DATASHEET - HNC-63/2/003-A

Part no. Catalog No.



Residual current circuit breaker (RCCB), 63A, 2p, 30mA, type A





Delivery program

Basic function			Residual current circuit-breakers
Number of poles			2 pole
Application			Residual current circuit-breaker for residential and commercial applications
Rated current	In	А	63
Rated short-circuit strength	I _{cn}	kA	6
Rated fault current	$I_{\Delta N}$	А	0.03
Туре			Туре А
Tripping		s	non-delayed
Product range			HNC
Sensitivity			Pulse-current sensitive
Impulse withstand current			Partly surge-proof 250 A

Technical data

Electrical			
Rated operational voltage	Ue	V	
	Ue	V AC	
Rated operating voltage	U _e	V AC	230
Rated frequency	f	Hz	50
Sensitivity			Pulse-current sensitive
Rated short-circuit strength	I _{cn}	kA	6
Mechanical			
Device height		mm	80
Built-in width		mm	35 (2TE)
Thickness of busbar material		mm	0.8 - 2

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	In	А	63
Heat dissipation per pole, current-dependent	P _{vid}	W	0
Equipment heat dissipation, current-dependent	P _{vid}	W	9.7
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) / 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@ss10.0.1-27-14-22-01 [AAB906014])

Rated voit age V 30 Rated voit age A 6 Rated voit age MA 6 Rated insulation voltage Uin MA 0 Rated insulation voltage Uinp V 40 Mounting method V 40 Leakage current type No No Selective protection KA 6 Short-circuit breaking capacity (Icw) KA 6 Surg current capacity KA 6 Veid in number of modular spacings KA 6 Built-in depth Ma 5 Anbient temperature during operating KA 6 Pollution degree Fer 6 6 Ruti in number of modular spacings Ma 5 6 Pollution degree Fer 6 6 6 Pollution degree Fer 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6			
Aread current A Bated fuir current BA Bated fuir current BA Bated fuir current BA Bated fuir current BA	Number of poles		2
Rated fault current max Bated fault current max Bated fault current max max <thmax< th=""> max max ma</thmax<>	Rated voltage	V	230
Rate disulation voltage Uin V 40 Rate disulation voltage Uinp kV 4 Mounting method KV 10 Leakage current type DIV ai 10 Selective protection KV 40 Short-tircuit breaking capacity (Icw) KA 6 Stort-circuit breaking capacity (Icw) KA 6 Surge current capacity KA 6 Stort-circuit breaking capacity (Icw) KA 6 Surge current capacity KA 6 Surge current capacity (Icw) KA 6 Surge current capacity KA 5 Additional equipment possible KA 6 Surge current capacity KA 5 Surge current capacity KA 5 Surge current capacity KA 5 Surge current capacity KA 5 <t< td=""><td>Rated current</td><td>А</td><td>63</td></t<>	Rated current	А	63
Rade dimpulse withstand voltage Uimp KV 4 Mounting method IN rail Leakage current type A Selective protection No Short-time delayed tripping KA 6 Short-time capacity (Icw) KA 6 Surge current capacity (Icw) KA 6 Frequency KA 5H2 Additional equipment possible KA 5H2 With interlocking device Yes Selective Digree of protection (IP) Yes Yes With interporting operating Mon Selective Anbient temperature during operating Mon Selective Anbient temperature during operating C Selective Pollution degree C Selective Rometable conductor cross section multi-wired mon Selective	Rated fault current	mA	30
Monting methodImage: set of the set of th	Rated insulation voltage Ui	V	440
Leakage current type A Leakage current type No Selective protection No Short-time delayed tripping No Short-circuit breaking capacity (lcw) KA Surge current capacity (lcw) KA Surge current capacity (lcw) KA Additional equipment possible 04 With interlocking device Ya Degree of protection (IP) Ya With in number of modular spacings Mo Built-in depth Mo Ambient temperature during operating C Pollution degree C Connectable conductor cross section multi-wired Mo	Rated impulse withstand voltage Uimp	kV	4
Selective protection No Short-time delayed tripping No Short-circuit breaking capacity (lcw) KA Surge current capacity KA Frequency KA Additional equipment possible Surge current capacity With interlocking device Yes Degree of protection (IP) Yes With in number of modular spacings Momentation Built-in depth Momentation Anbient temperature during operating C Sold Pollution degree C Sold Romentation construction Sold Sold Pollution degree C Sold Pollution degree momentation Sold	Mounting method		DIN rail
Short-time delayed tripping No Short-circuit breaking capacity (low) KA Surge current capacity KA Frequency KA Additional equipment possible So Dagree of protection (IP) Yes With innumber of modular spacings Tom Built-in depth Tom Anbient temperature during operating Tom Pollution degree Yes Pollution degree So Pollution degree So Pollution degree Tom Pollution degree Tom Pollution degree Tom Pollution degree Tom	Leakage current type		A
Short-circuit breaking capacity (lcw) KA 6 Surge current capacity KA 0.25 Frequency 0.142 0.142 Additional equipment possible Frequency Verson With interlocking device Frequency Verson Degree of protection (IP) Frequency Verson With in number of modular spacings Frequency 2 Anbient temperature during operating Frequency 2 Pollution degree C 2 2 Pollution degree Frequency 2 2 2 Pollution degree Frequency 2 2 2 Pollution degree Frequency	Selective protection		No
Surge current capacity KA 0.25 Frequency 50 Hz Additional equipment possible Yes With interlocking device Frequency Degree of protection (IP) 100 Width in number of modular spacings Cmm Built-in depth 7c Anbient temperature during operating Cmm Pollution degree 2 Pollution degree Cmm Surge conductor cross section multi-wired mm²	Short-time delayed tripping		No
Frequency 6 6 50 Hz Additional equipment possible 6 50 Hz With interlocking device 7 7 Degree of protection (IP) 6 7 With in number of modular spacings 6 7 Built-in depth 7 7 Ambient temperature during operating 6 °C Pollution degree 6 °C Pollution degree 6 mm² Sometable conductor cross section multi-wired mm² 15-16	Short-circuit breaking capacity (Icw)	kA	6
Additional equipment possible Mes With interlocking device Yes Degree of protection (IP) IP00 With in number of modular spacings Imm Built-in depth mm Abbient temperature during operating Imm Pollution degree Imm Imm Imm	Surge current capacity	kA	0.25
With interlocking deviceYesDegree of protection (IP)IP20Width in number of modular spacingsMBuilt-in depthmmAmbient temperature during operating°CPollution degree°CConnectable conductor cross section multi-wiredmm²Image: Section multi-wiredmm²Ima	Frequency		50 Hz
Degree of protection (IP) IPD Width in number of modular spacings Imm Built-in depth mm Ambient temperature during operating Imm Pollution degree Imm Connectable conductor cross section multi-wired Imm	Additional equipment possible		Yes
Width in number of modular spacingsAmbient temperature during operatingAmbient temperature during operating	With interlocking device		Yes
Built-in depth mm 45 Ambient temperature during operating °C 25 - 40 Pollution degree C 2 Connectable conductor cross section multi-wired Mm ² 15 - 16	Degree of protection (IP)		IP20
Ambient temperature during operating °C 25 - 40 Pollution degree 2 Connectable conductor cross section multi-wired mm² 15 - 16	Width in number of modular spacings		2
Pollution degree 2 Connectable conductor cross section multi-wired mm ²	Built-in depth	mm	45
Connectable conductor cross section multi-wired mm ² 1.5 - 16	Ambient temperature during operating	°C	-25 - 40
	Pollution degree		2
Connectable conductor cross section solid-core mm ² 1.5 - 35	Connectable conductor cross section multi-wired	mm²	1.5 - 16
	Connectable conductor cross section solid-core	mm²	1.5 - 35