

RCD/MCB combination switch, 40A, 100mA, miniature circuit-br. type C trip characteristic, 1-ph+N, residual current circuit-br. trip characteristic: AC



Part no. PKNM-40/1N/C/01-MW Article no. 236335

Similar to illustration

Design verification as per IEC/EN 61439

Design verification as per IEC/EN 01439			
Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	40
Heat dissipation per pole, current-dependent	P _{vid}	W	0
Equipment heat dissipation, current-dependent	P _{vid}	W	8.2
Static heat dissipation, non-current-dependent	P _{vs}	W	0
Heat dissipation capacity	P _{diss}	W	0
Operating ambient temperature min.	4.00	°C	-25
Operating ambient temperature max.		°C	40
			0
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 6.0

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@ss8.1-27-14-22-07 [AFZ810012])

[AFZ810012])			
Number of poles (total)			2
Number of protected poles			1
Nominal rated voltage	,	V	230
Nominal rated current		Α	40

Leakage current type Current limiting class Rated short-circuit breaking capacity EN 60898 Rated short-circuit breaking capacity IEC 60947-2 Release characteristic Currently switching N-neutral Over voltage category Pollution degree Width in number of modular spacings Suitt-in depth Suitable for flush-mounted installation Degree of protection (IP) Surge current capacity Voltage type AC AC AC AC AC AC AC AC AC A			
Current limiting class Rated short-circuit breaking capacity EN 60898 Rated short-circuit breaking capacity IEC 60947-2 Release characteristic Concurrently switching N-neutral Over voltage category Pollution degree Width in number of modular spacings Built-in depth Suitable for flush-mounted installation Degree of protection (IP) Surge current capacity Ver degree of protection (IP) Surge current capacity Ver degree of protection (IP) Surge current capacity A Degree of protection (IP) Surge current capacity A Degree of protection (IP) Surge current capacity A C C Concurrent imiting class A Degree of Protection (IP) A Degree of Protection (IP) A C C Concurrent imiting class A Degree of Protection (IP) A Degree of Protectio	Rated fault current	Α	0.1
Rated short-circuit breaking capacity EN 60898 kA 0 Rated short-circuit breaking capacity IEC 60947-2 kA 0 Release characteristic C Concurrently switching N-neutral Ves Pollution degree Pollution degree Pollution of modular spacings mm 70 Suitable for flush-mounted installation Polygree of protection (IP) Foregree of protection (IP) Foregree Concurrent capacity Polygree Concurrent Concu	Leakage current type		AC
Rated short-circuit breaking capacity IEC 60947-2 kA 0 Frequency 50 Hz Release characteristic C Concurrently switching N-neutral Yes Over voltage category 3 Pollution degree 2 Width in number of modular spacings 2 Built-in depth mm 70 Suitable for flush-mounted installation No Degree of protection (IP) IP20 Surge current capacity kA 0.25 Woltage type A C	Current limiting class		3
Frequency Release characteristic Concurrently switching N-neutral Over voltage category Pollution degree Width in number of modular spacings Built-in depth Suitable for flush-mounted installation Degree of protection (IP) Surge current capacity Voltage type 50 Hz C C C C C C C C C C C C C C C C C C C	Rated short-circuit breaking capacity EN 60898	kA	10
Release characteristic Concurrently switching N-neutral Over voltage category Pollution degree Pollution deg	Rated short-circuit breaking capacity IEC 60947-2	kA	0
Concurrently switching N-neutral Over voltage category Pollution degree Pollution	Frequency		50 Hz
Over voltage category Over voltage category Over voltage category Over voltage category 2 Width in number of modular spacings Built-in depth mm 70 Suitable for flush-mounted installation Over voltage of protection (IP) Surge current capacity Voltage type 3 Control of the protection of	Release characteristic		С
Pollution degree 2 Width in number of modular spacings 2 Built-in depth mm 70 Suitable for flush-mounted installation No Degree of protection (IP) IP20 Surge current capacity kA 0.25 Voltage type AC	Concurrently switching N-neutral		Yes
Width in number of modular spacings Built-in depth mm 70 Suitable for flush-mounted installation Degree of protection (IP) Surge current capacity Voltage type 2 No AC	Over voltage category		3
Built-in depth Suitable for flush-mounted installation Degree of protection (IP) Surge current capacity Voltage type The suppose the	Pollution degree		2
Suitable for flush-mounted installation Degree of protection (IP) Surge current capacity Voltage type No IP20 AC	Width in number of modular spacings		2
Degree of protection (IP) Surge current capacity kA 0.25 Voltage type AC	Built-in depth	mm	70
Surge current capacity kA 0.25 Voltage type AC	Suitable for flush-mounted installation		No
Voltage type AC	Degree of protection (IP)		IP20
· //	Surge current capacity	kA	0.25
Antinuisance tripping version No	Voltage type		AC
	Antinuisance tripping version		No