## DATASHEET - PL6-C10/1

## Miniature circuit breaker (MCB), 10 A, 1p, characteristic: C



Powering Business Worldwide"

Similar to illustration

Tipping characteristic   C   Setted part or residencial and commercial again commercial a	Delivery program							
Tipping characteristic   C   Setted part or residencial and commercial again commercial a	Basic function			Miniature circuit-breakers				
And current   In   A   ID     Bated current   In   A   ID   ID     Bated switching capacity according to EQEN BBBS-1   In   ID   ID   ID     Bated switching capacity according to IEQEN BBBS-1   In   ID	Number of poles			1 pole				
And current   In   A   IO     Rand dwelding capacity according to IECEM 00080-1   Lon   KA   6     Preduct range   Vo   6     Christal data   Second Secon	Tripping characteristic			C				
Nature averteling capacity according to EGCEN 60059-1   Page   Page     Product range   Page   Page     Electrical   International State S	Application			Switchgear for residential and commercial applications				
Product range Pr	Rated current	I <sub>n</sub>	А	10				
Image:	Rated switching capacity according to IEC/EN 60898-1	I <sub>cn</sub>	kA	6				
Control   In   A   A   A     In	Product range			PL6				
Hard social part of the CPCN 60099-1 is a set of the se								
Construction as per IEC/EN 61439     Paid operational current for specified heat dissipation   In   A   0     Paid operational current for specified heat dissipation   Poid   W0   0     Equipment heat dissipation, current-dependent   Poid   W0   0     Equipment heat dissipation, current-dependent   Poid   W0   0     Guard signation approje, current-dependent   Poid   W0   0     Operating ambient temperature min.   Poid   W0   0     Operating ambient temperature max.   "C   75   1000000000000000000000000000000000000	Technical data Electrical							
Technical data for design verification   In   A   1     Reed operational current for specified heat dissipation   In   A   10     Heat dissipation current for specified heat dissipation   Pvd   W0   0     Equipment heat dissipation, current-dependent   Pvd   W0   0     Heat dissipation, current-dependent   Pvd   W0   0     Operating ambient temperature min.   Pvd   W0   0     Operating ambient temperature max.   "CC   75     EVEN 61439 design verification   Inex, per +1°C, results in 0.5% reduction of current carrying capacity     102.2 Strong to materials and parts   Inex, per +1°C, results in 0.5% reduction of current carrying capacity     102.2 Corrosion resistance   Inex, per +1°C, results in 0.5% reduction of current carrying capacity     102.2 Strong to materials and parts   Inex, per +1°C, results in 0.5% reduction of current carrying capacity     102.2 Strong to materials and parts   Inex, per +1°C, results in 0.5% reduction of current carrying capacity     102.2 Strong to materials and parts   Internal electric dress   Meets the product standard's requirements.     102.2 Strong to materials and parts   Internal electric dress   Internal electric	Rated switching capacity according to IEC/EN 60898-1	I <sub>cn</sub>	kA	6				
Red operational current for specified heat dissipation   In   A   In     Rade operational current for specified heat dissipation   No   A   In   I	Design verification as per IEC/EN 61/20							
Rate operational current for specified heat dissipation   In   A   In   In   A   In   In   In   In   In   In   In	•							
Heat dissipation per pole, current-dependent   Puid   W     Equipment heat dissipation, current-dependent   Pvid   W   15     Static heat dissipation, current-dependent   Pvis   W   0     Geprating ambient temperature min.   "C   75   75     Operating ambient temperature min.   "C   76   75     Operating ambient temperature max.   "C   76   75     CVEN 51439 design verification   "C   76   75     1022 Strongth of materials and parts   "C   76   76     1022 Strongth of materials and parts   "C   Weets the product standard's requirements.     102.23 Verification of resistance of insulating materials to normal heat   Meets the product standard's requirements.     102.32 Verification of resistance of insulating materials to abnormal heat   Meets the product standard's requirements.     102.43 Resistance to ulra-violet (UN) radiation   E	•	In	А	10				
Equipment heat dissipation, current-dependent   Period   We   1     Static heat dissipation, non-current-dependent   Period   We   0     Heat dissipation capacity   Period   VC   25     Operating ambient temperature min.   °C   75     Operating ambient temperature max.   °C   75     FUE SI 51439 design verification   Inear, per +1°C, results in a 0.5% reduction of current carrying capacity     FUE SI 51439 design verification   Inear, per +1°C, results in a 0.5% reduction of current carrying capacity     FUE SI 51439 design verification   Inear, per +1°C, results in a 0.5% reduction of current carrying capacity     FUE SI 51439 design verification   Inear, per +1°C, results in a 0.5% reduction of current carrying capacity     FUE SI 51439 design verification   Inear, per +1°C, results in a 0.5% reduction of current carrying capacity     FUE SI 51439 design verification   Inear, per +1°C, results in a 0.5% reduction of current carrying capacity     FUE SI 51439 design verification   Inear, per +1°C, results in a 0.5% reduction of current carrying capacity     FUE SI 51450   Meets the product standard's requirements.     FUE SI 51450   Meets the product standard's requirements.     FUE SI 51460   Meets the produc								
Basis heat dissipation, non-current-dependent   Person   West   Mest   West   Person   West   Person								
Heat dissipation capacity   Pairs   W   O     Oparating ambient temperature min.   *C   -25     Oparating ambient temperature max.   *C   75     EC/EN 6149 design verification   inear, per +1 *C, results in a 0.5% reduction of current carrying capacity     10.2 Strength of materials and parts   Meets the product standard's requirements.     10.2.2 Corrosin resistance   Meets the product standard's requirements.     10.2.3.1 Verification of terminal stability of enclosures   Meets the product standard's requirements.     10.2.3.2 Verification of resistance of insulating materials to abnormal heat   Meets the product standard's requirements.     10.2.3.1 Verification of resistance of insulating materials to abnormal heat   Meets the product standard's requirements.     10.2.3 Verification of resistance of insulating materials to abnormal heat   Meets the product standard's requirements.     10.2.3 Verification of ASSEMBLIES   Meets the product standard's requirements.     10.2.4 Degree of protection of ASSEMBLIES   Meets the product standard's requirements.     10.3.2 Power-fraquency electric stock   Meets the product standard's requirements.     10.3 Connections for external conductors   Is the panel builder's responsibility.     10.4 Chearances and creepage distances								
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	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 wil 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 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	70.5			
Release characteristic			C			
Number of poles (total)			1			
Number of protected poles			1			
Rated current		Α	10			
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			No			
Concurrently switching neutral conductor			No			
Over voltage category			3			
Pollution degree			2			
Additional equipment possible			Yes			
Width in number of modular spacings			1			
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			