



**Residual current circuit breaker (RCCB), 25A, 2p, 30mA, type AC**



**Part no. HNC-25/2/003  
194690**

<b>General specifications</b>		
Product name		Eaton Moeller series xPole - HNC RCCB
Part no.		HNC-25/2/003
EAN		9010238060623
Product Length/Depth		80 millimetre
Product height		76 millimetre
Product width		35 millimetre
Product weight		0.207 kilogram
Compliances		RoHS conform
Certifications		IEC/EN 61008
Product Tradename		xPole - HNC
Product Type		RCCB
Product Sub Type		None
<b>Delivery program</b>		
Application		Residual current circuit breaker for residential and commercial applications xPole Home - Switchgear for residential applications
Number of poles		Two-pole
Tripping time		Non-delayed
Amperage Rating		25 A
Rated short-circuit strength		6 kA
Fault current rating		30 mA
Sensitivity type		AC current sensitive
Impulse withstand current		Partly surge-proof 250 A
Type		HNC Residual current circuit breakers Type AC
<b>Technical Data - Electrical</b>		
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		0.03 A
Rated fault current - max		0.03 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)		6 kA
Surge current capacity		0.25 kA
Pollution degree		2
<b>Technical Data - Mechanical</b>		
Width in number of modular spacings		2
Built-in width (number of units)		35 mm (2 SU)
Built-in depth		45 mm
Mounting Method		DIN rail
Degree of protection		IP20
Connectable conductor cross section (solid-core) - min		1.5 mm <sup>2</sup>
Connectable conductor cross section (solid-core) - max		35 mm <sup>2</sup>

Connectable conductor cross section (multi-wired) - min		1.5 mm <sup>2</sup>
Connectable conductor cross section (multi-wired) - max		16 mm <sup>2</sup>
Busbar material thickness		0.8 mm - 2 mm
<b>Design verification as per IEC/EN 61439 - technical data</b>		
Rated operational current for specified heat dissipation (I <sub>n</sub> )		25 A
Heat dissipation per pole, current-dependent		0 W
Equipment heat dissipation, current-dependent		2 W
Ambient operating temperature - min		-25 °C
Ambient operating temperature - max		55 °C
<b>Design verification as per IEC/EN 61439</b>		
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.
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.
<b>Additional information</b>		
Features		Additional equipment possible Residual current circuit breaker
Fitted with:		Interlocking device
Special features		Maximum operating temperature is 55 °C: Starting at 40 °C, the max. permissible continuous current decreases by 3% for every 1 °C
Used with		Residual current circuit breakers Type AC HNC

## Technical data ETIM 9.0

Circuit breakers and fuses (EG000020) / Residual current circuit breaker (RCCB) (EC000003)		
Electric engineering, automation, process control engineering / Electrical installation, device / Residual current protection system / Residual current circuit breaker (RCCB) (ecl@ss13-27-14-22-01 [AAB906019])		
Number of poles		2
Rated voltage	V	230
Rated current	A	25
Rated fault current	A	0.03
Rated insulation voltage U <sub>i</sub>	V	440
Rated impulse withstand voltage U <sub>imp</sub>	kV	4
Power loss	W	
Mounting method		DIN rail
Leakage current type		AC

Selective protection		No
Short-time delayed tripping		No
Short-circuit breaking capacity (I <sub>cw</sub> )	kA	6
Surge current capacity	kA	0.25
Voltage type		AC
With interlocking device		Yes
Frequency		50 Hz
Additional equipment possible		Yes
Degree of protection (IP)		IP20
Width in number of modular spacings		2
Built-in depth	mm	45
Ambient temperature during operating	°C	-25 - 55
Pollution degree		2
Connectable conductor cross section multi-wired	mm <sup>2</sup>	1.5 - 16
Connectable conductor cross section solid-core	mm <sup>2</sup>	1.5 - 35
RAL-number (similar)		7035
Explosion-proof		No