Specifications

Photo is representative

Eaton 235461

Eaton Moeller series xPole - PFIM Type AC, A, U, R RCCB. Residual current circuit breaker (RCCB), 40A, 2p, 300mA, type S

General specifications	
PRODUCT NAME	Eaton Moeller series xPole - PFIM Type AC, A, U, R RCCB
CATALOG NUMBER	235461
EAN	4015082354619
PRODUCT LENGTH/DEPTH	76 mm
PRODUCT HEIGHT	80 mm
PRODUCT WIDTH	35 mm
PRODUCT WEIGHT	0.191 kg
COMPLIANCES	RoHS conform
CERTIFICATIONS	IEC/EN 61008
MODEL CODE	PFIM-40/2/03-S-MW



Delivery program

APPLICATION	 Residual current circuit breaker for residential and commercial applications xPole - Switchgear for residential and commercial applications 	
NUMBER OF POLES	Two-pole	
TRIPPING TIME	Selective switch off	
AMPERAGE RATING	40 A	
RATED SHORT-CIRCUIT STRENGTH	10 kA	
FAULT CURRENT RATING	300 mA	
SENSITIVITY TYPE	AC current sensitive	
IMPULSE WITHSTAND CURRENT	Surge-proof 5 kA	
ТҮРЕ	 PFIM Residual current circuit breakers Type S 	

Technical data - electrical	
VOLTAGE RATING	230 V AC
RATED OPERATIONAL VOLTAGE (UE) - MAX	230 V
RATED INSULATION VOLTAGE (UI)	440 V
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	4 kV
RATED FAULT CURRENT - MIN	0.3 A
RATED FAULT CURRENT - MAX	0.3 A
FREQUENCY RATING	50 Hz
SHORT-CIRCUIT RATING	63 A (max. admissible back-up fuse)
LEAKAGE CURRENT TYPE	AC
RATED RESIDUAL MAKING AND BREAKING CAPACITY	500 A
ADMISSIBLE BACK-UP FUSE OVERLOAD - MAX	25 A gG/gL
RATED SHORT-TIME WITHSTAND CURRENT (ICW)	10 kA
SURGE CURRENT CAPACITY	5 kA
TEST CIRCUIT RANGE	196 V AC - 264 V AC
POLLUTION DEGREE	2
LIFESPAN, ELECTRICAL	4000 operations
-	

Technical data - mechanical

FRAME	45 mm
WIDTH IN NUMBER OF MODULAR SPACINGS	2
BUILT-IN WIDTH (NUMBER OF UNITS)	35 mm (2 SU)
BUILT-IN DEPTH	70.5 mm
MOUNTING METHOD	DIN rail Quick attachment with 2 latch positions for DIN-rail IEC/EN 60715
DEGREE OF PROTECTION	IP20 IP20, IP40 with suitable enclosure
TERMINALS (TOP AND BOTTOM)	Open mouthed/lift terminals
TERMINAL CAPACITY (SOLID WIRE)	1.5 mm² - 35 mm²
CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MIN	1.5 mm²
CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MAX	35 mm²
TERMINAL CAPACITY (STRANDED CABLE)	16 mm² (2x)
CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MIN	1.5 mm²
CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MAX	16 mm²
TERMINAL PROTECTION	Finger and hand touch safe, DGUV VS3, EN 50274
BUSBAR MATERIAL THICKNESS	0.8 mm - 2 mm
LIFESPAN, MECHANICAL	20000 operations
PERMITTED STORAGE AND TRANSPORT TEMPERATURE - MIN	-35 °C
PERMITTED STORAGE AND TRANSPORT TEMPERATURE - MAX	60 °C
CLIMATIC PROOFING	25-55 °C / 90-95% relative

Design verification as per IEC/EN 61439 technical data **RATED OPERATIONAL CURRENT FOR SPECIFIED** 40 A **HEAT DISSIPATION (IN) HEAT DISSIPATION PER** 0 W POLE, CURRENT-DEPENDENT **EQUIPMENT HEAT** DISSIPATION, CURRENT-5.4 W DEPENDENT **STATIC HEAT DISSIPATION, NON-**0 W CURRENT-DEPENDENT **HEAT DISSIPATION** 0 W CAPACITY AMBIENT OPERATING -25 °C **TEMPERATURE - MIN** AMBIENT OPERATING 60 °C **TEMPERATURE - MAX**

humidity according to IEC	2
60068-2	

Design verification as	s per IEC/EN 61439	Additional information	on
10.2.2 CORROSION	Meets the product	ACCESSORIES REQUIRED	Z-HK 248432
RESISTANCE 10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES	standard's requirements. Meets the product standard's requirements.	FEATURES	Additional equipment possible Selective protection Residual current circuit breaker
10.2.3.2 VERIFICATION OF RESISTANCE OF	Meets the product	FITTED WITH:	Interlocking device
INSULATING MATERIALS TO NORMAL HEAT	standard's requirements.		Maximum
10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS	Meets the product standard's requirements.		operating temperature is 60 °C: Starting at 40 °C, the max. permissible continuous current
10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION	Meets the product standard's requirements.	SPECIAL FEATURES	decreases by 2.5% for every 1 °C • Tripping signal
10.2.5 LIFTING	Does not apply, since the entire switchgear needs to be evaluated.		contact for subsequent installation Z-NHK
10.2.6 MECHANICAL IMPACT	Does not apply, since the entire switchgear needs to be evaluated.		248434 PFIM
10.2.7 INSCRIPTIONS	Meets the product standard's requirements.		Type S Residual current circuit breakers
10.3 DEGREE OF PROTECTION OF ASSEMBLIES	Does not apply, since the entire switchgear needs to be evaluated.	USED WITH	KLV-TC-2 276240 (Compact enclosure) Z-FW/LP 248296 (Remote control and automatic switching device) Z-RC/AK-2MU 285385
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.		(sealing cover set)
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 VOI TAGE	ls the panel builder's responsibility		

WITHSTAND VOLTAGE

ENCLOSURES MADE OF

10.9.4 TESTING OF

responsibility.

responsibility.

Is the panel builder's

INSULATING MATERIAL

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.

Resources	
APPLICATION NOTES	<u>eaton-rcd-application-</u> guide-br019003en-en- us.pdf
CATALOGUES	<u>eaton-xpole-pfim-u-rccb-</u> <u>catalog-ca019028en-en-</u> <u>us.pdf</u>
	<u>eaton-xpole-pfim-x-rccb-</u> <u>catalog-ca019029en-en-</u> <u>us.pdf</u>
DECLARATIONS OF CONFORMITY	DA-DC-03_PFI
ECAD MODEL	ETN.PFIM-40_2_03-S- MW.edz
INSTALLATION INSTRUCTIONS	<u>eaton-rccb-rcbo-g9-</u> <u>il019140zu.pdf</u>
MCAD MODEL	eaton-residual-current- circuit-breakers-3d- models-pfi-2p.stp eaton-residual-current- circuit broakers drawings
	<u>circuit-breakers-drawings-</u> pfi-2p.dwg

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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