DATASHEET - PKPM3-10/3/C/01-LI/A

RCD/MCB, 10A, 100mA, miniature circuit-breaker trip curve C, 3 p, residual current circuit-breaker trip characteristic: A

Powering Business Worldwide™

Part no. PKPM3-10/3/C/01-Li/A
Catalog No. 196653

Technical data

Electrical

Types conform to			IEC/EN 61009
Current test marks			As per inscription
Tripping		s…	non-delayed
Rated frequency	f	Hz	50
Rated fault currents	$I_{\Delta n}$	mA	30, 100
Rated non-tripping current	IΔno		0,5
Rated impulse withstand voltage	U_{imp}	kV	4 (1.2/50µs)
Max. admissible back-up fuse			
Short-circuit	gG/gL	A	100
Characteristic			C
Selectivity Class			3
lifespan			
Electrical	Operations		≧ 2000
Mechanical	Operations		≧ 10000

Mechanical

Standard front dimension		mm	45
Device height		mm	80
Built-in width		mm	70 (4TE)
Mounting			Tristable slide catch enables removal from existing combination.
Degree of Protection			IP20, IP40 (when fitted)
Terminals top and bottom			Twin-purpose terminals
Terminal protection			finger and hand touch safe, DGUV VS3, EN 50274
Terminal capacity			rigid conductors 1 x (1 - 25) mm^2
Tightening torque of fixing screws		N/m	2 - 2.4
Thickness of busbar material		mm	0.8 - 2
Admissible ambient temperature range		°C	-25 - +40
Permissible storage and transport temperatures		°C	-35 - +60
Climatic proofing			gemäß IEC/EN 61009

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	I_n	A	10
Heat dissipation per pole, current-dependent	P_{vid}	W	0
Static heat dissipation, non-current-dependent	P_{vs}	W	0
Heat dissipation capacity	P_{diss}	W	0
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	40
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
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 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric 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.
10.9 Insulation properties			
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.
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.

Technical data ETIM 7.0

Circuit breakers and fuses (EG000020) / Earth leakage circuit breaker (EC000905)			
Electric engineering, automation, process control engineering / Electrical installation, device / Residual current protection system / MCB/RCCB combination (ecl@ss10.0.1-27-14-22-07 [AFZ810015])			
Number of poles (total)			3
Number of protected poles			3
Rated voltage		V	230
Rated insulation voltage Ui		V	500
Rated impulse withstand voltage Uimp		kV	4
Rated current		A	10
Rated fault current		A	0.1
Leakage current type			A
Current limiting class			3
Rated short-circuit breaking capacity acc. EN 61009		kA	10
Rated short-circuit breaking capacity IEC 60947-2		kA	0
Rated short-circuit breaking capacity Icn acc. EN 61009-1		kA	10
Disconnection characteristic			Short-time delayed
Surge current capacity		kA	3
Voltage type			AC
Frequency			50 Hz
Release characteristic			C
Concurrently switching N-neutral			No
With interlocking device			No
Over voltage category			3
Pollution degree			2
Ambient temperature during operating		°C	-25 - 40
Width in number of modular spacings			4
Built-in depth		mm	69.5
Suitable for flush-mounted installation			No
Anti-nuisance tripping version			Yes
Degree of protection (IP)			IP20
Connectable conductor cross section solid-core		mm^2	1 - 25
Connectable conductor cross section multi-wired		mm^2	1 - 25