TCV2i



Terminal cover set, long
TCE2i



Remote operator
MOD2i



Direct rotary handle
RHD2i



Extended rotary handle
ERH2i

Phase barriers PHS2i

Terminal cover, short TCV2i

Terminal cover, long TCE2i

Remote operators MOD2i

Direct rotary handles RHD2i

Extended rotary handles ERH2i

AC MCCB Switch Disconnectors Ex9MSD

External accessories Ex9M1-M5 AC SD



Tunnel terminals
MC2i W



Mounting depth spacers
WG i



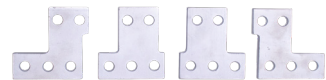
Box terminals
MC2i



Screw terminals
MCS2i



Din rail adapter
DRA2i



Front plate connection
JP 2i



Rear connection plate
RCP 2i



Off position toggle key
lock
KLK 2i



Mechanical interlock
MIT 2i

Tunnel terminals MC2i W

Mounting depth spacers WG i

Box terminals MC2i

Screw terminals MCS2i

Din rail DRA2i

Front plate connection JP 2i

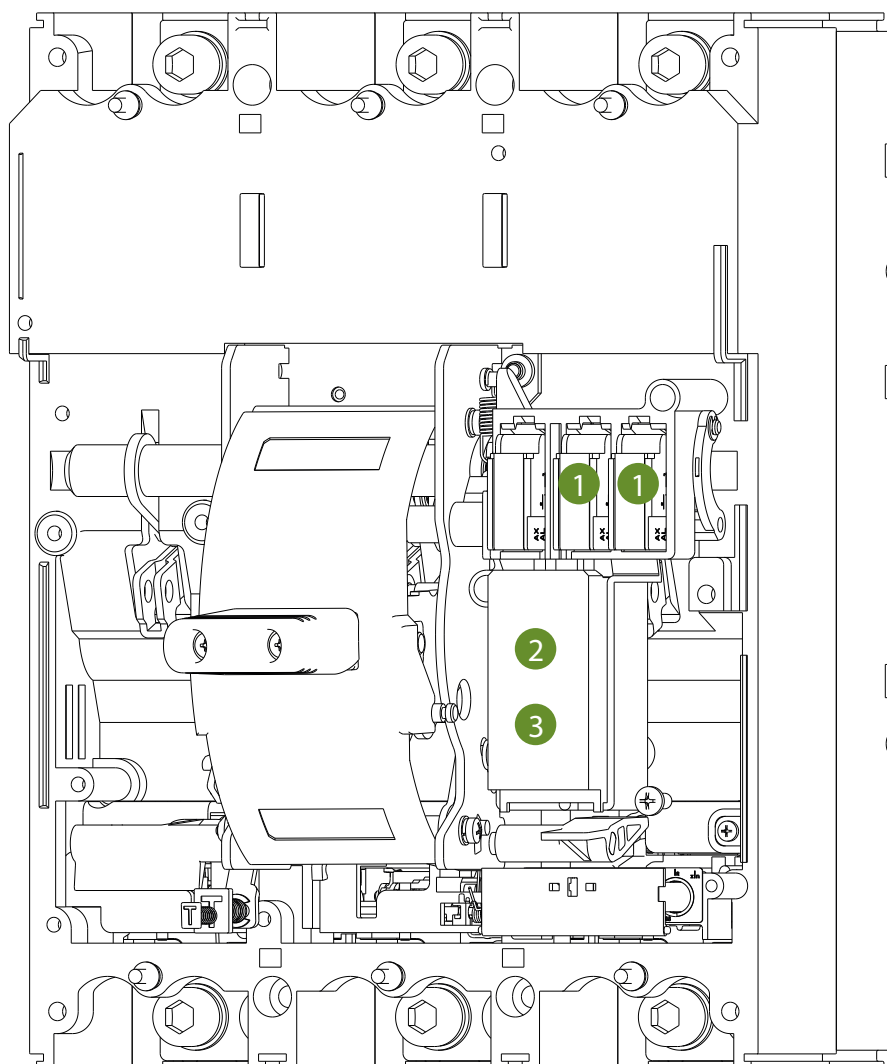
Rear connection plate RCP 2i

Off position toggle key lock KLK 2i

Mechanical interlock MIT 2i

AC MCCB Switch Disconnectors Ex9M6SD

Internal accessories Ex9M6 AC SD



1

Auxiliary contact
AX21M

2

Shunt trip release
SHT26
1 unit or UVT2*i*

3

Undervoltage release
UVT26
1 unit or SHT2*i*

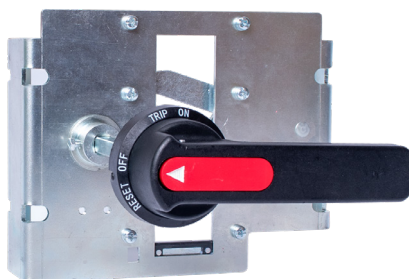
Auxiliary contact AX21M

Shunt trip releases SHT26

Undervoltage releases UVT26

AC MCCB Switch Disconnectors Ex9M6SD

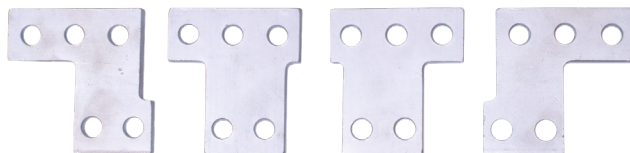
External accessories Ex9M6 AC SD



Extended rotatory
handle
ERH26



Extended handle
LHD26



Front connection
plate
JP26

Extended rotary handles ERH26

Extended handles LHD26

Front connection plate JP26

AC MCCB Switch Disconnectors Ex9MSD

2-pole versions

- Mounting screws as well as phase barriers in the scope of delivery



Rated current i_n	Frame size	Article No.	Type	Packing
160 A	M1	114205	Ex9M1SD AC 2P	1/8
250 A	M2	114206	Ex9M2SD AC 2P	1/8

3-pole versions

- Mounting screws as well as phase barriers in the scope of delivery



Rated current i_n	Frame size	Article No.	Type	Packing
160 A	M1	112797	Ex9M1SD AC 3P	1/8
250 A	M2	112801	Ex9M2SD AC 3P	1/8
400 A	M3	112805	Ex9M3SD AC 3P	1/2
630 A	M4	112809	Ex9M4SD AC 3P	1
800 A	M5	112813	Ex9M5SD AC 3P	1
800 A	M6	112823	Ex9M6SD AC800 3P	1
1 000 A	M6	112817	Ex9M6SD AC1000 3P	1
1 250 A	M6	112819	Ex9M6SD AC1250 3P	1
1 600 A	M6	112821	Ex9M6SD AC1600 3P	1

4-pole versions

- Mounting screws as well as phase barriers in the scope of delivery



Rated current i_n	Frame size	Article No.	Type	Packing
160 A	M1	112798	Ex9M1SD AC 4P	1/8
250 A	M2	112802	Ex9M2SD AC 4P	1/8
400 A	M3	112806	Ex9M3SD AC 4P	1/2
630 A	M4	112810	Ex9M4SD AC 4P	1
800 A	M5	112814	Ex9M5SD AC 4P	1
800 A	M6	112824	Ex9M6SD AC800 4P	1
1 000 A	M6	112818	Ex9M6SD AC1000 4P	1
1 250 A	M6	112820	Ex9M6SD AC1250 4P	1
1 600 A	M6	112822	Ex9M6SD AC1600 4P	1

Technical Data Ex9M1SD AC

AC Moulded Case Switch Disconnectors up to 160 A

General parameters

Suitable for commercial as well as industrial applications

Internal accessories

Auxiliary contact unit	AX21M	112071
Shunt trip releases	SHT21	101397 — 101405
Undervoltage releases	UVT21	101406 — 101407

2 Pole version cant be install with 2 AX

Max. number of installed internal accessories is 2 pcs of AX21M and 1 pc of a release (SHT21 or UVT21)

External accessories

Direct rotary handle	RHD21	101410
Extended rotary handle	ERH21	101409
Remote motor operators	MOD21	101411, 101412, 112079, 101425
Terminal cover, short	TCV21 3P, 4P	101439, 102372
Terminal cover, long	TCE21 3P, 4P	101440, 102373
Phase barrier	PHS21	112110
Box terminals	MC21	103705
Screw Terminal	MCS21	107873
Tunnel terminal	MC21 W	103707
DIN-rail adapter	DRA21	106319
Off position toggle key lock	KLK21	108852
Front plate connection	JP21	108859, 108865
Rear connection plate	RCP21	108871, 108875
Mechanical interlock	MIT21	108855
Mounting depth spacers	WG10, WG13	106131, 106132

Mounting screws, box terminals as well as phase barriers in the scope of delivery

Technical Data Ex9M1 AC SD

AC Moulded Case Switch Disconnectors up to 160 A

Electrical parameters

Tested according to	IEC/EN 60947-3
Rated op. voltage U_e	690 V AC
Rated insulation voltage U_i	1 000 V
Rated impulse withstand voltage U_{imp}	8 kV
Rated frequency	50/60 Hz
Rated short-time making capacity I_{cm}	3.2 kA
Rated short-time withstand current I_{cw}	2 kA / 1 s 2 kA / 3 s
Rated current	160 A
Utilization category	AC-22A, AC-23A
Mechanical service life	15 000 operation cycles
Electrical service life	2 000 operation cycles / 690 V AC
Total disconnection time at short circuit	< 2 ms
Line voltage connection	arbitrary above or below

Power dissipation characteristics

I_n	160 A
Pole resistance (mΩ)	0.8
Pole power dissipation (W)	20.5

Mechanical parameters

Device width 2P / 3P / 4P	62 mm / 90 mm / 120 mm
Device height	140 mm
Device depth	81.6 mm
Mounting	onto panel
Degree of protection	IP40, IP20 terminals
Terminals	box
Terminal capacity	4 — 95 mm ²
Fastening torque of terminals	8 Nm
Ambient temperature	-40 — +70 °C
Relative humidity	≤ 50 % at 40 °C, ≤ 90 % monthly average
Pollution degree	3
Weight 2P / 3P / 4P	0.9 kg / 1.05 kg / 1.55 kg
Mounting position	vertical, can be rotated by 90° in each axis

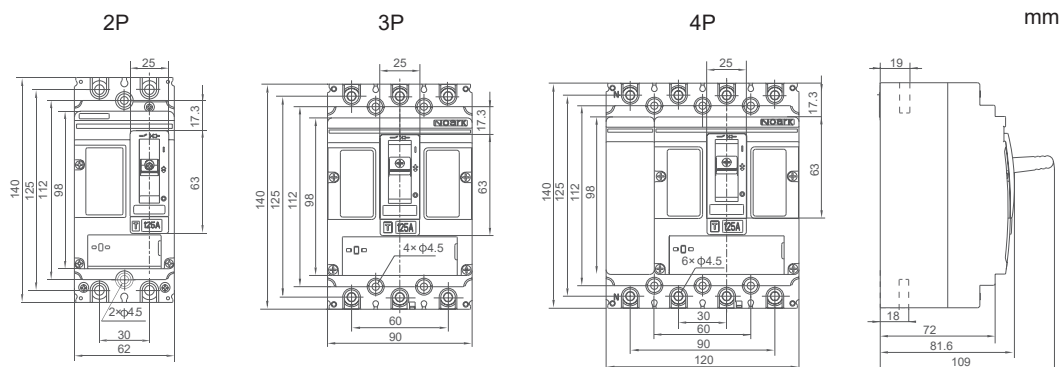
Derating coefficient of technical parameters based on altitude

Altitude	≤ 2 000 m	3 000 m	4 000 m	5 000 m
Derating op. current I_n coefficient	1	0.96	0.93	0.9
Maximum rated op. voltage U_e	690 V AC	550 V AC	480 V AC	420 V AC
Rated insulation voltage U_i	1000 V AC	930 V AC	870 V AC	800 V AC
Rated impulse withstand voltage U_{imp}	8 kV	8 kV	8 kV	8 kV
Dielectric properties ($U_{imp}=8$ kV)	2200 V AC	2050 V AC	1900 V AC	1770 V AC

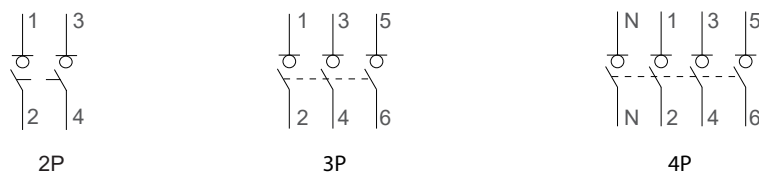
Technical Data Ex9M1SD AC

AC Moulded Case Switch Disconnectors up to 160 A

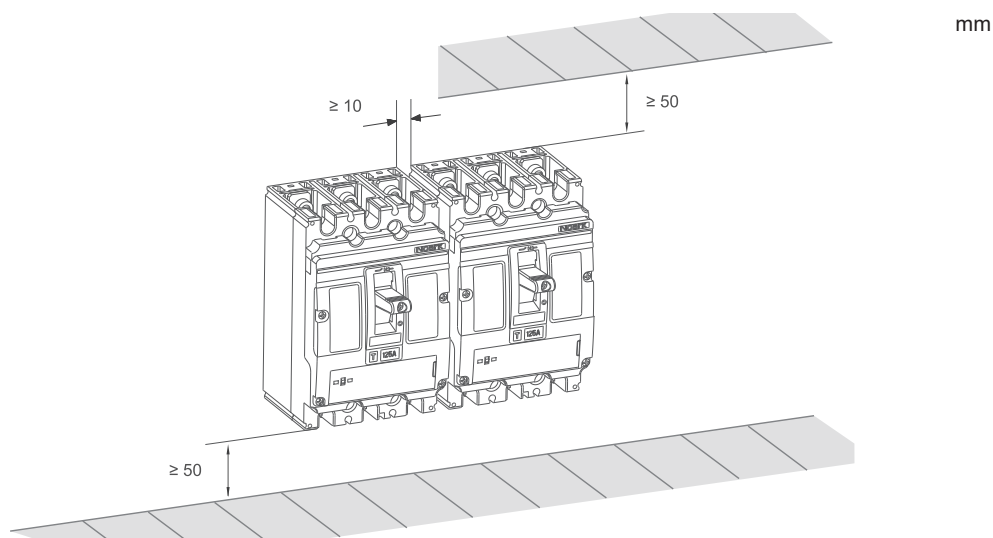
Dimensions



Wiring diagram



Installation space



Technical Data Ex9M2SD AC

AC Moulded Case Switch Disconnectors up to 250 A

General parameters

Suitable for commercial as well as industrial applications

Internal accessories

Auxiliary contact unit	AX21M	112071
Shunt trip releases	SHT22	101416 — 101424
Undervoltage releases	UVT22	101425 — 101426

2 Pole version can be install with 2 AX

Max. number of installed internal accessories is 2 pcs of AX21M and 1 pc of a release (SHT22 or UVT22)

External accessories

Direct rotary handle	RHD22	101429
Extended rotary handle	ERH22	101428
Remote motor operators	MOD22	101430, 101431, 112080, 101443
Terminal cover, short	TCV22 3P, 4P	101442, 102374
Terminal cover, long	TCE22 3P, 4P	101443, 102375
Phase barrier	PHS22	112111
Box terminals	MC22	103709
Screw Terminal	MCS22	107874
Tunnel terminal	MC22 W	103869, 103711, 103713
DIN-rail adapter	DRA22	106320
Off position toggle key lock	KLK22	108853
Front plate connection	JP22	108860, 108866
Rear connection plate	RCP22	108872, 108876
Mechanical interlock	MIT22	108856
Mounting depth spacers	WG10, WG13	106131, 106132

Mounting screws, box terminals as well as phase barriers in the scope of delivery

Technical Data Ex9M2SD AC

AC Moulded Case Switch Disconnectors up to 250 A

Electrical parameters

Tested according to	IEC/EN 60947-3
Rated op. voltage U_e	690 V AC
Rated insulation voltage U_i	1 000 V
Rated impulse withstand voltage U_{imp}	8 kV
Rated frequency	50/60 Hz
Rated short-time making capacity I_{cm}	5 kA / 690 V
Rated short-time withstand current I_{cw}	3.2 kA / 1 s 3.2 kA / 3 s
Rated current	250 A
Utilization category	AC-22A, AC-23A
Mechanical service life	15 000 operation cycles
Electrical service life	2 000 operation cycles / 690 V AC
Total disconnection time at short circuit	< 2 ms
Line voltage connection	arbitrary above or below

Power dissipation characteristics

I_n	250 A
Pole resistance (mΩ)	0.4
Pole power dissipation (W)	25

Mechanical parameters

Device width 2P / 3P / 4P	70 mm / 105 mm / 140 mm
Device height	157 mm
Device depth	96.5 mm
Mounting	onto panel
Degree of protection	IP40, IP20 terminals
Terminals	box
Terminal capacity	10 — 120 mm ²
Fastening torque of terminals	25 Nm
Ambient temperature	-40 — +70 °C
Relative humidity	≤ 50 % at 40 °C, ≤ 90 % monthly average
Pollution degree	3
Weight 2P / 3P / 4P	1.3 kg / 1.85 kg / 2.5 kg
Mounting position	vertical, can be rotated by 90° in each axis

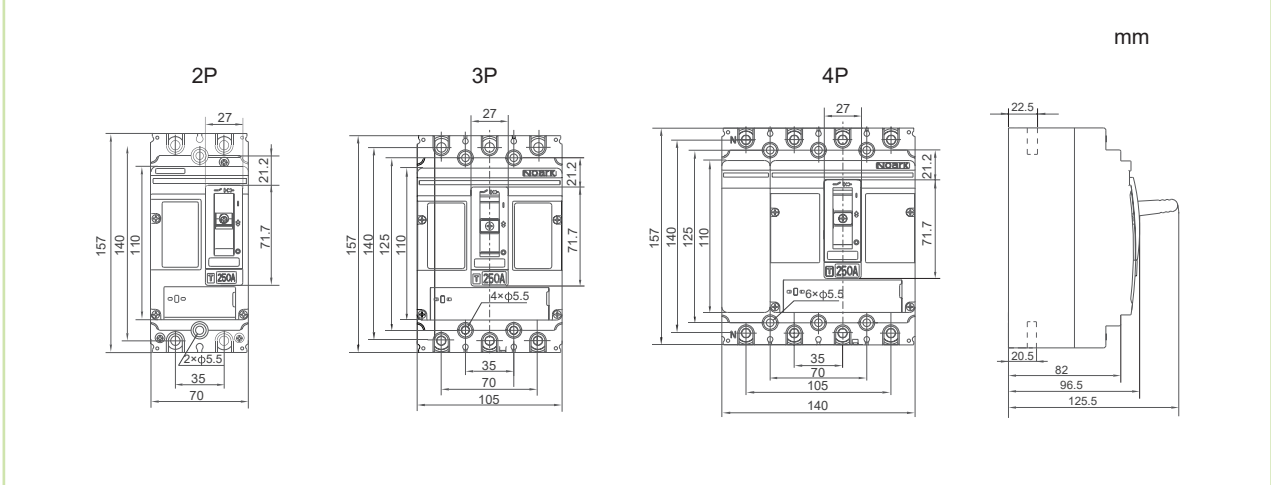
Derating coefficient of technical parameters based on altitude

Altitude	≤ 2 000 m	3 000 m	4 000 m	5 000 m
Derating op. current I_n coefficient	1	0.96	0.93	0.9
Maximum rated op. voltage U_e	690 V AC	550 V AC	480 V AC	420 V AC
Rated insulation voltage U_i	1000 V AC	930 V AC	870 V AC	800 V AC
Rated impulse withstand voltage U_{imp}	8 kV	8 kV	8 kV	8 kV
Dielectric properties ($U_{imp}=8$ kV)	2200 V AC	2050 V AC	1900 V AC	1770 V AC

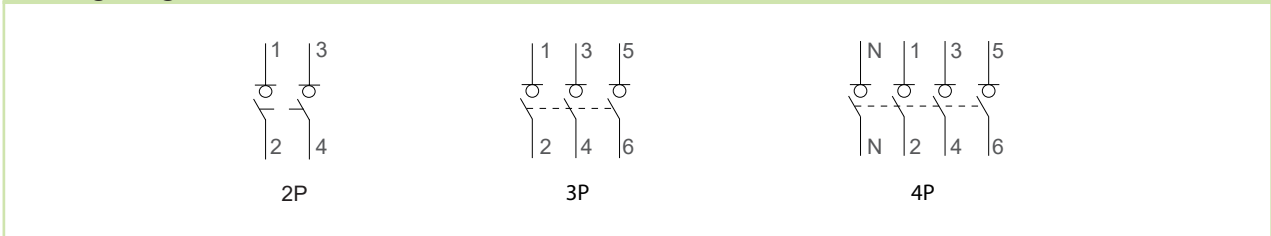
Technical Data Ex9M2SD AC

AC Moulded Case Switch Disconnectors up to 250 A

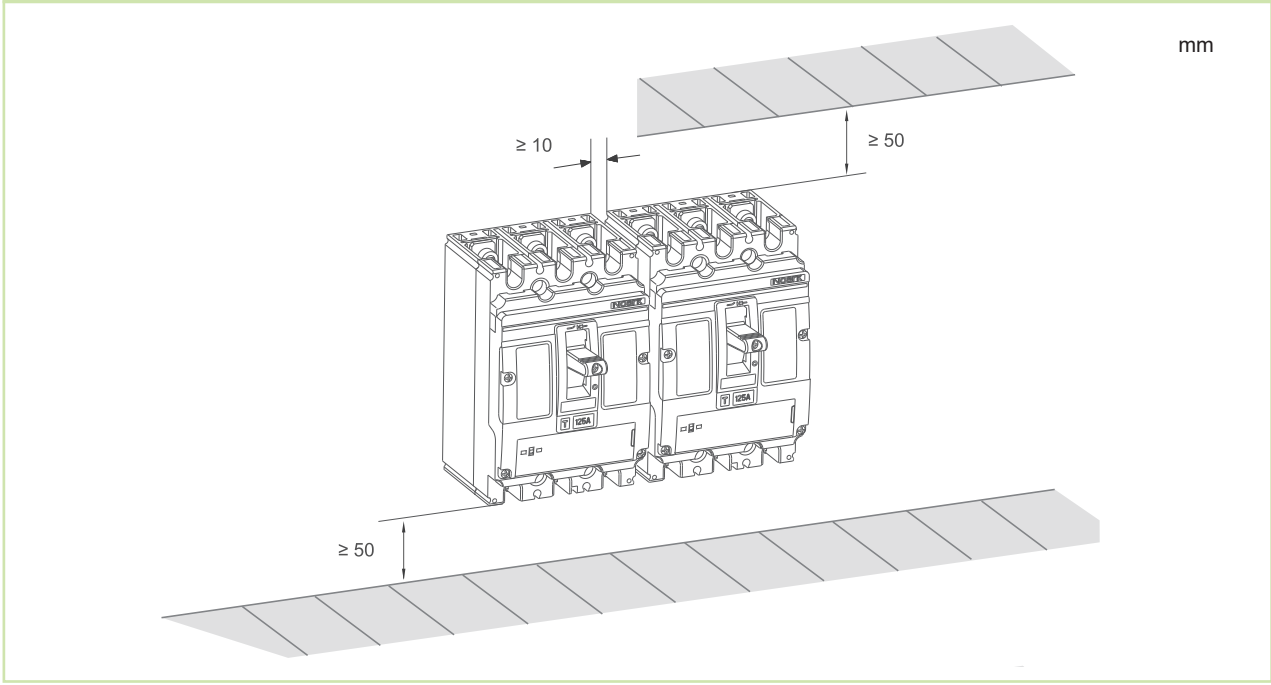
Dimensions



Wiring diagram



Installation space



Technical Data Ex9M3SD AC

AC Moulded Case Switch Disconnectors up to 400 A

General parameters

Suitable for commercial as well as industrial applications

Internal accessories

Auxiliary contact unit	AX21M	112071
Shunt trip releases	SHT22	101416 — 101424
Undervoltage releases	UVT22	101425 — 101426
Max. number of installed internal accessories is 2 pcs of AX21M and 1 pc of a release (SHT22 or UVT22)		

External accessories

Direct rotary handle	RHD23	101483
Extended rotary handle	ERH23	101482
Remote motor operators	MOD23	101484, 101485, 112081, 101488
Terminal cover, short	TCV23 3P, 4P	101489, 102376
Terminal cover, long	TCE23 3P, 4P	101490, 102377
Phase barrier	PHS23	112112
Box terminals	MC23	103715
Tunnel terminal	MC23 W	103719, 103721
Plug-in base	PIA 23	112879, 112880, 112885, 112886
Off position toggle key lock	KLK23	108854
Front plate connection	JP23	108861, 108867
Rear connection plate	RCP23	108873, 108877
Mechanical interlock	MIT23	108857
Mounting depth spacers	WG10, WG13	106131, 106132

Mounting screws, screw type terminals as well as phase barriers in the scope of delivery

Technical Data Ex9M3SD AC

AC Moulded Case Switch Disconnectors up to 400 A

Electrical parameters

Tested according to	IEC/EN 60947-3
Rated op. voltage U_e	690 V AC
Rated insulation voltage U_i	1 000 V
Rated impulse withstand voltage U_{imp}	12 kV
Rated frequency	50/60 Hz
Rated short-time making capacity I_{cm}	8 kA / 690 V
Rated short-time withstand current I_{cw}	5 kA / 1 s 5 kA / 3 s
Rated current	400 A
Utilization category	AC-22A, AC-23A
Mechanical service life	15 000 operation cycles
Electrical service life	1 500 operation cycles / 690 V AC
Total disconnection time at short circuit	< 2 ms
Line voltage connection	arbitrary above or below

Power dissipation characteristics

I_n	400 A
Pole resistance (mΩ)	0.15
Pole power dissipation (W)	24

Mechanical parameters

Device width 3P / 4P	140 mm / 185 mm
Device height	255 mm
Device depth	118.5 mm
Mounting	onto panel
Degree of protection	IP40, IP20 terminals
Terminals	M10 screws
Busbar thickness	≤ 8 mm
Busbar width	≤ 30 mm
Cable lug width	≤ 30 mm
Fastening torque of terminals	25 Nm
Ambient temperature	-40 — +70 °C
Relative humidity	≤ 50 % at 40 °C, ≤ 90 % monthly average
Pollution degree	3
Weight 3P / 4P	5 kg / 6.5 kg
Mounting position	vertical, can be rotated by 90° in each axis

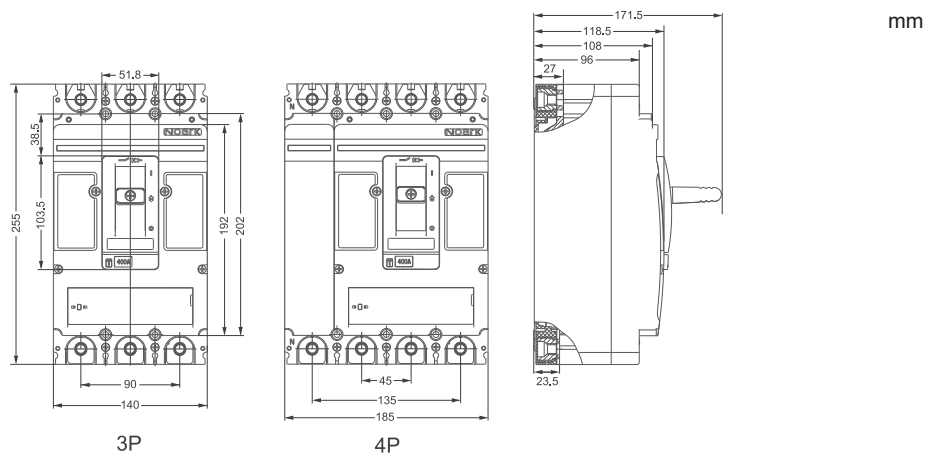
Derating coefficient of technical parameters based on altitude

Altitude	≤ 2 000 m	3 000 m	4 000 m	5 000 m
Derating op. current I_n coefficient	1	0.96	0.93	0.9
Maximum rated op. voltage U_e	690 V AC	550 V AC	480 V AC	420 V AC
Rated insulation voltage U_i	1000 V AC	930 V AC	870 V AC	800 V AC
Rated impulse withstand voltage U_{imp}	12 kV	10 kV	8 kV	8 kV
Dielectric properties ($U_{imp}=12$ kV)	2550 V AC	2370 V AC	2200 V AC	2050 V AC

Technical Data Ex9M3SD AC

AC Moulded Case Switch Disconnectors up to 400 A

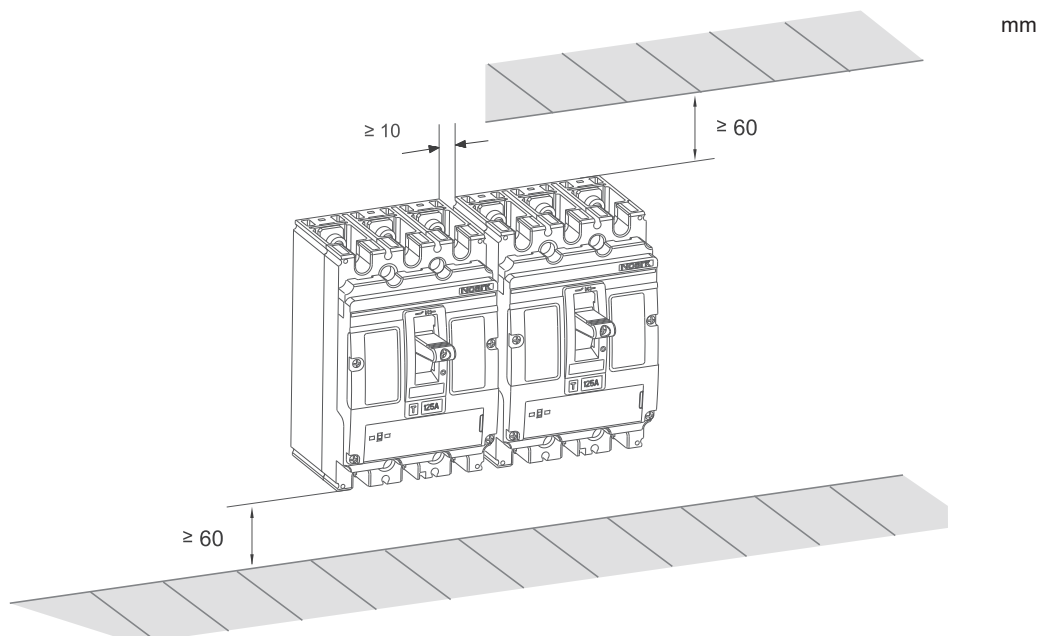
Dimensions



Wiring diagram



Installation space



Technical Data Ex9M4SD AC

AC Moulded Case Switch Disconnectors up to 630 A

General parameters

Suitable for commercial as well as industrial applications

Internal accessories

Auxiliary contact unit	AX21M	112071
Shunt trip releases	SHT24	103723 — 103730
Undervoltage releases	UVT24	103722 — 103740
Max. number of installed internal accessories is 2 pcs of AX21M and 1 pc of a release (SHT24 or UVT24)		

External accessories

Direct rotary handle	RHD24	103742
Extended rotary handle	ERH24	103741
Remote motor operators	MOD24	112873, 112874, 112082, 103747
Terminal cover, short	TCV24 3P, 4P	103748, 103750
Terminal cover, long	TCE24 3P, 4P	103749, 104855
Phase barrier	PHS24	112113
Tunnel terminals	MC24 W2	106314
Rear connection plate	RCP24	108874, 108878
Mechanical interlock	MIT24	108858
Mounting depth spacers	WG10, WG13	106131, 106132

Mounting screws, screw type terminals as well as phase barriers in the scope of delivery

Technical Data Ex9M4SD AC

AC Moulded Case Switch Disconnectors up to 630 A

Electrical parameters

Tested according to	IEC/EN 60947-3
Rated op. voltage U_e	690 V AC
Rated insulation voltage U_i	1 000 V
Rated impulse withstand voltage U_{imp}	12 kV
Rated frequency	50/60 Hz
Rated short-time making capacity I_{cm}	14 kA / 690 V
Rated short-time withstand current I_{cw}	8 kA / 1 s 8 kA / 3 s
Rated current	630 A
Utilization category	AC-22A, AC-23A
Mechanical service life	10 000 operation cycles
Electrical service life	1 000 operation cycles / 690 V AC
Total disconnection time at short circuit	< 2 ms
Line voltage connection	arbitrary above or below

Power dissipation characteristics

I_n	630 A
Pole resistance (mΩ)	0.08
Pole power dissipation (W)	31.8

Mechanical parameters

Device width 3P / 4P	195 mm / 260 mm
Device height	300 mm
Device depth	142 mm
Mounting	onto panel
Degree of protection	IP40, IP20 terminals
Terminals	M12 screws
Busbar thickness	≤ 10 mm
Busbar width	≤ 50 mm
Cable lug width	≤ 50 mm
Fastening torque of terminals	30 Nm
Ambient temperature	-40 — +70 °C
Relative humidity	≤ 50 % at 40 °C, ≤ 90 % monthly average
Pollution degree	3
Weight 3P / 4P	9.5 kg / 12.5 kg
Mounting position	vertical, can be rotated by 90° in each axis

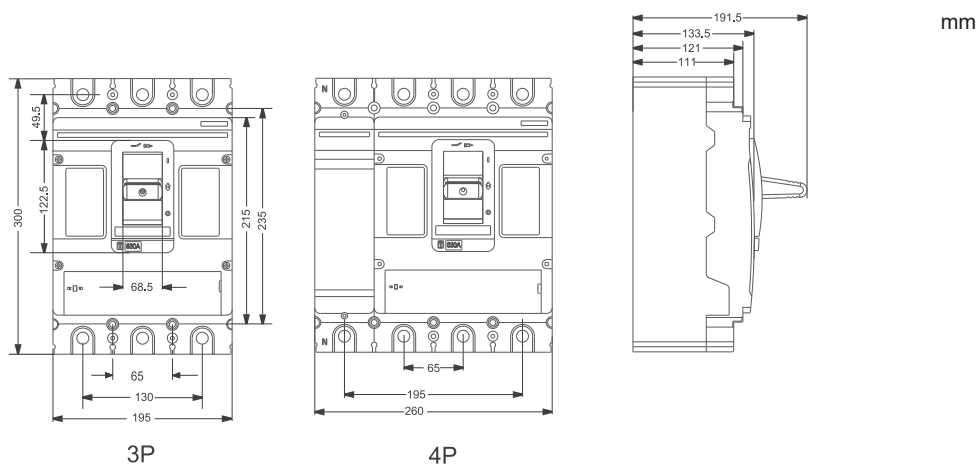
Derating coefficient of technical parameters based on altitude

Altitude	≤ 2 000 m	3 000 m	4 000 m	5 000 m
Derating op. current I_n coefficient	1	0.96	0.93	0.9
Maximum rated op. voltage U_e	690 V AC	550 V AC	480 V AC	420 V AC
Rated insulation voltage U_i	1000 V AC	930 V AC	870 V AC	800 V AC
Rated impulse withstand voltage U_{imp}	12 kV	10 kV	8 kV	8 kV
Dielectric properties (U_{imp} = 12 kV)	2550 V AC	2370 V AC	2200 V AC	2050 V AC

Technical Data Ex9M4SD AC

AC Moulded Case Switch Disconnectors up to 630 A

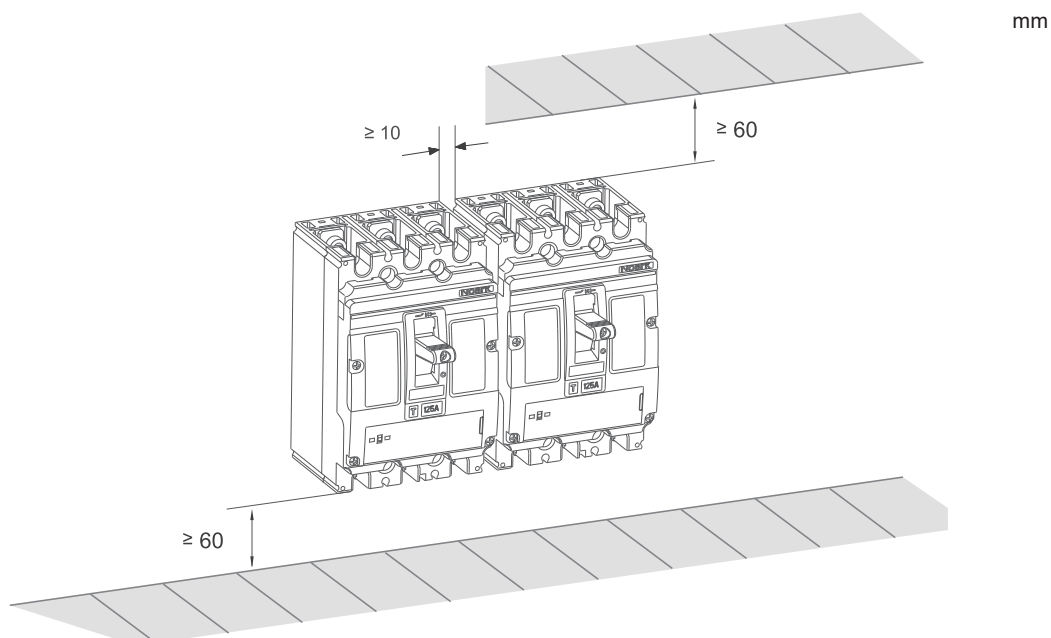
Dimensions



Wiring diagram



Installation space



Technical Data Ex9M5SD AC

AC Moulded Case Switch Disconnectors up to 800 A

General parameters

Suitable for commercial as well as industrial applications

Internal accessories

Auxiliary contact unit	AX21M	112071
Shunt trip releases	SHT24	103723 — 103730
Undervoltage releases	UVT24	103722 — 103740
Max. number of installed internal accessories is 2 pcs of AX21M and 1 pc of a release (SHT24 or UVT24)		

External accessories

Direct rotary handle	RHD24	103742
Extended rotary handle	ERH24	103741
Remote motor operators	MOD24	112873, 112874, 112082, 103747
Terminal cover, short	TCV24 3P, 4P	103748, 103750
Terminal cover, long	TCE24 3P, 4P	103749, 104855
Phase barrier	PHS24	112113
Tunnel terminals	MC24 W2	106314
Rear connection plate	RCP24	108874, 108878
Mechanical interlock	MIT24	108858
Mounting depth spacers	WG10, WG13	106131, 106132

Mounting screws, screw type terminals as well as phase barriers in the scope of delivery

Technical Data Ex9M5SD AC

AC Moulded Case Switch Disconnectors up to 800 A

Electrical parameters

Tested according to	IEC/EN 60947-3
Rated op. voltage U_e	690 V AC
Rated insulation voltage U_i	1 000 V
Rated impulse withstand voltage U_{imp}	12 kV
Rated frequency	50/60 Hz
Rated short-time making capacity I_{cm}	17 kA / 690 V
Rated short-time withstand current I_{cw}	10 kA / 1 s 10 kA / 3 s
Rated current	800 A
Utilization category	AC-22A, AC-23A
Mechanical service life	10 000 operation cycles
Electrical service life	1 000 operation cycles / 690 V AC
Total disconnection time at short circuit	< 2 ms
Line voltage connection	arbitrary above or below

Power dissipation characteristics

I_n	800 A
Pole resistance (mΩ)	0.08
Pole power dissipation (W)	51.2

Mechanical parameters

Device width 3P / 4P	195 mm / 260 mm
Device height	300 mm
Device depth	142 mm
Mounting	onto panel
Degree of protection	IP40, IP20 terminals
Terminals	M12 screws
Busbar thickness	≤ 10 mm
Busbar width	≤ 50 mm
Cable lug width	≤ 50 mm
Fastening torque of terminals	30 Nm
Ambient temperature	-40 — +70 °C
Relative humidity	≤ 50 % at 40 °C, ≤ 90 % monthly average
Pollution degree	3
Weight 3P / 4P	9.5 kg / 12.5 kg
Mounting position	vertical, can be rotated by 90° in each axis

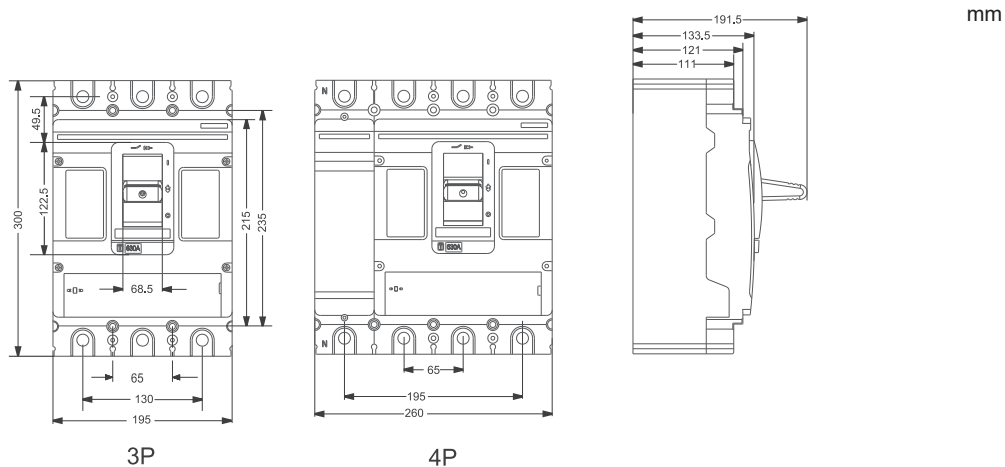
Derating coefficient of technical parameters based on altitude

Altitude	≤ 2 000 m	3 000 m	4 000 m	5 000 m
Derating op. current I_n coefficient	1	0.96	0.93	0.9
Maximum rated op. voltage U_e	690 V AC	550 V AC	480 V AC	420 V AC
Rated insulation voltage U_i	1000 V AC	930 V AC	870 V AC	800 V AC
Rated impulse withstand voltage U_{imp}	12 kV	10 kV	8 kV	8 kV
Dielectric properties (U_{imp} = 12 kV)	2550 V AC	2370 V AC	2200 V AC	2050 V AC

Technical Data Ex9M5SD AC

AC Moulded Case Switch Disconnectors up to 800 A

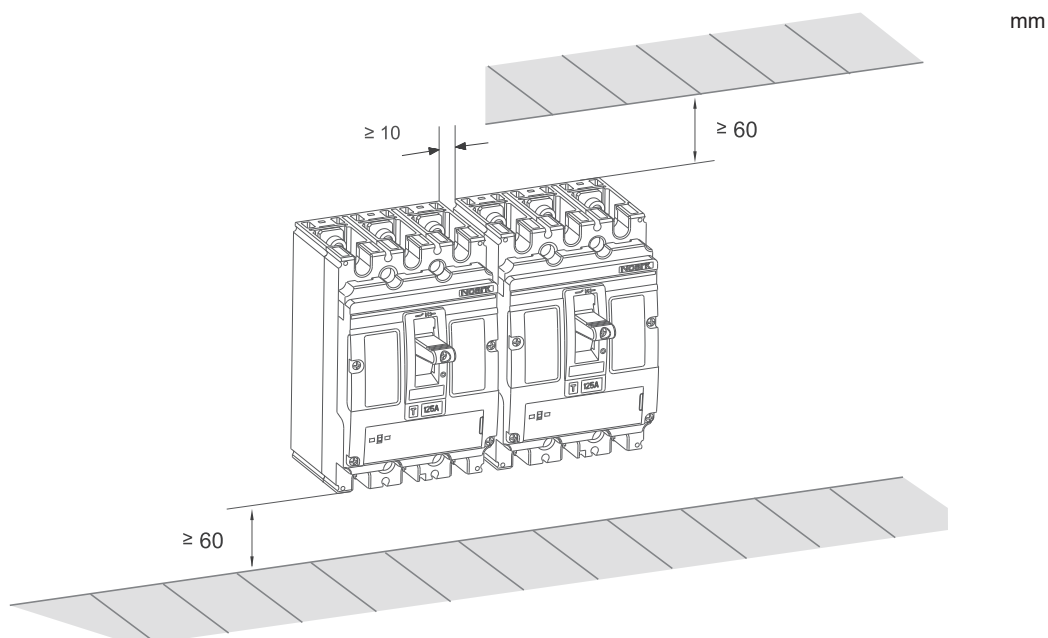
Dimensions



Wiring diagram



Installation space



Technical Data Ex9M6SD AC

AC Moulded Case Switch Disconnectors up to 1 600 A

General parameters

Suitable for household as well as industrial applications

Internal accessories

Auxiliary contact unit	AX21M	112071
Shunt trip releases	SHT26	110460 — 110467
Undervoltage releases	UVT26	110468 — 110469

Max. number of installed internal accessories is 2 pcs of AX21 and 1 pc of a release (SHT26 or UVT26)

External accessories

Extended handle	LHD26	110698
Extended rotary handle	ERH26	108846
Front connection plate	JP26	110694 — 110697

Mounting screws, screw type terminals as well as phase barriers in the scope of delivery

Technical Data Ex9M6SD AC

AC Moulded Case Switch Disconnectors up to 1 600 A

Electrical parameters

Tested according to	IEC/EN 60947-3
Rated op. voltage U_e	690 V AC
Rated insulation voltage U_i	1 000 V
Rated impulse withstand voltage U_{imp}	12 kV
Rated frequency	50/60 Hz
Rated short-time making capacity I_{cm}	40 kA / 690 V
Rated short-time withstand current I_{cw}	20 kA / 1 s 20 kA / 3 s
Rated current	800 / 1 000 / 1 250 / 1 600 A
Utilization category	AC-22A, AC-23A
Mechanical service life	6 000 operation cycles
Electrical service life	1 000 operation cycles / 690 V AC
Total disconnection time at short circuit	< 2 ms
Line voltage connection	arbitrary above or below

Power dissipation characteristics

I_n	800 A	1 000 A	1 250 A	1 600 A
Pole resistance (mΩ)	0.08	0.08	0.04	0.04
Pole power dissipation (W)	51.2	80.0	62.5	102.4

Mechanical parameters

Device width 3P / 4P	210 mm / 280 mm
Device height	286 mm
Device depth	191 mm
Mounting	onto panel
Degree of protection	IP40, IP20 terminals
Terminals	M10 screws
Busbar thickness	≤ 10 mm
Busbar width	≤ 50 mm
Cable lug width	≤ 50 mm
Fastening torque of terminals	25 — 30 Nm
Ambient temperature	-40 — +70 °C
Relative humidity	≤ 50 % at 40 °C, ≤ 90 % monthly average
Pollution degree	3
Weight 3P / 4P	13 / 17 kg
Mounting position	vertical, can be rotated by 90° in each axis

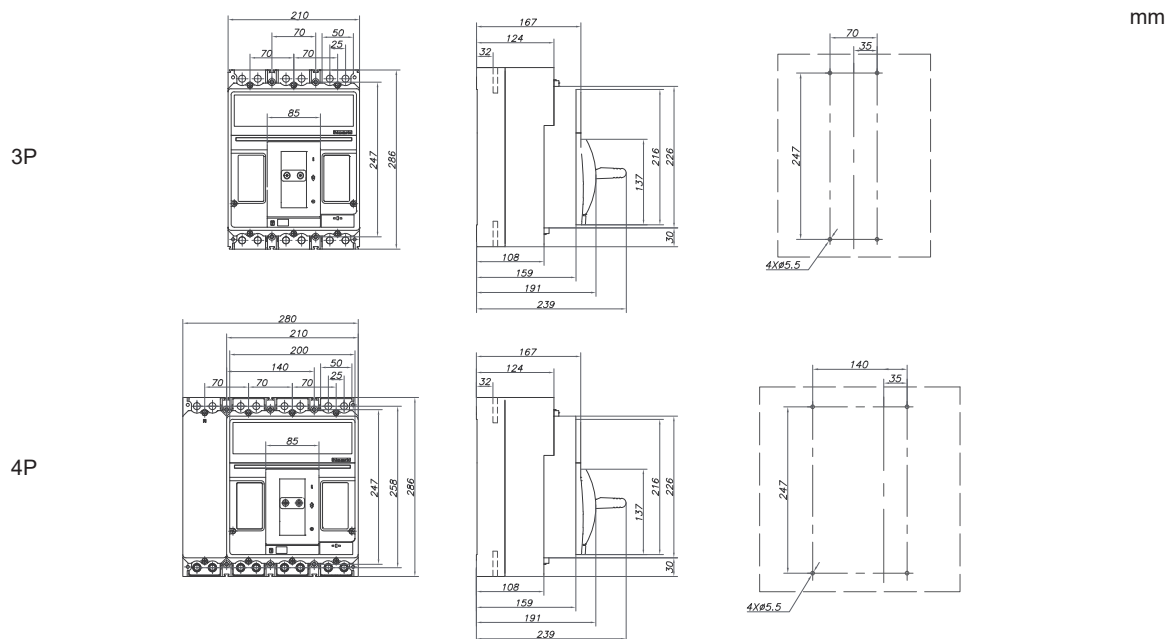
Derating coefficient of technical parameters based on altitude

Altitude	≤ 2 000 m	3 000 m	4 000 m	5 000 m
Derating op. current I_n coefficient	1	0.96	0.93	0.9
Maximum rated op. voltage U_e	690 V AC	550 V AC	480 V AC	420 V AC
Rated insulation voltage U_i	1000 V AC	930 V AC	870 V AC	800 V AC
Rated impulse withstand voltage U_{imp}	8 kV	8 kV	8 kV	8 kV
Dielectric properties ($U_{imp}=8$ kV)	2200 V AC	2050 V AC	1900 V AC	1770 V AC

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Dimensions



Wiring diagram



Installation space

