# DATASHEET - PKNM-10/1N/B/003-MW

Part no.

Catalog No.



RCD/MCB combination, 10 A, 30 mA, MCB trip characteristic: B, 1p+N, RCD trip characteristic: AC

PKNM-10/1N/B/003-MW

236067



Similar to illustration

### **Delivery program**

Basic function			Combined RCD/MCB devices
Number of poles			1 pole+N
Tripping characteristic			В
Application			Switchgear for residential and commercial applications
Rated current	In	А	10
Rated switching capacity according to IEC/EN 61009		kA	10
Rated fault current	$I_{\Delta N}$	А	0.03
Туре			Туре АС
Tripping		s	non-delayed
Product range			PKNM
Sensitivity			AC current sensitive
Impulse withstand current			Partly surge-proof 250 A

### **Technical data**

# **Electrical**

Sensitivity	AC current sensitive

### **Design verification as per IEC/EN 61439**

Rated operational current for specified heat dissipation       In       A       10         Heat dissipation per pole, current-dependent       Pvid       W       23         Equipment heat dissipation, current-dependent       Pvid       W       0         Static heat dissipation, non-current-dependent       Pvid       W       0         Heat dissipation capacity       Pdiss       W       0         Operating ambient temperature min.       °C       25         Operating ambient temperature max.       M       0	Design vernication as per iec/ew 01459			
Heat dissipation per pole, current-dependent         Pvid         Wei           Equipment heat dissipation, current-dependent         Pvid         Wei         2.3           Static heat dissipation, non-current-dependent         Pvid         Wei         0           Heat dissipation, non-current-dependent         Pvid         Wei         0           Operating ambient temperature min.         Pdiss         Wei         0           Operating ambient temperature max.         °C         -25         -25           Operating ambient temperature max.         °C         40         -0           10.2.5 Uringtion of thermal stability of enclosures         °C         40         -0           10.2.2 Corrosion resistance of insulating materials to normal heat         Neets the product standard's requirements.         Neets the product standard's requirements.           10.2.3.1 Verification of thermal stability of enclosures         Neets the product standard's requirements.         Neets the product standard's requirements.           10.2.3.3.1 Verification of resistance of insulating materials to abnormal heat         Neets the product standard's requirements.         Neets the product standard's requirements.           10.2.4. Resistance to ultra-violet (UV) radiation         Des not apply, since the entire switchgear needs to be evaluated.           10.2.5. Lifting         Des not apply, since the entire switchgear needs to	Technical data for design verification			
Equipment heat dissipation, current-dependentPvidWe2.3Static heat dissipation, non-current-dependentPvisWe0Heat dissipation capacityPdissWe0Operating ambient temperature min.PdissC25Operating ambient temperature max.C400EC/EN 61439 design verificationC40010.2.5 trength of materials and partsKest the product standard's requirements.Ne10.2.3.1 Verification of thermal stability of enclosuresMeets the product standard's requirements.Meets the product standard's requirements.10.2.3.2 Verification of resistance of insulating materials to normal heat and fire due to internal electric effectsMeets the product standard's requirements.10.2.3.2 Verification of resistance of insulating materials to normal heat and fire due to internal electric effectsMeets the product standard's requirements.10.2.4 Resistance to ultra-violet (UV) radiationMeets the product standard's requirements.10.2.5 LiftingDes not apply, since the entire switchgear needs to be evaluated.10.2.5 LiftingDes not apply, since the entire switchgear needs to be evaluated.10.3.Degree of protection of ASSEMBLIESDes not apply, since the entire switchgear needs to be evaluated.10.3.Degree of protection of ASSEMBLIESDes not apply, since the entire switchgear needs to be evaluated.10.4.Clearances and creepage distancesMeets the product standard's requirements.	Rated operational current for specified heat dissipation	In	А	10
Static heat dissipation concurrent-dependent         Pvs         We         0           Heat dissipation capacity         Pdiss         We         0           Operating ambient temperature min.         °C         25         20           Operating ambient temperature max.         °C         40         0           EVEN 51439 design verification         °C         40         0           10.2 Strength of materials and parts          6         0           10.2 Strength of materials and parts         Mets the product standard's requirements.         Mets the product standard's requirements.           10.2.3.1 Verification of thermal stability of enclosures         Mets the product standard's requirements.         Mets the product standard's requirements.           10.2.3.2 Verification of resistance of insulating materials to normal heat and fire due to internal electric effects         Mets 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         Mets the product standard's requirements.           10.2.4. Resistance to ultra-violet (UV) radiation         Mets the product standard's requirements.           10.2.5. Lifting         Des not apply, since the entire switchgear needs to be evaluated.           10.2.7. Inscriptions         Des not apply, since the entire switchgear needs to be evaluated.	Heat dissipation per pole, current-dependent	P <sub>vid</sub>	W	0
Heat dissipation capacity         Pdiss         W         Operating ambient temperature min.         Pdiss         C         25           Operating ambient temperature max.         C         40         0 <td>Equipment heat dissipation, current-dependent</td> <td>P<sub>vid</sub></td> <td>W</td> <td>2.3</td>	Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	2.3
Operating ambient temperature min.         or         operating ambient temperature min.         operating ambient temperature max.         operating ambient temperature ambient temperature max.         operatu	Static heat dissipation, non-current-dependent	P <sub>vs</sub>	W	0
Operating ambient temperature max.         C         40           0         0         0           EC/EN 61439 design verification         0         0           10.2 Strength of materials and parts         0         0           10.2.2 Corrosion resistance         Meets the product standard's requirements.         0           10.2.3.1 Verification of thermal stability of enclosures         Meets the product standard's requirements.         0           10.2.3.2 Verification of resistance of insulating materials to normal heat         Meets the product standard's requirements.         0           10.2.3.3 Verification of resistance of insulating materials to abnormal heat         Meets the product standard's requirements.         0           10.2.4 Resistance to ultra-violet (UV) radiation         Meets the product standard's requirements.         0           10.2.5 Lifting         Dees not apply, since the entire switchgear needs to be evaluated.         0           10.2.7 Inscriptions         Meets the product standard's requirements.         0           10.3 Degree of protection of ASSEMBLIES         Dees not apply, since the entire switchgear needs to be evaluated.         Meets the product standard's requirements.           10.4 Clearances and creepage distances         Meets the product standard's requirements.         Meets the product standard's requirements.	Heat dissipation capacity	P <sub>diss</sub>	W	0
Lephene particulationDescription10.2 Strength of materials and parts010.2.3 Corrosion resistanceMeets the product standard's requirements.10.2.3.1 Verification of thermal stability of enclosuresMeets the product standard's requirements.10.2.3.2 Verification of resistance of insulating materials to normal heat and fire due to internal electric effectsMeets the product standard's requirements.10.2.4 Resistance to ultra-violet (UV) radiationMeets the product standard's requirements.10.2.5 LiftingMeets the product standard's requirements.10.2.6 Mechanical impactMeets the product standard's requirements.10.2.7 InscriptionsMeets the product standard's requirements.10.3 Degree of protection of ASSEMBLIESMeets the product standard's requirements.10.4 Clearances and creepage distancesMeets the product standard's requirements.	Operating ambient temperature min.		°C	-25
EC/EN 61439 design verification       Image: Constant of the second of the	Operating ambient temperature max.		°C	40
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10.2.3.1 Verification of thermal stability of enclosuresImage: Constant of the product standard's requirements.10.2.3.2 Verification of resistance of insulating materials to normal heatImage: Constant of the product standard's requirements.10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effectsImage: Constant of the product standard's requirements.10.2.4 Resistance to ultra-violet (UV) radiationImage: Constant of the product standard's requirements.10.2.5 LiftingImage: Constant of the product standard's requirements.10.2.6 Mechanical impactImage: Constant of the product standard's requirements.10.2.7 InscriptionsImage: Constant of the product standard's requirements.10.3 Degree of protection of ASSEMBLIESImage: Constant of the product standard's requirements.10.4 Clearances and creepage distancesImage: Constant of the product standard's requirements.	10.2 Strength of materials and parts			
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10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effectsA mets the product standard's requirements.10.2.4 Resistance to ultra-violet (UV) radiationMeets the product standard's requirements.10.2.5 LiftingDoes not apply, since the entire switchgear needs to be evaluated.10.2.6 Mechanical impactDoes not apply, since the entire switchgear needs to be evaluated.10.2.7 InscriptionsMeets the product standard's requirements.10.3 Degree of protection of ASSEMBLIESDoes not apply, since the entire switchgear needs to be evaluated.10.4 Clearances and creepage distancesMeets the product standard's requirements.	10.2.3.1 Verification of thermal stability of enclosures			Meets the product standard's requirements.
and fire due to internal electric effectseffecteffect10.2.4 Resistance to ultra-violet (UV) radiationMeets the product standard's requirements.10.2.5 LiftingDees not apply, since the entire switchgear needs to be evaluated.10.2.6 Mechanical impactDees not apply, since the entire switchgear needs to be evaluated.10.2.7 InscriptionsMeets the product standard's requirements.10.3 Degree of protection of ASSEMBLIESDees not apply, since the entire switchgear needs to be evaluated.10.4 Clearances and creepage distancesMeets the product standard's requirements.	10.2.3.2 Verification of resistance of insulating materials to normal heat			Meets the product standard's requirements.
10.2.5 LiftingDoes not apply, since the entire switchgear needs to be evaluated.10.2.6 Mechanical impactDoes not apply, since the entire switchgear needs to be evaluated.10.2.7 InscriptionsMeets the product standard's requirements.10.3 Degree of protection of ASSEMBLIESDoes not apply, since the entire switchgear needs to be evaluated.10.4 Clearances and creepage distancesMeets the product standard's requirements.				Meets the product standard's requirements.
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.	10.2.4 Resistance to ultra-violet (UV) radiation			Meets the product standard's requirements.
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.	10.2.5 Lifting			Does not apply, since the entire switchgear needs to be evaluated.
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.	10.2.6 Mechanical impact			Does not apply, since the entire switchgear needs to be evaluated.
10.4 Clearances and creepage distances     Meets the product standard's requirements.	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.
10.5 Protection against electric shock 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.	10.6 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.	10.7 Internal electrical circuits and connections			Is the panel builder's responsibility.
10.8 Connections for external conductors Is the panel builder's responsibility.	10.8 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 8.0**

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 protected polesImage: section pole			
Acta di voltageV30Rated insulation voltage Uinp4040Rated insulation voltage UinpKV40Rated insulation voltage UinpKV40Rated insulation voltage UinpKV40Rated fault currentCA0.30Rated fault current typeG3Current timing classG3Rated short-circuit breaking capacity according to EN 61009KA0Rated short-circuit breaking capacity according to EN 61009-10KA0Rated short-circuit breaking capacity according to EN 61009-10G0Rated short-circuit breaking capacity according to EN 61009-10Uolagy0Rated short-circuit breaking capacity according to EN 61009-10G0Rated short-circuit breaking capacity according to EN 61009-10Uolagy0Rated short-circuit breaking capacity according to EN 61009-10UolagyVoltage typeSSSVoltage typeSSSRelease characteristicSSSConcurrent short-circuit breaking capacitySSSVoltage typeSSSSPollution degreeSSSSRubit in number of modular spacingsSSS<	Number of poles (total)		2
Reade insulation voltage Uinp         4           Reade insulation voltage Uinp         kV         4           Reade fault current         0.03         0.03           Reade fault current type         KA         6           Current limiting class         0         0.03           Reade short-circuit breaking capacity according to EN 61009-1         KA         0           Reade short-circuit breaking capacity according to EN 61009-1         KA         0           Disconnection characteristic         Undelayed         0.04           Surge current capacity         KA         0           Surge current capacity         KA         0           Surge current capacity         KA         0           Concurrently switching neutral conductor         KA         0           Release characteristic         Surge         0           Concurrently switching neutral conductor         KS         0           Vint introlocking device         Surge         2           Over voltage category         Caneed totttt introlocking device         2	Number of protected poles		1
Rated impulse with and voltage Uimp         KV         KV           Rated current         ID           Rated fault current         ID         ID           Lakage current type         ID         ID           Current limiting class         ID         ID           Rated short-circuit breaking capacity according to EN 61009         ID         ID           Rated short-circuit breaking capacity according to EN 61009-10         ID         ID           Strage current capacity cording to EN 61009-10         ID         ID           Strage current capacity lon according to EN 61009-10         ID         ID           Strage current capacity lon according to EN 61009-10         ID         ID           Strage current capacity lon according to EN 61009-10         ID         ID           Strage current capacity lon according to EN 61009-10         ID         ID           Strage current capacity lon according to EN 61009-10         ID         ID           Strage current capacity lon according to EN 61009-10         ID         ID           Strage current capacity lon according to EN 61009-10         ID         ID           Strage current capacity lon according to EN 61009-10         ID         ID           Strage current capacity lon according to EN 61009-10         ID         ID	Rated voltage	V	230
Rated current       Image: Constraint of the second of the s	Rated insulation voltage Ui	V	440
Rate fault current         A         0.3           Leakage current type         C         C           Current limiting class         3         C           Rated short-circuit breaking capacity according to EN 61009         KA         0           Rated short-circuit breaking capacity according to EN 61009-10         KA         0           Disconnection characteristic         KA         0           Surge current capacity         KA         0           Voltage type         KA         0           Frequency         KA         0           Release characteristic         KA         0           Concurrent spacity         KA         0           Voltage type         KA         0           Prequency         KA         0           Concurrent spacity         KA         0           Voltage type         KA         0           Polendondigree         KA         0           Anbient temperature during operating         KA         0           Voltage type         S         0         0           Voltage type         S         0         0           Pollution degree         S         0         0           Nument of modular	Rated impulse withstand voltage Uimp	kV	4
Leakage urrent type Leakage utrent type Leakag	Rated current	А	10
Current limiting class         A         A         A           Rated short-circuit breaking capacity according to EK 00947-2         KA         0           Rated short-circuit breaking capacity according to EK 00947-2         KA         0           Bated short-circuit breaking capacity according to EK 00947-2         KA         0           Disconnection characteristic         Undelyed         Undelyed           Surge current capacity         KA         0.5           Voltage type         KA         0.5           Release characteristic         KA         0.4           Concurrently switching neutral conductor         KA         0.5           Voltage type         Sold         No           Pollution degree         KA         0.5           Notin temperature during operating         KA         Sold           With in number of modular spacings         KA         Sold           Built-in depth         Mo         Sold           Fush-mounted installation         Mo         Sold           Anti-nuisance tripping version         Mo         Sold           Degree of protection (IP)         Ka         No           Connerdable conductor cons section solid-core         Ka         No	Rated fault current	А	0.03
Ated short-circuit breaking capacity according to EN 61009         KA         0           Rated short-circuit breaking capacity according to EN 61009-1         KA         0           Bated short-circuit breaking capacity according to EN 61009-1         KA         0           Disconnection characteristic         Undelayed         Undelayed           Surge current capacity         KA         0           Voltage type         KA         0           Frequency         KA         0           Release characteristic         SU         SU           Concurrently switching neutral conductor         Voltage type         SU           Voltage type         SU         SU           Pollution degree         SU         SU           Pollution degree         SU         SU           Built-in depth         SU         SU           Fush-mounted installation         SU         SU           Anti-nuisance tripping version         SU         SU           Dagree of protection (IP)         SU         SU           Connectable conductor cross section solid-core         SU         SU	Leakage current type		AC
Rated short-circuit breaking capacity lon according to EK 60947-2       kA       0         Rated short-circuit breaking capacity lon according to EK 61009-1       kA       10         Disconnection characteristic       udelayed         Surge current capacity       KA       0.5         Voltage type       KA       0.5         Frequency       KA       0.5         Release characteristic       50 Hz       50 Hz         Concurrent y switching neutral conductor       6       6       6         Vit interlocking device       6	Current limiting class		3
Rated short-circuit breaking capacity lon according to EN 61009-1     KA     10       Disconnection characteristic     Undelayed       Surge current capacity     0.25       Voltage type     S0 Hz       Frequency     S0 Hz       Release characteristic     S0 Hz       Concurrently switching neutral conductor     Yes       With interlocking device     No       Over voltage category     Yes       Pollution degree     Yes       Ambient temperature during operating     Yes       With in number of modular spacings     Yes       Built-in depth     Yes       Rustanct ripping version     Yes       Anti-nuisance tripping version     Yes       Darge of protection (IP)     No       State of protection (IP)     No       State of protection (IP)     Image       State of protection (IP)     Image       State of protection (IP)     Image	Rated short-circuit breaking capacity according to EN 61009	kA	10
Disconnection characteristic         Image of the second seco	Rated short-circuit breaking capacity according to IEC 60947-2	kA	0
Suge current capacity         Image: Properties of the sector of the	Rated short-circuit breaking capacity Icn according to EN 61009-1	kA	10
Voltage type         AC           Frequency         50 Hz           Release characteristic         60 Hz           Concurrently switching neutral conductor         60 Hz           With interlocking device         60 Hz           Over voltage category         60 Hz           Pollution degree         60 Hz           Ambient temperature during operating         60 Hz           With in number of modular spacings         60 Hz           Built-in depth         60 Hz           Fush-mounted installation         60 Hz           Anti-nuisance tripping version         60 Hz           Degree of protection (IP)         60 Hz           Built-in depth         60 Hz           Mati-nuisance tripping version         60 Hz           Degree of protection (IP)         60 Hz           Built-in depth         70 Pz           Built-in depth         70 Hz           Anti-nuisance tripping version         70 Hz           Degree of protection (IP)         70 Hz           Built-in depth         70 Hz	Disconnection characteristic		Undelayed
Frequency     Image: Stream of the stream of t	Surge current capacity	kA	0.25
Release characteristic       Image: Release characteristic       <	Voltage type		AC
Concurrently switching neutral conductor       Yes         With interlocking device       No         Over voltage category       3         Pollution degree       2         Ambient temperature during operating       °C         With in number of modular spacings       °C         Built-in depth       7C         Fush-mounted installation       Mo         Anti-nuisance tripping version       Mo         Degree of protection (IP)       Imma         Internet and the conductor cross section solid-core       Imma	Frequency		50 Hz
With interlocking deviceNoOver voltage categoryIIPollution degreeIIAmbient temperature during operatingI°CIWith in number of modular spacingsIIIBuilt-in depthImmIIFlush-mounted installationIINoAnti-nuisance tripping versionIIIDegree of protection (IP)ImmIIImmediate temperature out of the space of protection space of pro	Release characteristic		В
Over voltage category       Image: Constraint of modular spacings       Image: Constraint	Concurrently switching neutral conductor		Yes
Pollution degree       2         Ambient temperature during operating       °C       25 - 40         Width in number of modular spacings       Imm       2         Built-in depth       mm       70         Flush-mounted installation       Imm       No         Degree of protection (IP)       Imm <sup>2</sup> 125	With interlocking device		No
Ambient temperature during operating       °C       -25 - 40         Width in number of modular spacings       2         Built-in depth       mm       70         Flush-mounted installation       No         Anti-nuisance tripping version       No         Degree of protection (IP)       IP20         Connectable conductor cross section solid-core       mm²       1 - 25	Over voltage category		3
Width in number of modular spacings     2       Built-in depth     mm     70       Flush-mounted installation     Mo     No       Anti-nuisance tripping version     No     120       Degree of protection (IP)     Imm <sup>2</sup> 125	Pollution degree		2
Built-in depth     mm     70       Flush-mounted installation     No       Anti-nuisance tripping version     Mo       Degree of protection (IP)     IP20       Connectable conductor cross section solid-core     mm²     1 - 25	Ambient temperature during operating	°C	-25 - 40
Flush-mounted installation     No       Anti-nuisance tripping version     No       Degree of protection (IP)     IP20       Connectable conductor cross section solid-core     mm <sup>2</sup> 1-25	Width in number of modular spacings		2
Anti-nuisance tripping version     No       Degree of protection (IP)     IP20       Connectable conductor cross section solid-core     mm <sup>2</sup> 1 - 25	Built-in depth	mm	70
Degree of protection (IP)     IP20       Connectable conductor cross section solid-core     mm <sup>2</sup> 1 - 25	Flush-mounted installation		No
Connectable conductor cross section solid-core mm <sup>2</sup> 1 - 25	Anti-nuisance tripping version		No
	Degree of protection (IP)		IP20
Connectable conductor cross section multi-wired mm <sup>2</sup> 1 - 25	Connectable conductor cross section solid-core	mm²	1 - 25
	Connectable conductor cross section multi-wired	mm²	1 - 25