DATASHEET - HN-B50/3N

Miniature circuit breaker (MCB), 50 A, 3p+N, characteristic: B

Part no.	HN-B50/3N
Catalog No.	194906



Delivery program Basic function Miniature circuit-breakers Number of poles 3 pole+N Tripping characteristic B Application V Switchgear for residential and commercial applications Rated current In A 50 Rated switching capacity according to IEC/EN 60898-1 Icn KA 6 Product range HN HN HN	
Tripping characteristic B Application Switchgear for residential and commercial applications Rated current In A Bated switching capacity according to IEC/EN 60898-1 Icn KA	
Application Annotation Rated current In A Rated switching capacity according to IEC/EN 60898-1 Icn KA	
Application Mode Switchgear for residential and commercial applications Rated current In A 50 Rated switching capacity according to IEC/EN 60898-1 Icn KA 6	
Rated switching capacity according to IEC/EN 60898-1 In A 50	
Rated switching capacity according to IEC/EN 60898-1	
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Technical data Electrical	
Rated switching capacity according to IEC/EN 60898-1 Icn kA 6	
Design verification as per IEC/EN 61439	
Technical data for design verification	
Rated operational current for specified heat dissipation In A 50	
Heat dissipation per pole, current-dependent P _{vid} W 0	
Equipment heat dissipation, current-dependent P _{vid} W 15.3	
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 75	
linear, per +1 °C, results in a 0.5% reduction of current carrying ca	pacity
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 provide heat dissipation data for the devices.	on. Eaton will
10.11 Short-circuit rating Is the panel builder's responsibility. The specifications for the switcher builder's responsibility. The specifications for the switcher builder's responsibility.	chgear must be:

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Is the panel builder's responsibility. The specifications for the switchgear must be observed.

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) / Miniature circuit breaker (MCB) (EC000042)

Electric engineering, automation, process control engineering / Electrical installation, device / Miniature circuit breaker system (MCB) / Miniature circuit breaker (MCB) (ecl@ss10.0.1-27-14-19-01 [AAB905014])				
Built-in depth	mm	44		
Release characteristic		В		
Number of poles (total)		4		
Number of protected poles		3		
Rated current	А	50		
Rated voltage	V	230		
Rated insulation voltage Ui	V	440		
Rated impulse withstand voltage Uimp	kV	4		
Rated short-circuit breaking capacity Icn according to EN 60898 at 230 V	kA	6		
Voltage type		AC		
Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V	kA	6		
Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V	kA	0		
Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V	kA	0		
Frequency	Hz	50 - 60		
Current limiting class		3		
Flush-mounted installation		Yes		
Concurrently switching neutral conductor		Yes		
Over voltage category		3		
Pollution degree		3		
Additional equipment possible		Yes		
Width in number of modular spacings		4		
Degree of protection (IP)		IP20		
Ambient temperature during operating	°C	-25 - 75		
Connectable conductor cross section multi-wired	mm²	1 - 25		
Connectable conductor cross section solid-core	mm²	1 - 25		
Explosion-proof		No		