DATASHEET - BF-U-5/120-C

Complete flush-mounted flat distribution board, white, 24 SU per row, 5 rows, type C

Powering Business Worldwide™

Part no. BF-U-5/120-C
Catalog No. 283050

Delivery program

Basic function			Basic device
Product function			Installation distribution boards
Product range			BF flat DBO
Design			Hollow wall Flush mounted
Installation site			Indoor
Type of installation			Hollow-wall mounting and flush mounting
Door/Flap			White
Degree of Protection			IP30
Colour			White
Module rack			Rail-frame
Shroud for protection against accidental contact			Metal
Rows	Count		5
Module units per row			24
Description			IP30 Protection Class I Steel sheet enclosure white (RAL 9016)
Cable entries			Cable entries on top and bottom
PE and N terminals design			Screw terminals
PE and N terminals	Number x cross-sectional area	mm^2	PE: 2 x 25 + 43 x 16 N: 2 x 25 + 43 x 16
Equipment supplied			Wall trough with door frame Door with three-point turn-lock DIN rail mounting frame Front plates Neutral-/protective conductor terminal

Technical data

General

Standards			IEC/EN 61439-1, IEC/EN 61439-3, IEC/EN 62208
RoHS (in accordance with Directive 2002/95/EC of the European Parliament and Council)			conform
Ambient temperature		°C	-5 - +40
Degree of Protection			IP30
Protection class			I (earthed)
Rated operational voltage	Ue	V AC	415
Rated frequency	f	Hz	50/60

Material characteristics

Material			Sheet steel, powder-coated
Colour			white (RAL 9016)

Material properties

Mechanical			
Impact resistance			IK07

Design verification as per IEC/EN 61439

Technical data for design verification			
Heat dissipation, at an ambient temperature of 35°C, delta T: 20 degrees in top of the enclosure, calculated as per IEC 60890			
Individual enclosure, flush mounting	P_V	W	55
Heat dissipation, at an ambient temperature of 35°C, delta T: 35 degrees in top of the enclosure, calculated as per IEC 60890			

Individual enclosure, flush mounting	P_V	W	110
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
10.2.2 Corrosion resistance			Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures			Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat			Meets the product standard's requirements.
10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects			Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation			Not relevant to indoor installations.
10.2.5 Lifting			Does not apply to enclosures without lifting aids.
10.2.6 Mechanical impact			IK07
10.2.7 Inscriptions			Meets the product standard's requirements.
10.3 Degree of protection of ASSEMBLIES			IP30
10.4 Clearances and creepage distances			Is the panel builder's responsibility.
10.5 Protection against electric shock			< 0.1 Ω; meets the product standard's requirements.
10.6 Incorporation of switching devices and components			Is the panel builder's responsibility.
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 properties			
10.9.2 Power-frequency electric strength			U_i = 415 V AC
10.9.3 Impulse withstand voltage			Does not apply to basic enclosures as defined in EN 62208.
10.9.4 Testing of enclosures made of insulating material			Does not apply to metal enclosures.
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.
10.12 Electromagnetic compatibility			Is the panel builder's responsibility.
10.13 Mechanical function			Meets the product standard's requirements.

Technical data ETIM 8.0

Distribution boards (EG000023) / Small distribution board (EC000214)

Electric engineering, automation, process control engineering / Electrical installation, device / Electrical distribution system (incl. small distribution board) / Small distribution board (ecl@ss10.0.1-27-14-24-09 [ACN387011])

Mounting method			Flush mounted (plaster)
Number of rows			5
Width in number of modular spacings			24
Type of cover			Door
Cover model			Closed
Transparent cover/door			No
Material housing			Steel
Height		mm	930
Width		mm	600
Depth		mm	140
Built-in depth		mm	127
Built-in height		mm	870
Built-in width		mm	560
Internal depth		mm	127
Earthing terminal block			Yes
Neutral terminal block			Yes
DIN-rail			Yes
With mounting plate			No
Extension possible			No
EMC-version			Yes
Colour			White
RAL-number			9016
Degree of protection (IP)			IP30
With lock			No

Type of closure			Other
Signal passing door			No

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