

< **DIGITAL NZM MOLDED CASE CIRCUIT BREAKER**

192180



Overview

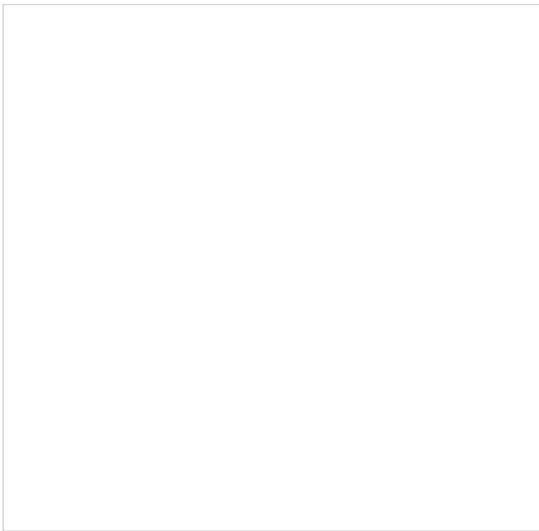


Specifications



Resources

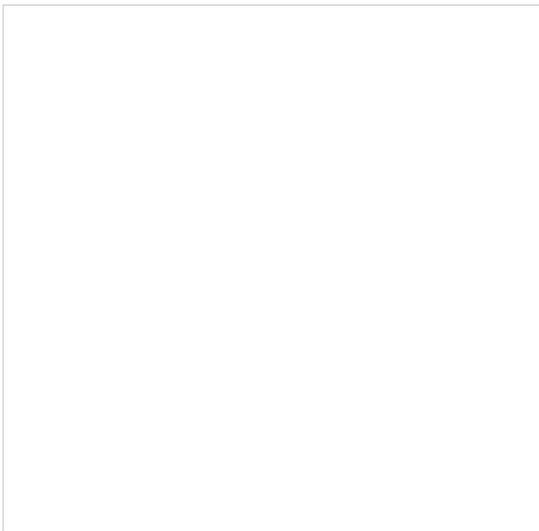
How to

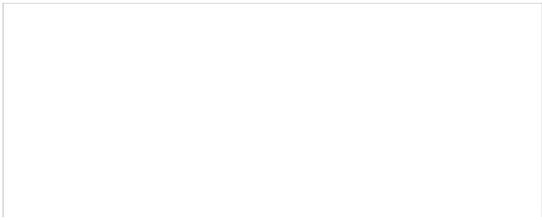


192180

Eaton Moeller series NZM - Molded Case Circuit Breaker, 1, 250A, 3p, Screw terminal, plug-in technology, H...

[Contact me about this product](#)





Designed to work together

Discover other Eaton products and accessories built to enhance this product.

259832

Eaton Moeller series NZM - Molded Case Circuit Breaker. Remote operator, 208-240VAC, for size 2

285557

Eaton Moeller series NZM - Molded Case Circuit Breaker. Earth-leakage circuit-breaker 0, 03-5 A

259763

Eaton Moeller series NZM - Molded Case Circuit Breaker. Shunt release, 208-240VAC/DC, 2/3

115391

Eaton Moeller series NZM - Molded Case Circuit Breaker. Remote operator, 240VAC, standard

[View more](#)

[View less](#)

GENERAL SPECIFICATIONS

General specifications >

PRODUCT NAME Eaton Moeller series NZM molded case circuit breaker

CATALOG NUMBER 192180

Technical data - electrical >

MODEL CODE NZMH2-PX250-SVE

EAN 4015081927319

Technical data - communication >

PRODUCT LENGTH/DEPTH 190 mm

PRODUCT HEIGHT 160 mm

Technical data - mechanical >

PRODUCT WIDTH 115 mm

PRODUCT WEIGHT 2.4 kg

COMPLIANCES RoHS conform

CERTIFICATIONS	IEC/EN 60947 IEC
-----------------------	---------------------

TECHNICAL DATA - ELECTRICAL

VOLTAGE RATING	690 V - 690 V
RATED IMPULSE WITHSTAND VOLTAGE (UIMP) AT AUXILIARY CONTACTS	6000 V
RATED IMPULSE WITHSTAND VOLTAGE (UIMP) AT MAIN CONTACTS	8000 V
RATED SHORT-TIME WITHSTAND CURRENT (T= 0.3 S)	1.9 kA
RATED SHORT-TIME WITHSTAND CURRENT (T= 1 S)	1.9 kA
AMPERAGE RATING	250 A
INSTANTANEOUS CURRENT SETTING (II) - MIN	2 A
INSTANTANEOUS CURRENT SETTING (II) - MAX	12 A
OVERLOAD CURRENT SETTING (IR) - MIN	100 A
OVERLOAD CURRENT SETTING (IR) - MAX	250 A
SHORT DELAY CURRENT SETTING (ISD) - MIN	2 A
SHORT DELAY CURRENT SETTING (ISD) - MAX	10 A
SHORT-CIRCUIT RELEASE DELAYED SETTING - MIN	200 A
SHORT-CIRCUIT RELEASE DELAYED SETTING - MAX	2500 A
SHORT-CIRCUIT RELEASE NON-DELAYED SETTING - MIN	500 A
SHORT-CIRCUIT RELEASE NON-DELAYED SETTING - MAX	3000 A
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 230 V, 50/60 HZ	150 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 400/415 V, 50/60 HZ	150 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 440 V, 50/60 HZ	130 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 525 V, 50/60 HZ	37.5 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 240 V, 50/60 HZ	330 kA

RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 400/415 V, 50/60 HZ	330 kA
RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 440 V, 50/60 HZ	286 kA
RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 525 V, 50/60 HZ	105 kA
RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 690 V, 50/60 HZ	40 kA
SHORT-CIRCUIT TOTAL BREAKTIME	< 10 ms
ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	Other
ISOLATION	500 V AC (between auxiliary contacts and main contacts) 300 V AC (between the auxiliary contacts)
NUMBER OF OPERATIONS PER HOUR - MAX	120
HANDLE TYPE	Rocker lever
UTILIZATION CATEGORY	A (IEC/EN 60947-2)
OVERVOLTAGE CATEGORY	III
POLLUTION DEGREE	3
LIFESPAN, ELECTRICAL	10000 operations at 400 V AC-1 10000 operations at 415 V AC-1 7500 operations at 690 V AC-1
DIRECTION OF INCOMING SUPPLY	As required

TECHNICAL DATA - COMMUNICATION

RATED IMPULSE WITHSTAND VOLTAGE (UIMP) AT AUXILIARY CONTACTS	6000 V
RATED IMPULSE WITHSTAND VOLTAGE (UIMP) AT MAIN CONTACTS	8000 V
RATED SHORT-TIME WITHSTAND CURRENT (T= 0.3 S)	1.9 kA
RATED SHORT-TIME WITHSTAND CURRENT (T= 1 S)	1.9 kA
AMPERAGE RATING	250 A
INSTANTANEOUS CURRENT SETTING (II) - MIN	2 A
INSTANTANEOUS CURRENT SETTING (II) - MAX	12 A
OVERLOAD CURRENT SETTING (IR) - MIN	100 A
OVERLOAD CURRENT SETTING (IR) - MAX	250 A
SHORT DELAY CURRENT SETTING (ISD) - MIN	2 A
SHORT DELAY CURRENT SETTING (ISD) - MAX	10 A

SHORT-CIRCUIT RELEASE DELAYED SETTING - MIN	200 A
SHORT-CIRCUIT RELEASE DELAYED SETTING - MAX	2500 A
SHORT-CIRCUIT RELEASE NON-DELAYED SETTING - MIN	500 A
SHORT-CIRCUIT RELEASE NON-DELAYED SETTING - MAX	3000 A
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 230 V, 50/60 HZ	150 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 400/415 V, 50/60 HZ	150 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 440 V, 50/60 HZ	130 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 525 V, 50/60 HZ	37.5 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 240 V, 50/60 HZ	330 kA
RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 400/415 V, 50/60 HZ	330 kA
RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 440 V, 50/60 HZ	286 kA
RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 525 V, 50/60 HZ	105 kA
RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 690 V, 50/60 HZ	40 kA
SHORT-CIRCUIT TOTAL BREAKTIME	< 10 ms
ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	Other
ISOLATION	500 V AC (between auxiliary contacts and main contacts) 300 V AC (between the auxiliary contacts)
NUMBER OF OPERATIONS PER HOUR - MAX	120
HANDLE TYPE	Rocker lever
UTILIZATION CATEGORY	A (IEC/EN 60947-2)
OVERVOLTAGE CATEGORY	III
POLLUTION DEGREE	3
LIFESPAN, ELECTRICAL	10000 operations at 400 V AC-1 10000 operations at 415 V AC-1 7500 operations at 690 V AC-1
DIRECTION OF INCOMING SUPPLY	As required

TECHNICAL DATA - MECHANICAL

MOUNTING METHOD	Built-in device plug-in technique Plug-in unit
DEGREE OF PROTECTION	IP20 (basic degree of protection, in the operating condition) IP20
DEGREE OF PROTECTION (IP), FRONT SIDE	IP40 (with insulating surround) IP66 (with door coupling rotary handle)
DEGREE OF PROTECTION (TERMINATIONS)	IP00 (terminations, phase isolator and strip terminal) IP10 (tunnel terminal)
PROTECTION AGAINST DIRECT CONTACT	Finger and back-of-hand proof to DIN EN 50274/VDI 4110
SHOCK RESISTANCE	20 g (halfsinusoidal shock 20 ms)
NUMBER OF AUXILIARY CONTACTS (CHANGE-OVER CONTACTS)	0
NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	0
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	0
POSITION OF CONNECTION FOR MAIN CURRENT CIRCUIT	Connection at separate chassis part
CLIMATIC PROOFING	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
LIFESPAN, MECHANICAL	20000 operations

[Authenticate Product](#)

[Brochures](#)

[Catalogs](#)

[Characteristic curve](#)

[Drawings](#)

[Installation instructions](#)

[Installation videos](#)



How to buy

[Digital NZM Molded Case Circuit Breaker](#) > 192180



Eaton is an intelligent power management company dedicated to improving the quality of life and protecting the environment for people everywhere. We are guided by our commitment to do business right, to operate sustainably and to help our customers manage power — today and well into the future. By capitalizing on the global growth trends of electrification and digitalization, we're accelerating the planet's transition to renewable energy and helping to solve the world's most urgent power management challenges.