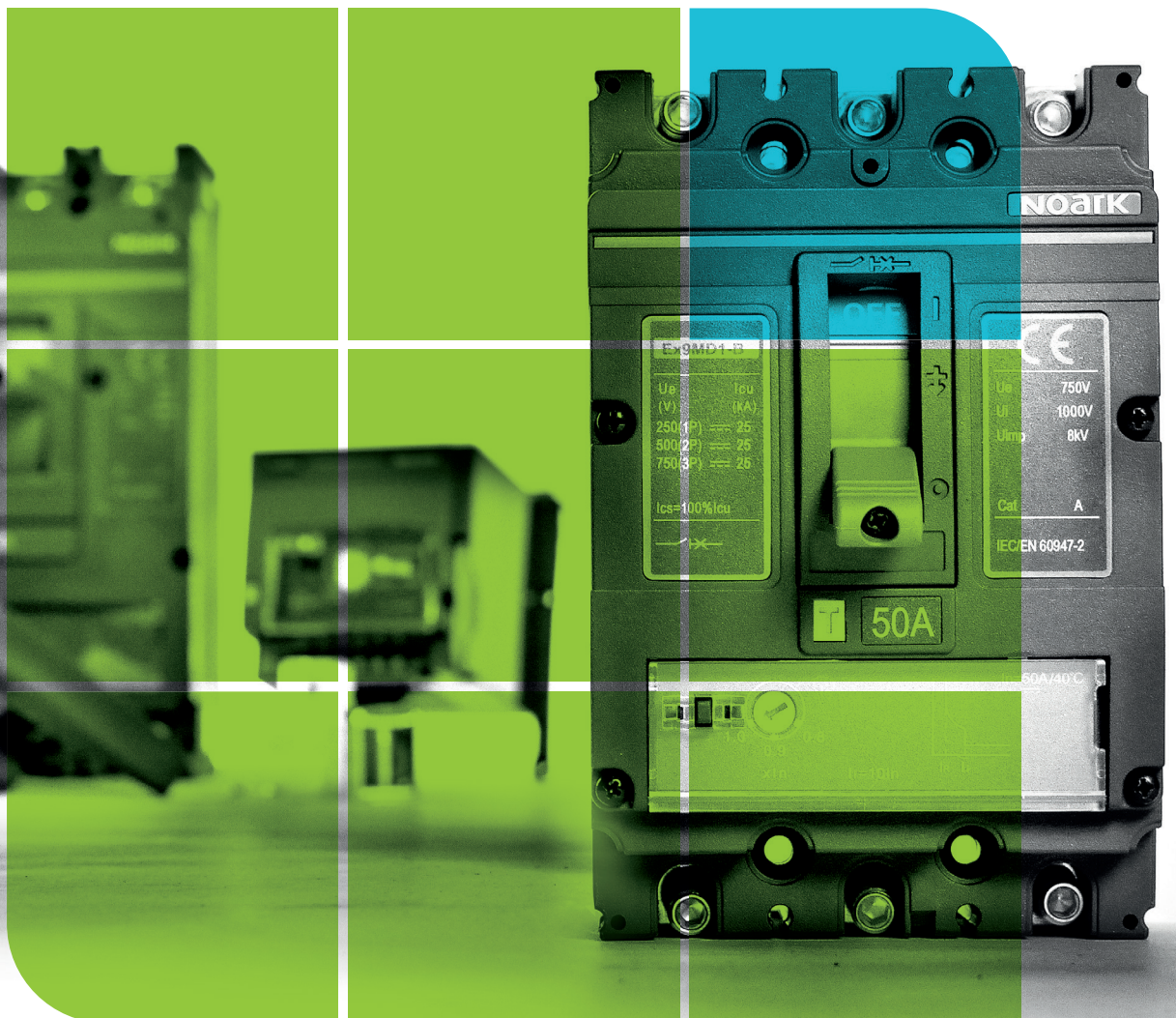


MOULDED CASE CIRCUIT BREAKERS

CATALOGUE
OF MOULDED CASE CIRCUIT
BREAKERS AND SWITCH DISCONNECTORS

VALID FROM 1ST APRIL 2020



www.noark-electric.eu

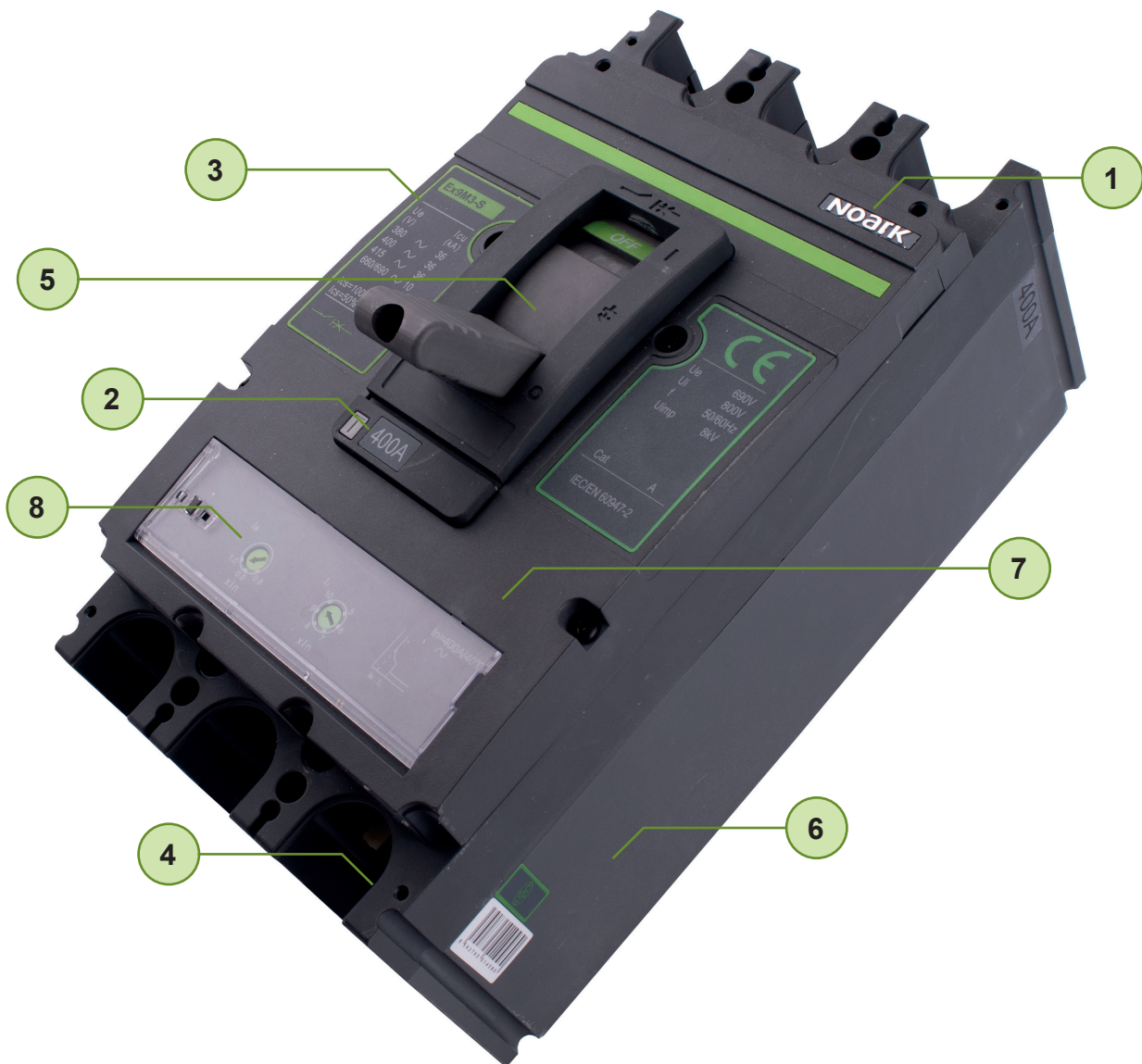
NOARK

Moulded Case Circuit Breakers



Moulded Case Circuit Breakers

Professional Tips



- 1 5 years warranty
- 2 Rated current from 16 A up to 1600 A
- 3 Breaking capacity up 150 kA
- 4 3 and 4-pole versions available
- 5 Six frame sizes M1 - M6
- 6 AC and DC MCCBs and Switch disconnectors
- 7 Wide range of accessories
- 8 Thermomagnetic release for size M1-M5 and electronic release for size M6

Moulded Case Circuit Breakers Ex9M



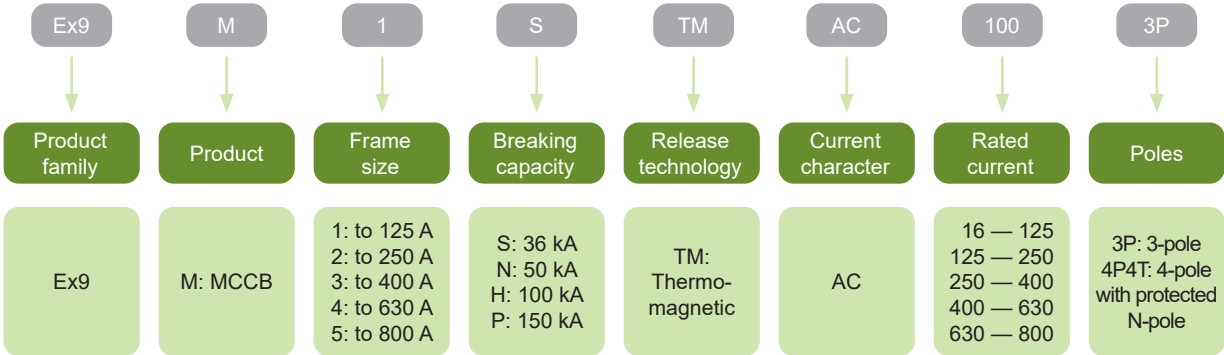
- Moulded Case Circuit Breakers
- Frame sizes M1-M5
- Rated current up to 800 A
- 3 and 4-pole versions
- Rated ultimate short circuit breaking capacity Icu up to 150 kA, Ics = 100 % Icu
- Rated voltage 415 / 690 V AC
- Thermomagnetic releases
- Fixed versions

Moulded Case Circuit Breakers Ex9M TM are intended for applications in power distribution mainly. Testing according to IEC / EN 60947-2 standards ensures functions and reliability for wide variety of applications including isolation.

These breakers are offered with breaking capacities from 36 kA up to extreme 150 kA. Rated impulse withstand voltage U_{imp} 8 kV makes it possible to use them even in system with occurrences of transient overvoltage waves of high intensity, e.g. in heavy industry.

Utilization category A circuit breakers.

Type Key

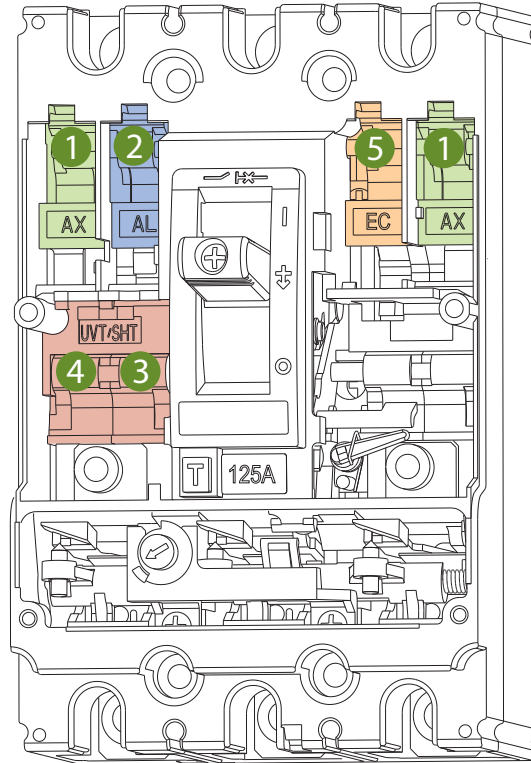


Certification marks



Moulded Case Circuit Breakers Ex9M

Internal accessories



1

Auxiliary contact
AX21

2

Signal contact
AL21

3

Shunt trip release
SHT2i
1 unit or UVT2i

4

Undervoltage release
UVT2i
1 unit or SHT2i

5

Early-make
auxiliary contact
EC 2i

Auxiliary contact AX21

see page 62

Signal contact AL21

see page 62

Shunt trip releases SHT2i

see page 62

Undervoltage releases UVT2i

see page 63

Early-make auxiliary contact EC 2i

see page 62

All internal accessories for the frame sizes M2+M3 and M4+M5 are identical.

Moulded Case Circuit Breakers Ex9M

External accessories



Phase barriers
PB2i



Terminal cover, short
TCV2i



Terminal cover, long
TCE2i



Box terminals
MC2i



Tunnel terminals
MC2i W



Mounting depth spacers
WG i



Remote operator
MOD2i



Direct rotary handle
RHD2i



Extended rotary handle
ERH2i

Phase barriers PB2i	see page 64
Terminal cover, short TCV2i	see page 65
Terminal cover, long TCE2i	see page 66
Remote operators MOD2i	see page 63
Direct rotary handles RHD2i	see page 64
Extended rotary handles ERH2i	see page 64
Connection terminals MC2i	see page 65
Mounting depth spacers WG i	see page 66

Moulded Case Circuit Breakers Ex9M1

Version Ex9M1S up to 125 A, $I_{cu} = 36$ kA

- 3 and 4-pole Moulded Case Circuit Breakers
- $I_{cs} = I_{cu} = 36$ kA at 415 V AC
- I_r can be set in steps $(0.8-0.9-1.0) \times I_n$
- I_i fixed as $10 \times I_n$
- Mounting screws, box terminals as well as phase barriers in the scope of delivery



Poles	Rated current I_n	Overcurrent release I_r	Instant. release I_i	Article No.	Type	Packing
3	16 A	12.8—16 A	160 A	100886	Ex9M1S TM AC16 3P	1/8
3	20 A	16—20 A	200 A	100887	Ex9M1S TM AC20 3P	1/8
3	25 A	20—25 A	250 A	100888	Ex9M1S TM AC25 3P	1/8
3	32 A	25.6—32 A	320 A	100889	Ex9M1S TM AC32 3P	1/8
3	40 A	32—40 A	400 A	100890	Ex9M1S TM AC40 3P	1/8
3	50 A	40—50 A	500 A	100891	Ex9M1S TM AC50 3P	1/8
3	63 A	50.4—63 A	630 A	100892	Ex9M1S TM AC63 3P	1/8
3	80 A	64—80 A	800 A	100893	Ex9M1S TM AC80 3P	1/8
3	100 A	80—100 A	1000 A	100894	Ex9M1S TM AC100 3P	1/8
3	125 A	100—125 A	1250 A	100895	Ex9M1S TM AC125 3P	1/8
4	16 A	12.8—16 A	160 A	103062	Ex9M1S TM AC16 4P4T	1/8
4	20 A	16—20 A	200 A	103063	Ex9M1S TM AC20 4P4T	1/8
4	25 A	20—25 A	250 A	103064	Ex9M1S TM AC25 4P4T	1/8
4	32 A	25.6—32 A	320 A	103065	Ex9M1S TM AC32 4P4T	1/8
4	40 A	32—40 A	400 A	103066	Ex9M1S TM AC40 4P4T	1/8
4	50 A	40—50 A	500 A	103067	Ex9M1S TM AC50 4P4T	1/8
4	63 A	50.4—63 A	630 A	103068	Ex9M1S TM AC63 4P4T	1/8
4	80 A	64—80 A	800 A	103069	Ex9M1S TM AC80 4P4T	1/8
4	100 A	80—100 A	1000 A	103070	Ex9M1S TM AC100 4P4T	1/8
4	125 A	100—125 A	1250 A	103071	Ex9M1S TM AC125 4P4T	1/8

Version Ex9M1N up to 125 A, $I_{cu} = 50$ kA

- 3 and 4-pole Moulded Case Circuit Breakers
- $I_{cs} = I_{cu} = 50$ kA at 415 V AC
- I_r can be set in steps $(0.8-0.9-1.0) \times I_n$
- I_i fixed as $10 \times I_n$
- Mounting screws, box terminals as well as phase barriers in the scope of delivery



Poles	Rated current I_n	Overcurrent release I_r	Instant. release I_i	Article No.	Type	Packing
3	16 A	12.8—16 A	160 A	100896	Ex9M1N TM AC16 3P	1/8
3	20 A	16—20 A	200 A	100897	Ex9M1N TM AC20 3P	1/8
3	25 A	20—25 A	250 A	100898	Ex9M1N TM AC25 3P	1/8
3	32 A	25.6—32 A	320 A	100899	Ex9M1N TM AC32 3P	1/8
3	40 A	32—40 A	400 A	100900	Ex9M1N TM AC40 3P	1/8
3	50 A	40—50 A	500 A	100901	Ex9M1N TM AC50 3P	1/8
3	63 A	50.4—63 A	630 A	100902	Ex9M1N TM AC63 3P	1/8
3	80 A	64—80 A	800 A	100903	Ex9M1N TM AC80 3P	1/8
3	100 A	80—100 A	1000 A	100904	Ex9M1N TM AC100 3P	1/8
3	125 A	100—125 A	1250 A	100905	Ex9M1N TM AC125 3P	1/8
4	16 A	12.8—16 A	160 A	103072	Ex9M1N TM AC16 4P4T	1/8
4	20 A	16—20 A	200 A	103073	Ex9M1N TM AC20 4P4T	1/8
4	25 A	20—25 A	250 A	103074	Ex9M1N TM AC25 4P4T	1/8
4	32 A	25.6—32 A	320 A	103075	Ex9M1N TM AC32 4P4T	1/8
4	40 A	32—40 A	400 A	103076	Ex9M1N TM AC40 4P4T	1/8
4	50 A	40—50 A	500 A	103077	Ex9M1N TM AC50 4P4T	1/8
4	63 A	50.4—63 A	630 A	103078	Ex9M1N TM AC63 4P4T	1/8
4	80 A	64—80 A	800 A	103079	Ex9M1N TM AC80 4P4T	1/8
4	100 A	80—100 A	1000 A	103080	Ex9M1N TM AC100 4P4T	1/8
4	125 A	100—125 A	1250 A	103081	Ex9M1N TM AC125 4P4T	1/8

Moulded Case Circuit Breakers Ex9M2

Version Ex9M2S up to 250 A, $I_{cu} = 36$ kA

- 3 and 4-pole Moulded Case Circuit Breakers
- $I_{cs} = I_{cu} = 36$ kA at 415 V AC
- I_r can be set in steps $(0.8-0.9-1.0) \times I_n$
- I_i variable $(5-6-7-8-9-10) \times I_n$
- Mounting screws, box terminals as well as phase barriers in the scope of delivery



Poles	Rated current I_n	Overcurrent release I_r	Instant. release I_i	Article No.	Type	Packing
3	125 A	100-125 A	625-1250	101293	Ex9M2S TM AC125 3P	1/4
3	160 A	128-160 A	800-1600	101294	Ex9M2S TM AC160 3P	1/4
3	180 A	144-180 A	900-1800	101295	Ex9M2S TM AC180 3P	1/4
3	200 A	160-200 A	1000-2000	101296	Ex9M2S TM AC200 3P	1/4
3	225 A	180-225 A	1125-2250	101297	Ex9M2S TM AC225 3P	1/4
3	250 A	200-250 A	1250-2500	101298	Ex9M2S TM AC250 3P	1/4
4	125 A	100-125 A	625-1250	103132	Ex9M2S TM AC125 4P4T	1/4
4	160 A	128-160 A	800-1600	103133	Ex9M2S TM AC160 4P4T	1/4
4	180 A	144-180 A	900-1800	103134	Ex9M2S TM AC180 4P4T	1/4
4	200 A	160-200 A	1000-2000	103135	Ex9M2S TM AC200 4P4T	1/4
4	225 A	180-225 A	1125-2250	103136	Ex9M2S TM AC225 4P4T	1/4
4	250 A	200-250 A	1250-2500	103137	Ex9M2S TM AC250 4P4T	1/4

Version Ex9M2N up to 250 A, $I_{cu} = 50$ kA

- 3 and 4-pole Moulded Case Circuit Breakers
- $I_{cs} = I_{cu} = 50$ kA at 415 V AC
- I_r can be set in steps $(0.8-0.9-1.0) \times I_n$
- I_i variable $(5-6-7-8-9-10) \times I_n$
- Mounting screws, box terminals as well as phase barriers in the scope of delivery



Poles	Rated current I_n	Overcurrent release I_r	Instant. release I_i	Article No.	Type	Packing
3	125 A	100-125 A	625-1250	101299	Ex9M2N TM AC125 3P	1/4
3	160 A	128-160 A	800-1600	101300	Ex9M2N TM AC160 3P	1/4
3	180 A	144-180 A	900-1800	101301	Ex9M2N TM AC180 3P	1/4
3	200 A	160-200 A	1000-2000	101302	Ex9M2N TM AC200 3P	1/4
3	225 A	180-225 A	1125-2250	101303	Ex9M2N TM AC225 3P	1/4
3	250 A	200-250 A	1250-2500	101304	Ex9M2N TM AC250 3P	1/4
4	125 A	100-125 A	625-1250	103138	Ex9M2N TM AC125 4P4T	1/4
4	160 A	128-160 A	800-1600	103139	Ex9M2N TM AC160 4P4T	1/4
4	180 A	144-180 A	900-1800	103140	Ex9M2N TM AC180 4P4T	1/4
4	200 A	160-200 A	1000-2000	103141	Ex9M2N TM AC200 4P4T	1/4
4	225 A	180-225 A	1125-2250	103142	Ex9M2N TM AC225 4P4T	1/4
4	250 A	200-250 A	1250-2500	103143	Ex9M2N TM AC250 4P4T	1/4

Moulded Case Circuit Breakers Ex9M3

Version Ex9M3S up to 400 A, $I_{cu} = 36$ kA

- 3 and 4-pole Moulded Case Circuit Breakers
- $I_{cs} = I_{cu} = 36$ kA at 415 V AC
- I_r can be set in steps $(0.8-0.9-1.0) \times I_n$
- I_f variable $(5-6-7-8-9-10) \times I_n$
- Mounting screws and phase barriers in the scope of delivery



Poles	Rated current I_n	Overcurrent release I_r	Instant. release I_f	Article No.	Type	Packing
3	250 A	200-250 A	1250-2500	101454	Ex9M3S TM AC250 3P	1/2
3	315 A	252-315 A	1575-3150	101455	Ex9M3S TM AC315 3P	1/2
3	350 A	280-350 A	1750-3500	101456	Ex9M3S TM AC350 3P	1/2
3	400 A	320-400 A	2000-4000	101457	Ex9M3S TM AC400 3P	1/2
4	250 A	200-250 A	1250-2500	103174	Ex9M3S TM AC250 4P4T	1/2
4	315 A	252-315 A	1575-3150	103175	Ex9M3S TM AC315 4P4T	1/2
4	350 A	280-350 A	1750-3500	103176	Ex9M3S TM AC350 4P4T	1/2
4	400 A	320-400 A	2000-4000	103177	Ex9M3S TM AC400 4P4T	1/2

Version Ex9M3N up to 400 A, $I_{cu} = 50$ kA

- 3 and 4-pole Moulded Case Circuit Breakers
- $I_{cs} = I_{cu} = 50$ kA at 415 V AC
- I_r can be set in steps $(0.8-0.9-1.0) \times I_n$
- I_f variable $(5-6-7-8-9-10) \times I_n$
- Mounting screws and phase barriers in the scope of delivery



Poles	Rated current I_n	Overcurrent release I_r	Instant. release I_f	Article No.	Type	Packing
3	250 A	200-250 A	1250-2500	101458	Ex9M3N TM AC250 3P	1/2
3	315 A	252-315 A	1575-3150	101459	Ex9M3N TM AC315 3P	1/2
3	350 A	280-350 A	1750-3500	101460	Ex9M3N TM AC350 3P	1/2
3	400 A	320-400 A	2000-4000	101461	Ex9M3N TM AC400 3P	1/2
4	250 A	200-250 A	1250-2500	103178	Ex9M3N TM AC250 4P4T	1/2
4	315 A	252-315 A	1575-3150	103179	Ex9M3N TM AC315 4P4T	1/2
4	350 A	280-350 A	1750-3500	103180	Ex9M3N TM AC350 4P4T	1/2
4	400 A	320-400 A	2000-4000	103181	Ex9M3N TM AC400 4P4T	1/2

Moulded Case Circuit Breakers Ex9M4

Version Ex9M4S up to 630 A, $I_{cu} = 36$ kA

- 3 and 4-pole Moulded Case Circuit Breakers
- $I_{cs} = I_{cu} = 36$ kA at 415 V AC
- I_r can be set in steps $(0.8-0.9-1.0) \times I_n$
- I_i variable $(5-6-7-8-9-10) \times I_n$
- Mounting screws and phase barriers in the scope of delivery



Poles	Rated current I_n	Overcurrent release I_r	Instant. release I_i	Article No.	Type	Packing
3	400 A	320-400 A	2000-4000	103373	Ex9M4S TM AC400 3P	1/1
3	500 A	400-500 A	2500-5000	103374	Ex9M4S TM AC500 3P	1/1
3	630 A	500-630 A	3150-6300	103375	Ex9M4S TM AC630 3P	1/1
4	400 A	320-400 A	2000-4000	103415	Ex9M4S TM AC400 4P4T	1/1
4	500 A	400-500 A	2500-5000	103416	Ex9M4S TM AC500 4P4T	1/1
4	630 A	500-630 A	3150-6300	103417	Ex9M4S TM AC630 4P4T	1/1

Version Ex9M4N up to 630 A, $I_{cu} = 50$ kA

- 3 and 4-pole Moulded Case Circuit Breakers
- $I_{cs} = I_{cu} = 50$ kA at 415 V AC
- I_r can be set in steps $(0.8-0.9-1.0) \times I_n$
- I_i variable $(5-6-7-8-9-10) \times I_n$
- Mounting screws and phase barriers in the scope of delivery



Poles	Rated current I_n	Overcurrent release I_r	Instant. release I_i	Article No.	Type	Packing
3	400 A	320-400 A	2000-4000	103376	Ex9M4N TM AC400 3P	1/1
3	500 A	400-500 A	2500-5000	103377	Ex9M4N TM AC500 3P	1/1
3	630 A	500-630 A	3150-6300	103378	Ex9M4N TM AC630 3P	1/1
4	400 A	320-400 A	2000-4000	103418	Ex9M4N TM AC400 4P4T	1/1
4	500 A	400-500 A	2500-5000	103419	Ex9M4N TM AC500 4P4T	1/1
4	630 A	500-630 A	3150-6300	103420	Ex9M4N TM AC630 4P4T	1/1

Moulded Case Circuit Breakers Ex9M5

Version Ex9M5S up to 800 A, $I_{cu} = 36$ kA

- 3 and 4-pole Moulded Case Circuit Breakers
- $I_{cs} = I_{cu} = 36$ kA at 415 V AC
- I_r can be set in steps $(0.8-0.9-1.0) \times I_n$
- I_i variable $(5-6-7-8-9-10) \times I_n$
- Mounting screws and phase barriers in the scope of delivery



Poles	Rated current I_n	Overcurrent release I_r	Instant. release I_i	Article No.	Type	Packing
3	630 A	500-630 A	3150-6300	103394	Ex9M5S TM AC630 3P	1/1
3	700 A	560-700 A	3500-7000	103395	Ex9M5S TM AC700 3P	1/1
3	800 A	640-800 A	4000-8000	103396	Ex9M5S TM AC800 3P	1/1
4	630 A	500-630 A	3150-6300	103436	Ex9M5S TM AC630 4P4T	1/1
4	700 A	560-700 A	3500-7000	103437	Ex9M5S TM AC700 4P4T	1/1
4	800 A	640-800 A	4000-8000	103438	Ex9M5S TM AC800 4P4T	1/1

Version Ex9M5N up to 800 A, $I_{cu} = 50$ kA

- 3 and 4-pole Moulded Case Circuit Breakers
- $I_{cs} = I_{cu} = 50$ kA at 415 V AC
- I_r can be set in steps $(0.8-0.9-1.0) \times I_n$
- I_i variable $(5-6-7-8-9-10) \times I_n$
- Mounting screws and phase barriers in the scope of delivery



Poles	Rated current I_n	Overcurrent release I_r	Instant. release I_i	Article No.	Type	Packing
3	630 A	500-630 A	3150-6300	103397	Ex9M5N TM AC630 3P	1/1
3	700 A	560-700 A	3500-7000	103398	Ex9M5N TM AC700 3P	1/1
3	800 A	640-800 A	4000-8000	103399	Ex9M5N TM AC800 3P	1/1
4	630 A	500-630 A	3150-6300	103439	Ex9M5N TM AC630 4P4T	1/1
4	700 A	560-700 A	3500-7000	103440	Ex9M5N TM AC700 4P4T	1/1
4	800 A	640-800 A	4000-8000	103441	Ex9M5N TM AC800 4P4T	1/1