Specifications

Eaton 102709



Catalog Number: 102709

Eaton xEnergy Basic LV systems Low voltage switchgear. Terminal block, 1 pole, 175A, 1 output terminal, ALU

General specifications

Product Name Eaton xEnergy Basic LV systems Low voltage switchgear	**Catalog Number** 102709
	EAN 4015081025695
Product Length/Depth 49.4 mm	**Product Height** 72.5 mm
Product Width 25.4 mm	**Product Weight** 0.133 kg
Compliances RoHS conform	**Certifications** IEC 60 947 -7 -1

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Product specifications

Special features

Al-sector conductors tested up to 50mm²
Clicks on DIN-rail or on base plate.
Save time on wiring.
Save 80% on space used.
Modular construction, 1-4 pole Systems can be built with several blocks.
Material, hexagon socket set screw: Steel
This power distribution block is suitable for ALU and CU conductors.
Please pay attention to the common handling guidelines when connecting the aluminium conductors.
Clean and brush the contact surfaces and lubricate them with an appropriate grease.
As precaution the connections should get retightened regularly.
Zinc plated (Hexagon socket set screw, Surface finish)

Functions

Additional equipment

Torque rating

6 Nm - 11.4 Nm / 53.1 lbf - 100 lbf (incoming). 6 Nm - 11.4 Nm / 53.1 lbf - 100 lbf (outgoing)

Conductor cross section (flexible, fine-strand) with cable end sleeve - max

50 mm²

Conductor cross section (flexible, fine-strand) with cable end sleeve - min

2.5 mm²

Conductor cross section (solid, solid-strand) - max

50 mm²

Conductor cross section (solid, solid-strand) - min

2.5 mm²

Resources

Brochures

eaton-xenergy-basic-light-brochure-br014024-en-us.pdf

Catalogs

eaton-distribution-boards-xenergy-basic-catalog-ca014010en-en-us.pdf

Declarations of conformity

DA-DC-03_BPZ-KB

Drawings

eaton-dimensions-mas-bpz-kb-1-175-a.eps

Sales notes

eaton-f3a-flange-flyer-fl019005en-en-us.pdf

Amperage rating

175 A

Voltage rating at DC Cu (IEC) - max

1500 VDC

Number of poles

Single-pole

Degree of protection

IP20

Mounting position

Universal

Clamp material

Plated

Brass

Comparative tracking index (CTI)

600 V

Housing material

PA66

Housing color

Light gray (RAL 7035)

Material

Aluminum

Mounting method

Surface mounting

Floor standing distribution board

Flush mounting

Flame classification (UL 94)

V-0

Heat deflection temperature

100 °C

Rated short-circuit strength

100 kA with back-up fuse

Number of clamp positions per pole

2

Number of clamping units per pole

2

Voltage rating at AC Al (IEC) - max

1000 VAC

Voltage rating at AC Al (UL) - max

600 VAC

Voltage rating at AC Cu (IEC) - max

1000 VAC

Voltage rating at AC Cu (UL) - max

600 VAC

Voltage rating at DC Al (IEC) - max

1500 VDC

Rated operation current (Ie) Al (IEC)

125 A

Rated operation current (Ie) Cu (IEC)

175 A

Rated operation current (Ie) Cu (UL)

175 A

Terminal capacity (single/multi-wire)

6 - 1 AWG (outgoing, fine wire (with sleeve))
6 - 1 AWG (incoming, fine wire (with sleeve))
6 - 2/0 AWG (incoming)
16 mm² - 70 mm² (incoming)
16 mm² - 70 mm² (outgoing)
6 - 2/0 AWG (outgoing)
16 mm² - 50 mm² (incoming, fine wire (with sleeve))
16 mm² - 50 mm² (outgoing, fine wire (with sleeve))

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