

Terminal block, 1 pole, 175A, 1 output terminal, ALU



**Part no.** BPZ-KB-1/175-ALU  
**102709**  
**EL Number** 1243563  
**(Norway)**

General specifications		
Product name		Eaton xEnergy Basic LV systems Low voltage switchgear
Part no.		BPZ-KB-1/175-ALU
EAN		4015081025695
Product Length/Depth		49.4 millimetre
Product height		72.5 millimetre
Product width		25.4 millimetre
Product weight		0.133 kilogram
Compliances		RoHS conform
Certifications		IEC 60 947 -7 -1
Product Tradename		xEnergy Basic
Product Type		LV systems
Product Sub Type		Low voltage switchgear
Delivery program		
Amperage rating		175 A
Number of poles		Single-pole
Technical Data - Electrical		
Voltage rating at AC Al (UL) - max		600 V AC
Voltage rating at AC Cu (IEC) - max		1000 V AC
Voltage rating at AC Cu (UL) - max		600 V AC
Voltage rating at DC Al (IEC) - max		1500 V DC
Voltage rating at DC Cu (IEC) - max		1500 V DC
Rated operation current (Ie) Al (IEC)		125 A
Rated operation current (Ie) Cu (IEC)		175 A
Rated operation current (Ie) Cu (UL)		175 A
Rated short-circuit strength		100 kA with back-up fuse
Technical Data - Mechanical		
Mounting method		Surface mounting Floor standing distribution board Flush mounting
Mounting position		Universal
Material		Aluminum
Degree of protection		IP20
Number of clamp positions per pole		2
Number of clamping units per pole		2
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 mm <sup>2</sup> - 70 mm <sup>2</sup> (incoming) 16 mm <sup>2</sup> - 70 mm <sup>2</sup> (outgoing) 6 - 2/0 AWG (outgoing) 16 mm <sup>2</sup> - 50 mm <sup>2</sup> (incoming, fine wire (with sleeve)) 16 mm <sup>2</sup> - 50 mm <sup>2</sup> (outgoing, fine wire (with sleeve))
Conductor cross section (solid, solid-strand) - min		2.5 mm <sup>2</sup>
Conductor cross section (solid, solid-strand) - max		50 mm <sup>2</sup>
Clamp material		Plated Brass
Torque rating		6 Nm - 11.4 Nm / 53.1 lbf - 100 lbf (incoming). 6 Nm - 11.4 Nm / 53.1 lbf - 100 lbf (outgoing)
Housing color		Light gray (RAL 7035)
Housing material		PA66
Design verification as per IEC/EN 61439 - technical data		

Heat deflection temperature		100 °C
<b>Additional information</b>		
Comparative tracking index (CTI)		600 V
Flame classification (UL 94)		V-0
Functions		Additional equipment
Special features		<p>Al-sector conductors tested up to 50mm<sup>2</sup>  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)</p>

## Technical data ETIM 9.0

Energy distribution systems (EG000015) / Distributor assembly terminal blocks (EC001894)		
Electric engineering, automation, process control engineering / Electrical insulation and connecting material / Energy distribution system / Distributor assembly terminal blocks (ec1@ss13-27-40-06-09 [ACO381016])		
Height	mm	72.5
Width	mm	25.4
Depth	mm	49.4
Max. rated current	A	175
Number of poles		1
Conductor cross section flexible (fine-strand) with cable end sleeve	mm <sup>2</sup>	2.5 - 50
Conductor cross section solid (solid, stranded)	mm <sup>2</sup>	2.5 - 50
Number of clamp positions per pole		2
With PE-rail		No
With N-rail		No