

Specifications



Eaton 178402

Eaton xEnergy Basic LV systems Low voltage switchgear. Terminal block, 1-pole, 400A, 6 output terminals, ALU

General specifications

PRODUCT NAME	Eaton xEnergy Basic other accessory
CATALOG NUMBER	178402
MODEL CODE	BPZ-KB-6/400-ALU
EAN	4015081737055
PRODUCT LENGTH/DEPTH	50.2 mm
PRODUCT HEIGHT	103 mm
PRODUCT WIDTH	44.4 mm
PRODUCT WEIGHT	0.522 kg
COMPLIANCES	RoHS conform
CERTIFICATIONS	IEC 60 947 -7 -1



Powering Business Worldwide

Additional information

COMPARATIVE TRACKING INDEX (CTI) 600 V

FLAME CLASSIFICATION (UL 94) V-0

FUNCTIONS Additional equipment

SPECIAL FEATURES

- 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)

Delivery programme

AMPERAGE RATING 400 A

NUMBER OF POLES Single-pole

Design verification to IEC/EN 61439 - technical data

HEAT DEFLECTION TEMPERATURE 100 °C

Technical data - electrical

RATED OPERATION CURRENT (IE) AL (IEC) 350 A

RATED OPERATION CURRENT (IE) CU (IEC) 400 A

RATED PEAK WITHSTAND CURRENT 50 kA

RATED SHORT-TIME WITHSTAND CURRENT (ICW)	21 kA
VOLTAGE RATING AT AC AL (IEC) - MAX	1000 VAC
VOLTAGE RATING AT AC CU (IEC) - MAX	1000 VAC
VOLTAGE RATING AT DC AL (IEC) - MAX	1500 VDC
VOLTAGE RATING AT DC CU (IEC) - MAX	1500 VDC

Technical data - mechanical

CLAMP MATERIAL	Brass Nickel plated
CONDUCTOR CROSS SECTION (FLEXIBLE, FINE-STRAND) WITH CABLE END SLEEVE - MAX	185 mm ²
CONDUCTOR CROSS SECTION (FLEXIBLE, FINE-STRAND) WITH CABLE END SLEEVE - MIN	6 mm ²
CONDUCTOR CROSS SECTION (SOLID, SOLID-STRAND) - MAX	240 mm ²
CONDUCTOR CROSS SECTION (SOLID, SOLID-STRAND) - MIN	10 mm ²
HOUSING COLOR	Light gray (RAL 7035)
HOUSING MATERIAL	PA66
MATERIAL	Aluminum
MOUNTING METHOD	Floor standing distribution board Flush mounting Surface mounting
MOUNTING POSITION	Universal
NUMBER OF CLAMP POSITIONS PER POLE	7
NUMBER OF CLAMPING UNITS PER POLE	7
TERMINAL CAPACITY (SINGLE/MULTI-WIRE)	2/0 - 6/0 AWG (incoming, fine wire (with sleeve)) 3/0 - 500 MCM AWG (incoming) 8 - 1 AWG (outgoing) 6 mm ² - 35 mm ² (outgoing, fine wire (with sleeve)) 10 - 2 AWG (outgoing, fine wire (with sleeve)) 70 mm ² - 185 mm ² (incoming, fine wire (with sleeve)) 10 mm ² - 50 mm ² (outgoing) 95 mm ² - 240 mm ² (incoming)
DEGREE OF PROTECTION	IP10
TORQUE RATING	25 Nm / 221.2 lbf (incoming). 3.5 Nm - 7 Nm / 31 lbf - 62 lbf (outgoing). Allen key 8 mm

Resources

BROCHURES	eaton-xenergy-basic-light-brochure-br014024-en-us.pdf
CATALOGUES	eaton-distribution-boards-xenergy-basic-catalog-ca014010en-en-us.pdf
DECLARATIONS OF CONFORMITY	eaton-accessories-declaration-of-conformity-eu250225en.pdf
DRAWINGS	eaton-xenergy-basic-terminal-block-dimensions-024.eps
FLYERS	eaton-xenergy-basic-profisnap-flyer-fl019008en-en-us.pdf
SALES NOTES	eaton-f3a-flange-flyer-fl019005en-en-us.pdf

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:



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