Powering Business Worldwide

PLS6-C13-DC-MW - Miniature circuit breaker (MCB), 13 A, 1p, characteristic: C, DC

243121 PLS6-C13-DC-MW

Overview Specifications Resources

243121 PLS6-C13-DC-MW

Miniature circuit breaker (MCB), 13 A, 1p, characteristic: C, DC

EL-Nummer (Norway) 1609278

Miniature circuit breaker (MCB), PLS6, 1-pole, tripping characteristic: C, rated current In: 13 A, rated switching capacity acc. to IEC/EN 60947-2: 6 kA, Switchgear for DC applications

- Delivery program
- Technical data
- Design verification as per IEC/EN 61439
- Technical data ETIM 7.0

Delivery program

Basic function
Miniature circuit-breakers
Number of poles
1 pole
Tripping characteristic
C
Application
Switchgear for DC applications
Rated current [I_n]
13 A
Rated switching capacity acc. to IEC/EN 60947-2 [I_{cu}]
6 kA
Product range
PLS6

Technical data

Electrical
Rated switching capacity acc. to IEC/EN 60947-2 [I_{cu}]
6 kA

Design verification as per IEC/EN 61439

Technical data for design verification
Rated operational current for specified heat dissipation [I_n]
13 A
Heat dissipation per pole, current-dependent [P_{vid}]
0 W
Equipment heat dissipation, current-dependent [P_{vid}]
2.3 W
Static heat dissipation, non-current-dependent [P_{vs}]
0 W
Heat dissipation capacity [P_{diss}]
0 W
Operating ambient temperature min.
-25 °C
Operating ambient temperature max.
+75 °C
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 parts10.2.2 Corrosion resistance
Meets the product standard's requirements.
10.2 Strength of materials and parts10.2.3.1 Verification of thermal stability of enclosures
Meets the product standard's requirements.
10.2 Strength of materials and parts10.2.3.2 Verification of resistance of insulating materials to normal heat
Meets the product standard's requirements.
10.2 Strength of materials and parts10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects
Meets the product standard's requirements.
10.2 Strength of materials and parts10.2.4 Resistance to ultra-violet (UV) radiation
Meets the product standard's requirements.
10.2 Strength of materials and parts10.2.5 Lifting
Does not apply, since the entire switchgear needs to be evaluated.
10.2 Strength of materials and parts10.2.6 Mechanical impact
Does not apply, since the entire switchgear needs to be evaluated.
10.2 Strength of materials and parts10.2.7 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 properties10.9.2 Power-frequency electric strength
Is the panel builder's responsibility.
10.9 Insulation properties10.9.3 Impulse withstand voltage
Is the panel builder's responsibility.
10.9 Insulation properties10.9.4 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) / 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])
Release characteristic
C

Number of poles (total)
1
Number of protected poles
1
Rated current
13 A
Rated voltage
220 V
Rated insulation voltage Ui
440 V
Rated impulse withstand voltage Uimp
4 kV
Rated short-circuit breaking capacity Icn EN 60898 at 230 V
0 kA
Rated short-circuit breaking capacity Icn EN 60898 at 400 V
0 kA
Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V
10 kA
Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V
10 kA
Voltage type
DC
Frequency
0 - 0 Hz
Current limiting class
3
Suitable for flush-mounted installation
No
Concurrently switching N-neutral
No
Over voltage category
3
Pollution degree
2
Additional equipment possible
Yes
Width in number of modular spacings
1
Built-in depth
70.5 mm
Degree of protection (IP)
IP20
Ambient temperature during operating
-25 - 75 °C
Connectable conductor cross section multi-wired
1 - 25 mm²
Connectable conductor cross section solid-core
1 - 25 mm²

CAD data

- 3D Preview
  (Web)

DWG files

- DA-CD-pls_1p
  File
  (Web)

edz files

- DA-CE-ETN.PLS6-C13-DC-MW
  File
  (Web)

Step files

- DA-CS-pls_1p

File
(Web)

Product photo

- 
  sg46811
  Photo
  Miniature circuit breaker (MCB)

Instruction Leaflet

- Circuit Breakers (IL019140ZU)
  Asset
  MA180503264
  (PDF, 10/2019, Language independent)

Declaration of Conformity

EU

- DA-DC-03_PLS_200416
  Asset
  (PDF)

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