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## Eaton 110876

Eaton Moeller series NZM - Molded Case Circuit Breaker. Circuit-breaker, 4p, 400A, withdrawable unit, NZMN3-4-VE400-AVE

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PRODUCT NAME	Eaton Moeller series NZM molded case circuit breaker electronic
CATALOG NUMBER	110876
PRODUCT LENGTH/DEPTH	260 mm
PRODUCT HEIGHT	346 mm
PRODUCT WIDTH	230 mm
PRODUCT WEIGHT	22.964 kg
COMPLIANCES	RoHS conform
CERTIFICATIONS	IEC/EN 60947 IEC



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AMPERAGE RATING	400 A
VOLTAGE RATING	690 V - 690 V
CIRCUIT BREAKER FRAME TYPE	NZM3
FEATURES	Motor drive optional Protection unit
ACCESSORIES REQUIRED	NZM3-4-XAVS
10.10 TEMPERATURE RISE	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
10.11 SHORT-CIRCUIT RATING	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.12 ELECTROMAGNETIC COMPATIBILITY	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.13 MECHANICAL FUNCTION	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.
10.2.2 CORROSION RESISTANCE	Meets the product standard's requirements.
10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES	Meets the product standard's requirements.
10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT	Meets the product standard's requirements.
10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS	Meets the product standard's requirements.
10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION	Meets the product standard's requirements.
10.2.5 LIFTING	Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 MECHANICAL IMPACT	Does not apply, since the entire switchgear needs to be evaluated.

	eaton-circuit-breaker-let- through-current-nzm- mccb-characteristic- curve.eps
CHARACTERISTIC CURVE	eaton-circuit-breaker-nzm- mccb-characteristic-curve- 057.eps
	eaton-circuit-breaker-nzm- mccb-characteristic-curve- 017.eps
	eaton-circuit-breaker-nzm- mccb-characteristic-curve-
	<u>046.eps</u>
	eaton-circuit-breaker-nzm-mccb-dimensions-021.eps
00	eaton-circuit-breaker-nzm-

10.2.7 INSCRIPTIONS	Meets the product standard's requirements.
10.3 DEGREE OF PROTECTION OF ASSEMBLIES	Does not apply, since the entire switchgear needs to be evaluated.
10.4 CLEARANCES AND CREEPAGE DISTANCES	Meets the product standard's requirements.
10.5 PROTECTION AGAINST ELECTRIC SHOCK	Does not apply, since the entire switchgear needs to be evaluated.
10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS	Does not apply, since the entire switchgear needs to be evaluated.
10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS	ls the panel builder's responsibility.
10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS	ls the panel builder's responsibility.
10.9.2 POWER- FREQUENCY ELECTRIC STRENGTH	ls the panel builder's responsibility.
10.9.3 IMPULSE WITHSTAND VOLTAGE	ls the panel builder's responsibility.
10.9.4 TESTING OF ENCLOSURES MADE OF	Is the panel builder's
INSULATING MATERIAL	responsibility.
	responsibility.
INSULATING MATERIAL	
INSULATING MATERIAL POLLUTION DEGREE	3 Withdrawable Built-in device slide-in
POLLUTION DEGREE  MOUNTING METHOD	Withdrawable Built-in device slide-in technique (withdrawable)  Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to
INSULATING MATERIAL  POLLUTION DEGREE  MOUNTING METHOD  CLIMATIC PROOFING  EQUIPMENT HEAT DISSIPATION, CURRENT-	Withdrawable Built-in device slide-in technique (withdrawable)  Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
INSULATING MATERIAL  POLLUTION DEGREE  MOUNTING METHOD  CLIMATIC PROOFING  EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT	Withdrawable Built-in device slide-in technique (withdrawable)  Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
INSULATING MATERIAL  POLLUTION DEGREE  MOUNTING METHOD  CLIMATIC PROOFING  EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT  UTILIZATION CATEGORY	Withdrawable Built-in device slide-in technique (withdrawable)  Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78  72 W  A (IEC/EN 60947-2)  500 V AC (between auxiliary contacts and main contacts) 300 V AC (between the
INSULATING MATERIAL  POLLUTION DEGREE  MOUNTING METHOD  CLIMATIC PROOFING  EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT  UTILIZATION CATEGORY  ISOLATION  AMBIENT OPERATING	Withdrawable Built-in device slide-in technique (withdrawable)  Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78  72 W  A (IEC/EN 60947-2)  500 V AC (between auxiliary contacts and main contacts) 300 V AC (between the auxiliary contacts)
INSULATING MATERIAL  POLLUTION DEGREE  MOUNTING METHOD  CLIMATIC PROOFING  EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT  UTILIZATION CATEGORY  ISOLATION  AMBIENT OPERATING TEMPERATURE - MAX  AMBIENT OPERATING	Withdrawable Built-in device slide-in technique (withdrawable)  Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78  72 W  A (IEC/EN 60947-2)  500 V AC (between auxiliary contacts and main contacts) 300 V AC (between the auxiliary contacts)

NUMBER OF AUXILIARY CONTACTS (CHANGE- OVER CONTACTS)  NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)  NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)  PROTECTION AGAINST DIRECT CONTACT  DEGREE OF PROTECTION  DIRECTION OF INCOMING SUPPLY  ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT  CURRENT RATING OF NEUTRAL CONDUCTOR  LIFESPAN, MECHANICAL  DEGREE OF PROTECTION (IP), FRONT SIDE  DEGREE OF PROTECTION (IP) (With insulating surround) (IPO) (terminations, phase isolator and strip terminal) (IPO) (terminations, phase isolator and strip terminal) (IPO) (terminations, phase isolator and strip terminal)  NUMBER OF POLES  Max. 10 segments of 24 mm x 1 mm + 5 segments of 24 mm x 1 mm + 5 segments of 24 mm x 1 mm (2x) at box terminal  Max. 8 segments of 16 mm x 0.8 mm at box terminal  Max. 8 segments of 16 mm x 0.8 mm at rear-side connection (punched)  Max. 10 segments of 32 mm x 1 mm at rear-side connection (punched)  Max. 10 segments of 50 mm x 1 mm (2x) at rear-side width extension  LIFESPAN ELECTRICAL  LIFESPAN ELECTRICAL  DEGREE OF AUXILIARY (CONTACTS)  O  O  O  O  O  O  O  O  O  O  O  O  O	CONTACTS (CHANGE-OVER CONTACTS)  NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)  NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)  PROTECTION AGAINST DIRECT CONTACT  DEGREE OF PROTECTION  DIRECTION OF INCOMING SUPPLY  ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT  CURRENT RATING OF NEUTRAL CONDUCTOR  LIFESPAN, MECHANICAL  OVERVOLTAGE CATEGORY  DEGREE OF PROTECTION (IP, FRONT SIDE  DEGREE OF PROTECTION (TERMINATIONS)  NUMBER OF POLES  DEGREE OF PROTECTION (TERMINATI		
CONTACTS (NORMALLY CLOSED CONTACTS)  NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)  PROTECTION AGAINST DIRECT CONTACT  DEGREE OF PROTECTION  DIRECTION OF INCOMING SUPPLY  ELECTRICAL  CONNECTION TYPE OF MAIN CIRCUIT  CURRENT RATING OF NEUTRAL CONDUCTOR  LIFESPAN, MECHANICAL  OVERVOLTAGE CATEGORY  DEGREE OF PROTECTION  (IP), FRONT SIDE  DEGREE OF PROTECTION  (IP) (with insulating surround)  IP10 (tunnel terminal)  IP00 (terminations, phase isolator and strip terminal)  NUMBER OF POLES  Max. 10 segments of 24 mm x 1 mm + 5 segments of 24 mm x 1 mm  Min. 6 segments of 16 mm x 0.8 mm at box terminal  Max. 8 segments of 16 mm x 0.8 mm at box terminal  Max. 8 segments of 16 mm x 0.8 mm at box terminal  Max. 10 segments of 32 mm x 1 mm (2x) at box terminal  Min. 6 segments of 32 mm x 1 mm at rear-side connection (punched)  Max. 10 segments of 50 mm x 1 mm (2x) at rear-side width extension	CONTACTS (NORMALLY CLOSED CONTACTS)  NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)  PROTECTION AGAINST DIRECT CONTACT  DEGREE OF PROTECTION  DIRECTION OF INCOMING SUPPLY  ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT  CURRENT RATING OF NEUTRAL CONDUCTOR  LIFESPAN, MECHANICAL 15000 operations  OVERVOLTAGE CATEGORY  DEGREE OF PROTECTION (IP), FRONT SIDE 1P40 (with insulating surround) (IP), FRONT SIDE 1P10 (tunnel terminal) (TERMINATIONS)  NUMBER OF POLES FOUR-pole  Max. 10 segments of 24 mm x 1 mm + 5 segments of 24 mm x 1 mm + 5 segments of 24 mm x 1 mm (2x) at box terminal Max. 8 segments of 24 mm x 1 mm (2x) at box terminal Max. 8 segments of 24 mm x 1 mm (2x) at box terminal Max. 8 segments of 24 mm x 1 mm (2x) at box terminal Max. 8 segments of 24 mm x 1 mm (2x) at box terminal Max. 10 segments of 16 mm x 0.8 mm at box terminal Max. 8 segments of 24 mm x 1 mm (2x) at box terminal Max. 10 segments of 16 mm x 0.8 mm at box terminal Max. 8 segments of 24 mm x 1 mm (2x) at box terminal Max. 10 segments of 16 mm x 0.8 mm at rear-side connection (punched) Max. 10 segments of 32 mm x 1 mm + 5 segments of 32 mm x 1 mm x 1 mm x 1	CONTACTS (CHANGE-	0
CONTACTS (NORMALLY OPEN CONTACTS)  PROTECTION AGAINST DIRECT CONTACT  DEGREE OF PROTECTION  DIRECTION OF INCOMING SUPPLY  ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT  CURRENT RATING OF NEUTRAL CONDUCTOR  LIFESPAN, MECHANICAL 15000 operations  OVERVOLTAGE CATEGORY  DEGREE OF PROTECTION (IP), FRONT SIDE  DEGREE OF PROTECTION (TERMINATIONS)  NUMBER OF POLES  TERMINAL CAPACITY (COPPER STRIP)  CONTACTS (NORMALLY DEGREE AND AGAINST AND AGAIN	CONTACTS (NORMALLY OPEN CONTACTS)  PROTECTION AGAINST DIRECT CONTACT  DEGREE OF PROTECTION  DIRECTION OF INCOMING SUPPLY  ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT  CURRENT RATING OF NEUTRAL CONDUCTOR  LIFESPAN, MECHANICAL  DEGREE OF PROTECTION  DEGREE OF PROTECTION  (IP), FRONT SIDE  DEGREE OF PROTECTION (IP), FRONT SIDE  DEGREE OF PROTECTION (TERMINATIONS)  NUMBER OF POLES  FOUR-pole  Max. 10 segments of 24 mm x 1 mm + 5 segments of 24 mm x 1 mm + 5 segments of 24 mm x 1 mm + 5 segments of 24 mm x 1 mm (2x) at box terminal Max. 8 segments of 16 mm x 0.8 mm at rear-side connection (punched) Max. 10 segments of 32 mm x 1 mm + 5 segments of 32 mm	CONTACTS (NORMALLY	0
DIRECT CONTACT  DIRECTION AGAINS1 DIRECTION OF INCOMING SUPPLY  ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT  CURRENT RATING OF NEUTRAL CONDUCTOR  LIFESPAN, MECHANICAL  DEGREE OF PROTECTION (IP), FRONT SIDE  DEGREE OF PROTECTION (TERMINATIONS)  DEGREE OF PROTECTION (TERMINATIONS)  NUMBER OF POLES  TERMINAL CAPACITY (COPPER STRIP)  TERMINAL CAPACITY (COPPER STRIP)  DIRECTION As required  IP20 (basic degree of protection, in the operations degree of protection, in the operations area)  P20 (basic degree of protection and strip terminal)  Screw connection  200% of phase conductor  15000 operations  IP40 (with insulating surround)  IP66 (with door coupling rotary handle)  IP10 (tunnel terminal)  IP00 (terminations, phase isolator and strip terminal)  NUMBER OF POLES  Four-pole  Max. 10 segments of 24 mm x 1 mm + 5 segments of 24 mm x 1 mm (2x) at box terminal  Min. 6 segments of 16 mm x 0.8 mm at box terminal  Min. 6 segments of 16 mm x 0.8 mm at rear-side connection (punched)  Max. 10 segments of 32 mm x 1 mm + 5 segments of 32 mm x 1 mm + 5 segments of 32 mm x 1 mm at rear-side connection (punched)  10 segments of 50 mm x 1 mm at rear-side connection (punched)  10 segments of 50 mm x 1 mm (2x) at rear-side width extension	DIRECT CONTACT  DIRECT CONTACT  DIRECT CONTACT  DIRECTION OF IP20 (basic degree of protection, in the operating controls area)  DIRECTION OF INCOMING SUPPLY  ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT  CURRENT RATING OF NEUTRAL CONDUCTOR  LIFESPAN, MECHANICAL  DEGREE OF PROTECTION (IP), FRONT SIDE  DEGREE OF PROTECTION (TERMINATIONS)  DEGREE OF PROTECTION (TERMINATIONS)  DEGREE OF POLES  DEGREE OF POLES  DEGREE OF POLES  DEGREE OF PROTECTION (TERMINATIONS)  IP10 (tunnel terminal) IP00 (terminations, phase isolator and strip terminal)  NUMBER OF POLES  Four-pole  Max. 10 segments of 24 mm x 1 mm + 5 segments of 24 mm x 1 mm (2x) at box terminal  Max. 8 segments of 24 mm x 1 mm (2x) at box terminal  Min. 6 segments of 16 mm x 0.8 mm at rear-side connection (punched)  Max. 10 segments of 32 mm x 1 mm + 5 segments of 32	CONTACTS (NORMALLY	0
DEGREE OF PROTECTION  DIRECTION OF INCOMING SUPPLY  ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT  CURRENT RATING OF NEUTRAL CONDUCTOR  LIFESPAN, MECHANICAL  DEGREE OF PROTECTION (IP), FRONT SIDE  DEGREE OF PROTECTION (TERMINATIONS)  DEGREE OF PROTECTION (TERMINATIONS)  NUMBER OF POLES  TERMINAL CAPACITY (COPPER STRIP)  DEGREE OF PROTECTION (IP), 6 segments of 16 mm x 0.8 mm at rear-side connection (punched) Max. 10 segments of 32 mm x 1 mm 4 5 segments of 32 mm x 1 mm at rear-side connection (punched)  10 segments of 50 mm x 1 mm (2x) at rear-side width extension	DEGREE OF PROTECTION  DIRECTION OF INCOMING SUPPLY  ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT  CURRENT RATING OF NEUTRAL CONDUCTOR  LIFESPAN, MECHANICAL  OVERVOLTAGE CATEGORY  DEGREE OF PROTECTION (IP), FRONT SIDE  DEGREE OF PROTECTION (TERMINATIONS)  DEGREE OF PROTECTION (TERMINATIONS)  NUMBER OF POLES  Max. 10 segments of 24 mm x 1 mm + 5 segments of 24 mm x 1 mm + 5 segments of 24 mm x 1 mm (2x) at box terminal)  Min. 6 segments of 16 mm x 0.8 mm at tear-side connection (punched) Max. 10 segments of 32 mm x 1 mm + 5 segments of 32 mm x 1 mm + 5 segments of 32 mm x 1 mm + 5 segments of 32 mm x 1 mm + 5 segments of 32 mm x 1 mm + 5 segments of 32 mm x 1 mm + 5 segments of 32 mm x 1 mm + 5 segments of 32 mm x 1 mm + 5 segments of 32 mm x 1 mm + 5 segments of 32 mm x 1 mm + 5 segments		proof to DIN EN
INCOMING SUPPLY  ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT  CURRENT RATING OF NEUTRAL CONDUCTOR  LIFESPAN, MECHANICAL  OVERVOLTAGE CATEGORY  III  DEGREE OF PROTECTION (IP), FRONT SIDE  DEGREE OF PROTECTION (TERMINATIONS)  IP10 (tunnel terminal) IP00 (terminations, phase isolator and strip terminal) IP00 (terminations, phase isolator and strip terminal) IP00 (terminations of 24 mm x 1 mm + 5 segments of 24 mm x 1 mm Min. 6 segments of 24 mm x 1 mm Min. 6 segments of 24 mm x 1 mm (2x) at box terminal Min. 6 segments of 16 mm x 0.8 mm at tox terminal Min. 6 segments of 16 mm x 0.8 mm at rear-side connection (punched) Max. 10 segments of 32 mm x 1 mm + 5 segments of 32 mm x 1 mm at rear-side connection (punched)  10 segments of 50 mm x 1 mm (2x) at rear-side width extension	ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT  CURRENT RATING OF NEUTRAL CONDUCTOR  LIFESPAN, MECHANICAL  OVERVOLTAGE CATEGORY  III  DEGREE OF PROTECTION (IP), FRONT SIDE  IP40 (with insulating surround) IP66 (with door coupling rotary handle)  IP10 (tunnel terminal) IP00 (terminations, phase isolator and strip terminal) IP00 (terminations, phase isolator and strip terminal)  NUMBER OF POLES  Four-pole  Max. 10 segments of 24 mm x 1 mm + 5 segments of 24 mm x 1 mm Min. 6 segments of 16 mm x 0.8 mm at box terminal Max. 8 segments of 24 mm x 1 mm (2x) at box terminal Min. 6 segments of 16 mm x 0.8 mm at rear-side connection (punched) Max. 10 segments of 32 mm x 1 mm + 5 segments	DEGREE OF PROTECTION	IP20 (basic degree of protection, in the
CONNECTION TYPE OF MAIN CIRCUIT  CURRENT RATING OF NEUTRAL CONDUCTOR  LIFESPAN, MECHANICAL  OVERVOLTAGE CATEGORY  IP40 (with insulating surround) IP66 (with door coupling rotary handle)  DEGREE OF PROTECTION (TERMINATIONS)  NUMBER OF POLES  Four-pole  Max. 10 segments of 24 mm x 1 mm + 5 segments of 24 mm x 1 mm (2x) at box terminal Max. 8 segments of 16 mm x 0.8 mm at rear-side connection (punched) Max. 10 segments of 32 mm x 1 mm + 5 segments of 32 mm x 1 mm + 5 segments of 32 mm x 1 mm + 5 segments of 32 mm x 1 mm at rear-side connection (punched)  10 segments of 50 mm x 1 mm (2x) at rear-side width extension	CONNECTION TYPE OF MAIN CIRCUIT  CURRENT RATING OF NEUTRAL CONDUCTOR  LIFESPAN, MECHANICAL  OVERVOLTAGE CATEGORY  III  DEGREE OF PROTECTION (IP), FRONT SIDE  DEGREE OF PROTECTION (TERMINATIONS)  NUMBER OF POLES  Max. 10 segments of 24 mm x 1 mm + 5 segments of 24 mm x 1 mm (2x) at box terminal Max. 8 segments of 24 mm x 1 mm (2x) at box terminal Min. 6 segments of 16 mm x 0.8 mm at tox terminal Min. 6 segments of 16 mm x 0.8 mm at rear-side connection (punched) Max. 10 segments of 32 mm x 1 mm + 5 segments		As required
NEUTRAL CONDUCTOR  LIFESPAN, MECHANICAL  OVERVOLTAGE CATEGORY  IP40 (with insulating surround) IP66 (with door coupling rotary handle)  DEGREE OF PROTECTION (TERMINATIONS)  NUMBER OF POLES  Max. 10 segments of 24 mm x 1 mm + 5 segments of 24 mm x 1 mm Nin. 6 segments of 16 mm x 0.8 mm at box terminal Max. 8 segments of 24 mm x 1 mm X 0.8 mm at box terminal Min. 6 segments of 16 mm x 0.8 mm at rear-side connection (punched) Max. 10 segments of 32 mm x 1 mm + 5 segments of 32 mm x 1 mm + 5 segments of 32 mm x 1 mm + 5 segments of 32 mm x 1 mm at rear-side connection (punched)  10 segments of 50 mm x 1 mm (2x) at rear-side width extension	LIFESPAN, MECHANICAL  OVERVOLTAGE CATEGORY  III  DEGREE OF PROTECTION (IP), FRONT SIDE  IP40 (with insulating surround) IP66 (with door coupling rotary handle)  IP10 (tunnel terminal) IP00 (terminations, phase isolator and strip terminal)  NUMBER OF POLES  Max. 10 segments of 24 mm x 1 mm + 5 segments of 24 mm x 1 mm Min. 6 segments of 16 mm x 0.8 mm at box terminal Max. 8 segments of 24 mm x 1 mm (2x) at box terminal Min. 6 segments of 16 mm x 0.8 mm at rear-side connection (punched) Max. 10 segments of 32 mm x 1 mm + 5 segments  VOR POLES  TERMINAL CAPACITY (COPPER STRIP)	CONNECTION TYPE OF	Screw connection
OVERVOLTAGE CATEGORY  III  IP40 (with insulating surround) IP66 (with door coupling rotary handle)  DEGREE OF PROTECTION (TERMINATIONS)  IP10 (tunnel terminal) IP00 (terminations, phase isolator and strip terminal)  NUMBER OF POLES  Four-pole  Max. 10 segments of 24 mm x 1 mm + 5 segments of 24 mm x 1 mm Min. 6 segments of 16 mm x 0.8 mm at box terminal Max. 8 segments of 24 mm x 1 mm (2x) at box terminal Min. 6 segments of 16 mm x 0.8 mm at rear-side connection (punched) Max. 10 segments of 32 mm x 1 mm + 5 segments of 32 mm x 1 mm + 5 segments of 32 mm x 1 mm at rear-side connection (punched)  10 segments of 50 mm x 1 mm (2x) at rear-side width extension	OVERVOLTAGE CATEGORY  III  DEGREE OF PROTECTION (IP), FRONT SIDE  DEGREE OF PROTECTION (TERMINATIONS)  IP10 (tunnel terminal) IP00 (terminations, phase isolator and strip terminal) IP00 (terminations of 24 mm x 1 mm + 5 segments of 24 mm x 1 mm + 5 segments of 16 mm x 0.8 mm at box terminal Max. 8 segments of 24 mm x 1 mm (2x) at box terminal Min. 6 segments of 16 mm x 0.8 mm at rear-side connection (punched) Max. 10 segments of 32 mm x 1 mm + 5 segments		200% of phase conductor
DEGREE OF PROTECTION (IP), FRONT SIDE  DEGREE OF PROTECTION (TERMINATIONS)  NUMBER OF POLES  Four-pole  Max. 10 segments of 24 mm x 1 mm + 5 segments of 24 mm x 1 mm Nin. 6 segments of 16 mm x 0.8 mm at box terminal Max. 8 segments of 24 mm x 1 mm (2x) at box terminal Min. 6 segments of 32 mm x 1 mm + 5 segments of 32 mm x 1 mm + 5 segments of 32 mm x 1 mm + 5 segments of 32 mm x 1 mm + 5 segments of 32 mm x 1 mm + 5 segments of 32 mm x 1 mm at rear-side connection (punched)  10 segments of 50 mm x 1 mm (2x) at rear-side width extension	DEGREE OF PROTECTION (IP), FRONT SIDE  DEGREE OF PROTECTION (TERMINATIONS)  NUMBER OF POLES  Max. 10 segments of 24 mm x 1 mm + 5 segments of 24 mm x 1 mm Min. 6 segments of 16 mm x 0.8 mm at box terminal Max. 8 segments of 24 mm x 1 mm (2x) at box terminal Min. 6 segments of 16 mm x 0.8 mm at rear-side connection (punched) Max. 10 segments of 32 mm x 1 mm + 5 segments	LIFESPAN, MECHANICAL	15000 operations
DEGREE OF PROTECTION (IP), FRONT SIDE  DEGREE OF PROTECTION (TERMINATIONS)  NUMBER OF POLES  Four-pole  Max. 10 segments of 24 mm x 1 mm + 5 segments of 24 mm x 1 mm (2x) at box terminal  Min. 6 segments of 16 mm x 0.8 mm at rear-side connection (punched)  Max. 10 segments of 32 mm x 1 mm at rear-side connection (punched)  10 segments of 50 mm x 1 mm (2x) at rear-side width extension	DEGREE OF PROTECTION (IP), FRONT SIDE  DEGREE OF PROTECTION (TERMINATIONS)  NUMBER OF POLES  Four-pole  Max. 10 segments of 24 mm x 1 mm + 5 segments of 24 mm x 1 mm Min. 6 segments of 16 mm x 0.8 mm at box terminal Max. 8 segments of 24 mm x 1 mm (2x) at box terminal Min. 6 segments of 16 mm x 0.8 mm at rear-side connection (punched) Max. 10 segments of 32 mm x 1 mm + 5 segments		III
TERMINAL CAPACITY (COPPER STRIP)  TERMINAL CAPACITY (COPPER STRIP)  TERMINAL CAPACITY (COPPER STRIP)  IP00 (terminations, phase isolator and strip terminal)  Four-pole  Max. 10 segments of 24 mm x 1 mm  Min. 6 segments of 16 mm  x 0.8 mm at box terminal  Max. 8 segments of 24 mm x 1 mm (2x) at box terminal  Min. 6 segments of 16 mm  x 0.8 mm at rear-side connection (punched)  Max. 10 segments of 32 mm x 1 mm + 5 segments of 32 mm x 1 mm + 5 segments of 32 mm x 1 mm at rear-side connection (punched)  10 segments of 50 mm x 1 mm (2x) at rear-side width extension	IPO0 (terminations, phase isolator and strip terminal)  NUMBER OF POLES  Four-pole  Max. 10 segments of 24 mm x 1 mm + 5 segments of 24 mm x 1 mm  Min. 6 segments of 16 mm x 0.8 mm at box terminal  Max. 8 segments of 24 mm x 1 mm (2x) at box terminal  Min. 6 segments of 16 mm x 0.8 mm at rear-side connection (punched)  Max. 10 segments of 32 mm x 1 mm + 5 segments		surround) IP66 (with door coupling
Max. 10 segments of 24 mm x 1 mm + 5 segments of 24 mm x 1 mm Min. 6 segments of 16 mm x 0.8 mm at box terminal Max. 8 segments of 24 mm x 1 mm (2x) at box terminal Min. 6 segments of 16 mm x 0.8 mm at rear-side connection (punched) Max. 10 segments of 32 mm x 1 mm + 5 segments of 32 mm x 1 mm at rear- side connection (punched)  10 segments of 50 mm x 1 mm (2x) at rear-side width extension	Max. 10 segments of 24 mm x 1 mm + 5 segments of 24 mm x 1 mm Min. 6 segments of 16 mm x 0.8 mm at box terminal Max. 8 segments of 24 mm x 1 mm (2x) at box terminal Min. 6 segments of 16 mm x 0.8 mm at rear-side connection (punched) Max. 10 segments of 32 mm x 1 mm + 5 segments		IP00 (terminations, phase
mm x 1 mm + 5 segments of 24 mm x 1 mm Min. 6 segments of 16 mm x 0.8 mm at box terminal Max. 8 segments of 24 mm x 1 mm (2x) at box terminal Min. 6 segments of 16 mm x 0.8 mm at rear-side connection (punched) Max. 10 segments of 32 mm x 1 mm + 5 segments of 32 mm x 1 mm at rear- side connection (punched)  10 segments of 50 mm x 1 mm (2x) at rear-side width extension	mm x 1 mm + 5 segments of 24 mm x 1 mm Min. 6 segments of 16 mm x 0.8 mm at box terminal Max. 8 segments of 24 mm x 1 mm (2x) at box terminal Min. 6 segments of 16 mm x 0.8 mm at rear-side connection (punched) Max. 10 segments of 32 mm x 1 mm + 5 segments	NUMBER OF POLES	Four-pole
LIFFSPAN FLECTRICAL 5000 operations at 415 V	10 segments of 50 mm x 1 mm (2x) at rear-side width		mm x 1 mm + 5 segments of 24 mm x 1 mm Min. 6 segments of 16 mm x 0.8 mm at box terminal Max. 8 segments of 24 mm x 1 mm (2x) at box terminal Min. 6 segments of 16 mm x 0.8 mm at rear-side connection (punched) Max. 10 segments of 32 mm x 1 mm + 5 segments of 32 mm x 1 mm at rear- side connection (punched)  10 segments of 50 mm x 1 mm (2x) at rear-side width
	LIFESPAN, ELECTRICAL 5000 operations at 415 V	LIFESPAN FI FCTRICAI	

	AC-1 3000 operations at 690 V AC-1 5000 operations at 400 V AC-1 2000 operations at 415 V AC-3 2000 operations at 400 V AC-3 2000 operations at 690 V AC-3
FUNCTIONS	Systems, cable, selectivity and generator protection
ТҮРЕ	Circuit breaker
SPECIAL FEATURES	<ul> <li>Maximum back-up fuse, if the expected short-circuit currents at the installation location exceed the switching capacity of the circuit breaker (Rated short-circuit breaking capacity lcn)</li> <li>R.m.s. value measurement and "thermal memory"</li> <li>Adjustable time delay setting to overcome current peaks tr at 6 x lr also infinity (without overload releases)</li> <li>Adjustable delay time tsd</li> <li>i²t constant function: switchable</li> <li>Rated current = rated uninterrupted current: 400 A</li> <li>Terminal capacity hint: Up to 240 mm² can be connected depending on the cable manufacturer.</li> </ul>
APPLICATION	Use in unearthed supply systems at 690 V
SHOCK RESISTANCE	20 g (half-sinusoidal shock 20 ms)

POSITION OF CONNECTION FOR MAIN CURRENT CIRCUIT	Front side
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	400 A
RELEASE SYSTEM	Electronic release
SHORT-CIRCUIT TOTAL BREAKTIME	< 10 ms
RATED SHORT-TIME WITHSTAND CURRENT (T = 0.3 S)	3.3 kA
RATED SHORT-TIME WITHSTAND CURRENT (T = 1 S)	3.3 kA
SHORT-CIRCUIT RELEASE DELAYED SETTING - MAX	4000 A
SHORT-CIRCUIT RELEASE DELAYED SETTING - MIN	400 A
SHORT-CIRCUIT RELEASE NON-DELAYED SETTING - MAX	4400 A
SHORT-CIRCUIT RELEASE NON-DELAYED SETTING - MIN	800 A
TERMINAL CAPACITY (CONTROL CABLE)	0.75 mm <sup>2</sup> - 1.5 mm <sup>2</sup> (2x) 0.75 mm <sup>2</sup> - 2.5 mm <sup>2</sup> (1x)
TERMINAL CAPACITY (COPPER BUSBAR)	Max. 10 mm x 50 mm (2x) at rear-side width extension M10 at rear-side screw connection Max. 30 mm x 10 mm + 30 mm x 5 mm direct at switch rear-side connection Min. 20 mm x 5 mm direct at switch rear-side connection
TERMINAL CAPACITY (COPPER SOLID CONDUCTOR/CABLE)	16 mm² (2x) at box terminal 300 mm² (2x) at rear-side width extension 16 mm² (1x) direct at switch rear-side connection 16 mm² (1x) at tunnel terminal 16 mm² (2x) direct at switch rear-side connection
TERMINAL CAPACITY (ALUMINUM SOLID CONDUCTOR/CABLE)	16 mm² (1x) at tunnel terminal

TERMINAL CAPACITY (COPPER STRANDED CONDUCTOR/CABLE)	25 mm² - 240 mm² (1x) direct at switch rear-side connection 16 mm² - 185 mm² (1x) at 1-hole tunnel terminal 25 mm² - 240 mm² (2x) direct at switch rear-side connection 35 mm² - 240 mm² (1x) at box terminal 25 mm² - 120 mm² (2x) at box terminal
TERMINAL CAPACITY (ALUMINUM STRANDED CONDUCTOR/CABLE)	50 mm <sup>2</sup> - 240 mm <sup>2</sup> (1x) at 2-hole tunnel terminal 25 mm <sup>2</sup> - 185 mm <sup>2</sup> (1x) at tunnel terminal 50 mm <sup>2</sup> - 240 mm <sup>2</sup> (2x) at 2-hole tunnel terminal
HANDLE TYPE	Rocker lever
SHORT DELAY CURRENT SETTING (ISD) - MAX	4000 A
SHORT DELAY CURRENT SETTING (ISD) - MIN	400 A
INSTANTANEOUS CURRENT SETTING (II) - MAX	4400 A
INSTANTANEOUS CURRENT SETTING (II) - MIN	800 A
NUMBER OF OPERATIONS PER HOUR - MAX	60
OVERLOAD CURRENT SETTING (IR) - MAX	400 A
OVERLOAD CURRENT SETTING (IR) - MIN	200 A
OVERLOAD CURRENT SETTING (IR)	200 A - 400 A
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 230 V, 50/60 HZ	85 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 400/415 V, 50/60 HZ	50 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 440 V, 50/60 HZ	35 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 525 V, 50/60 HZ	13 kA

RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 690 V, 50/60 HZ	5 kA
RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 400/415 V, 50/60 HZ	105 kA
RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 440 V, 50/60 HZ	74 kA
RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 525 V, 50/60 HZ	53 kA
RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 690 V, 50/60 HZ	40 kA
STANDARD TERMINALS	Screw terminal
STANDARD TERMINALS  OPTIONAL TERMINALS	Screw terminal  Box terminal. Connection on rear. Tunnel terminal
	Box terminal. Connection
OPTIONAL TERMINALS  RATED SHORT-CIRCUIT MAKING CAPACITY ICM	Box terminal. Connection on rear. Tunnel terminal
OPTIONAL TERMINALS  RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 240 V, 50/60 HZ  RATED IMPULSE WITHSTAND VOLTAGE (UIMP) AT AUXILIARY	Box terminal. Connection on rear. Tunnel terminal  187 kA

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
00:



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