DATASHEET - PL6-C32/3



Miniature circuit breaker (MCB), 32A, 3 p, type C characteristic

Powering Business Worldwide*

Part no. PL6-C32/3 Catalog No. 286604

Similar to illustration

Delivery program			
Basic function			Miniature circuit-breakers
Number of poles			3 pole
Tripping characteristic			С
Application			Switchgear for residential and commercial applications
Rated current	In	Α	32
Rated switching capacity according to IEC/EN 60898-1	I _{cn}	kA	6
Product range			PL6

Technical data

Electrical

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Design verification as per IEC/EN 61439

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echnical data for design verification			
Rated operational current for specified heat dissipation	In	Α	32
Heat dissipation per pole, current-dependent	P_{vid}	W	0
Equipment heat dissipation, current-dependent	P _{vid}	W	12.1
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
C/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

Electricaginaering, automation, process control engineering / Electrical installator, device / Horizon in engineering victor (MCB) / Ministure circuit breaker (MCB) (Singuisering victor) (Scientistal Scientistal Scientista	lechnical data Elim 7.0						
Release characteristic	Circuit breakers and fuses (EG000020) / Miniature circuit breaker (MCB) (EC000042)						
Number of poles (total) 4 3 Number of protected poles 4 3 Rated current 4 3 Rated voltage 4 40 Rated insulation voltage Uin 4 40 Rated insulation voltage Uinp 4 4 Rated short-circuit breaking capacity Ice RN 60888 at 230 V 5 4 Rated short-circuit breaking capacity Ice RN 60888 at 230 V 5 6 Rated short-circuit breaking capacity Icu RC 60847-2 at 230 V 5 6 Rated short-circuit breaking capacity Icu RC 60847-2 at 230 V 6 9 Rated short-circuit breaking capacity Icu RC 60847-2 at 230 V 6 9 Rated short-circuit breaking capacity Icu RC 60847-2 at 230 V 6 9 Rated short-circuit breaking capacity Icu RC 60847-2 at 400 V 6 9 Voltage type 1 1 9 Frequency 1 1 9 Current limiting class 1 9 9 Suitable for flush-mounted installation 1 9 1 9 Concurrently sw							
Number of protected poles 4 3 Rated current 4 4 32 Rated voltage V 40 40 Rated insulation voltage Uin V 40 40 Rated singulse withstand voltage Uimp V 4 40 Rated short-circuit breaking capacity Icn EN 60898 at 230 V KA 6 Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V KA 6 Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V KA 0 Rated short-circuit breaking capacity Icu IEC 60947-2 at 200 V KA 0 Voltage type KA 0 0 Current limiting class S 3 0 Suitable for flush-mounted installation N N N Concurrently switching N-neutral Y N N Over voltage category N N N Pollution degree Y Y Y Vidith in number of modular spacings Y Y Y Suith-in depth Y Y	Release characteristic		С				
Rated current A 3 2 Rated voltage V 400 Rated insulation voltage Ui V 440 Rated insulation voltage Uimp V 40 Rated short-circuit breaking capacity Icn EN 60898 at 200 V KA 6 Rated short-circuit breaking capacity Icn EN 60898 at 400 V KA 6 Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V KA 0 Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V KA 0 Voltage type KA 0 0 Frequency Courrent initing class 3 0 Suitable for flush-mounted installation KA 0 0 Concurrently switching N-neutral KA 0 0 Over voltage category KA 0 0 Pollution degree KA 3 0 Additional equipment possible KA 0 0 With in number of modular spacings KA Yes Built-in depth KA 0 0 Built-i	Number of poles (total)		3				
Rated voltage V 400 Rated insulation voltage Uin V 440 Rated inpulse withstand voltage Uimp kV 4 Rated short-circuit breaking capacity Icn EN 60898 at 230 V kA 6 Rated short-circuit breaking capacity Icn EN 60898 at 400 V kA 6 Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V kA 0 Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V kA 0 Voltage type kA 0 0 Current limiting class kB 0 0 Suitable for flush-mounted installation KB y 0 Concurrently switching N-neutral KB y 0 Over voltage category KB y 0 Pollution degree KB y 2 Additional equipment possible YB y 0 Width in number of modular spacings MB y 0 Built-in depth MB 7 0 Degree of protection (IP) MB 7 2 </td <td>Number of protected poles</td> <td></td> <td>3</td>	Number of protected poles		3				
Rated insulation voltage Ui V 440 Rated impulse withstand voltage Uimp kV 4 Rated short-circuit breaking capacity Icn EN 60898 at 230 V kA 6 Rated short-circuit breaking capacity Icn EN 60898 at 400 V kA 6 Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V kA 0 Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V kA 0 Voltage type kA 0 0 Current limiting class kA 50-60 Suitable for flush-mounted installation kA No Concurrently switching N-neutral kA No Over voltage category kA 3 Pollution degree kA kS Additional equipment possible kS kS Width in number of modular spacings kS yS Built-in depth kS yS Degree of protection (IP) kS yS Ambient temperature during operating kS yS Connectable conductor cross section multi-wired kS yS	Rated current	Α	32				
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Rated short-circuit breaking capacity Icn EN 60898 at 230 V Rated short-circuit breaking capacity Icn EN 60898 at 400 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V Voltage type Voltage type Current Imiting class Suitable for flush-mounted installation Concurrently switching N-neutral Over voltage category Pollution degree Additional equipment possible Width in number of modular spacings Built-in depth Degree of protection (IP) Ambient temperature during operating Connectable conductor cross section multi-wired Na Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V Rate 3 Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu IC	Rated insulation voltage Ui	V	440				
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Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V Voltage type Current limiting class Suitable for flush-mounted installation Concurrently switching N-neutral Over voltage category Pollution degree Additional equipment possible Width in number of modular spacings Built-in depth Degree of protection (IP) Ambient temperature during operating Connectable conductor cross section multi-wired KA 0 C C C C C C C C	Rated short-circuit breaking capacity Icn EN 60898 at 230 V	kA	6				
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Voltage type Frequency Current limiting class Suitable for flush-mounted installation Concurrently switching N-neutral Over voltage category Pollution degree Additional equipment possible Width in number of modular spacings Built-in depth Degree of protection (IP) Ambient temperature during operating Connectable conductor cross section multi-wired AC AC AC AC AC POI 50 - 60 No No No PO Ve 3 3 4 7 7 7 8 8	Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V	kA	0				
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Suitable for flush-mounted installation Concurrently switching N-neutral Over voltage category Pollution degree Additional equipment possible Width in number of modular spacings Built-in depth Degree of protection (IP) Ambient temperature during operating Connectable conductor cross section multi-wired No No No No 2 4 3 7 5 6 7 8 7 8 No 1 7 8 7 8 7 8 7 8 8 8 8 8 8	Frequency	Hz	50 - 60				
Concurrently switching N-neutral Over voltage category Pollution degree Additional equipment possible Width in number of modular spacings Built-in depth Degree of protection (IP) Ambient temperature during operating Connectable conductor cross section multi-wired No No 2 4 7 8 No 1 9 1 1 1 1 1 1 1 1 1 1 1	Current limiting class		3				
Over voltage category Over voltage category Pollution degree Additional equipment possible Width in number of modular spacings Built-in depth Degree of protection (IP) Ambient temperature during operating Connectable conductor cross section multi-wired March 1 - 25 March 2 - 2 March 2	Suitable for flush-mounted installation		No				
Pollution degree 2 Additional equipment possible Yes Width in number of modular spacings 3 Built-in depth mm 70.5 Degree of protection (IP) IP20 Ambient temperature during operating °C -25 -55 Connectable conductor cross section multi-wired mm² 1 - 25	Concurrently switching N-neutral		No				
Additional equipment possible Width in number of modular spacings Built-in depth Degree of protection (IP) Ambient temperature during operating Connectable conductor cross section multi-wired Yes 70.5 P20 P20 -25 - 55 Connectable conductor cross section multi-wired mm² 1 - 25	Over voltage category		3				
Width in number of modular spacings 3 Built-in depth mm 70.5 Degree of protection (IP) IP20 Ambient temperature during operating °C -25 - 55 Connectable conductor cross section multi-wired mm² 1 - 25	Pollution degree		2				
Built-in depth mm 70.5 Degree of protection (IP) IP20 Ambient temperature during operating °C -25 - 55 Connectable conductor cross section multi-wired mm² 1 - 25	Additional equipment possible		Yes				
Degree of protection (IP) Ambient temperature during operating °C -25 - 55 Connectable conductor cross section multi-wired mm² 1 - 25	Width in number of modular spacings		3				
Ambient temperature during operating °C -25 - 55 Connectable conductor cross section multi-wired mm² 1 - 25	Built-in depth	mm	70.5				
Connectable conductor cross section multi-wired mm ² 1 - 25	Degree of protection (IP)		IP20				
	Ambient temperature during operating	°C	-25 - 55				
Connectable conductor cross section solid-core mm ² 1 - 25	Connectable conductor cross section multi-wired	mm²	1 - 25				
	Connectable conductor cross section solid-core	mm ²	1 - 25				