Specifications



Photo is representative

Eaton 285557

Eaton Moeller series NZM Earth-leakage circuit-breaker 0,03-5 A

General specifications	
PRODUCT NAME	Eaton Moeller series NZM Earth leakage relay
CATALOG NUMBER	285557
MODEL CODE	PFR-5
EAN	4015082855574
PRODUCT LENGTH/DEPTH	80 mm
PRODUCT HEIGHT	45 mm
PRODUCT WIDTH	95 mm
PRODUCT WEIGHT	0.192 kg
COMPLIANCES	IEC RoHS conform
CERTIFICATIONS	IEC 1009 IEC 1008 IEC 755 IEC/EN 60947-2

Additional information

FUNCTIONS	Delay adjustable

Delivery program

FEATURES	Sealable, setting buttons 1 integrated changeover contact (relay contact)
FRAME	45 mm NZM1/2/3/4
SPECIAL FEATURES	• Adjustable fault current and delay time • Fault current early warning by flashing, red LED • Pulse-current sensitive • Integrated auxiliary contact (1 C/O) • Ring-type transformer must also be ordered • not UL/CSA approved
TYPE	• Accessory • Residual current relays • Voltage release

Design verification as per IEC/EN 61439

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.
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	Is the panel builder's responsibility.
10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS	Is the panel builder's responsibility.

Design verification as per IEC/EN 61439 - technical data

AMBIENT OPERATING TEMPERATURE - MAX	50 °C
AMBIENT OPERATING TEMPERATURE - MIN	-10 °C

10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH	Is the panel builder's responsibility.
10.9.3 IMPULSE WITHSTAND VOLTAGE	Is the panel builder's responsibility.
10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL	Is the panel builder's responsibility.

Technical data - electrical

CURRENT RATING OF RELAY CONTACT	6 A
DELAY TIME	0.02, 0.1, 0.3, 0.5, 1, 3, 5 ms
POWER CONSUMPTION	3 W
POWER ON-DELAY TIME - MAX	5000 ms
POWER ON-DELAY TIME - MIN	5000 ms
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX	276 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN	184 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX	276 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN	184 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN	0 V
RATED FAULT CURRENT - MAX	5 A
RATED FAULT CURRENT - MIN	0.03 A
RATED OPERATING VOLTAGE (UE) - MAX	276 V
SENSITIVITY TYPE	Pulse current sensitive, type A
VOLTAGE RATING OF RELAY CONTACT	250 V AC / 100 V DC

Technical data - mechanical

DEVICE WIDTH	85 mm
MOUNTING METHOD	Snap fixing, top-hat rail DIN 46277, IEC/EN 60715
SPECIAL FEATURES	• Adjustable fault current and delay time • Fault current early warning by flashing, red LED • Pulse-current sensitive • Integrated auxiliary contact (1 C/O) • Ring-type transformer must also be ordered • not UL/CSA approved
TERMINAL PROTECTION	Finger/back-of-hand proof to BGV A2, VDE 106 part 100

Technical data - mechanical - terminals

TERMINAL CAPACITY (SOLID/FLEXIBLE CONDUCTOR)	0.75 mm² - 1.5 mm² (2x) with ferrules 0.75 mm² - 2.5 mm² (2x) solid, 0.75 mm² - 1.5 mm² (2x) flexible/with ferrules
TERMINALS (TOP AND BOTTOM)	Box terminals

Resources

BROCHURES	eaton-feerum-the-whole-grain-solution-success-story-en-us.pdf eaton-digital-nzm-brochure-br013003en-en-us.pdf
CATALOGUES	eaton-digital-nzm-catalog-ca013003en-en-us.pdf
DRAWINGS	eaton-circuit-breaker-nzm-mccb-dimensions-034.eps

	eaton-circuit-breaker-current-nzm-mccb-3d-drawing.eps
ECAD MODEL	ETN.PFR-5
INSTALLATION VIDEOS	The new digital NZM Range Introduction of the new digital circuit breaker NZM
MCAD MODEL	eaton-mccb-rcd-elm-mcad-drawings-pfr-5.dwg pfr_5.stp
TECHNICAL DATA SHEETS	eaton-nzm-technical-information-sheet

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	

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