DATASHEET - HL-C13/3N

Miniature circuit breaker (MCB), 13 A, 3p+N, characteristic: C

Part no.	HL-C13/3N
Catalog No.	194810



Delivery program						
Basic function			Miniature circuit-breakers			
Number of poles			3 pole+N			
Tripping characteristic			С			
Application			Switchgear for residential and commercial applications			
Rated current	I _n	А	13			
Rated switching capacity according to IEC/EN 60898-1	I _{cn}	kA	4.5			
Product range			HL			
i bubbling.			12			
Technical data Electrical						
Rated switching capacity according to IEC/EN 60898-1	I _{cn}	kA	4.5			
Design verification as per IEC/EN 61439						
Technical data for design verification						
Ū		٨	12			
Rated operational current for specified heat dissipation	I _n	A	13			
Heat dissipation per pole, current-dependent	P _{vid}	W	0			
Equipment heat dissipation, current-dependent	P _{vid}	W	8.1			
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 capacity			
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 b observed.			

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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	n	nm	44		
Release characteristic			C		
Number of poles (total)			4		
Number of protected poles			3		
Rated current	Д	4	13		
Rated voltage	V	/	230		
Rated insulation voltage Ui	V	/	440		
Rated impulse withstand voltage Uimp	k	٨V	4		
Rated short-circuit breaking capacity Icn according to EN 60898 at 230 ${\rm V}$	k	κA	4.5		
Voltage type			AC		
Rated short-circuit breaking capacity Icn according to EN 60898 at 400 ${\rm V}$	k	κA	4.5		
Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V $$	k	κA	0		
Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V $$	k	κA	0		
Frequency	H	Ηz	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	٥	°C	-25 - 75		
Connectable conductor cross section multi-wired	n	nm²	1 - 25		
Connectable conductor cross section solid-core	n	nm²	1 - 25		
Explosion-proof			No		