DATASHEET - BF-U-4/96-E

Complete flush-mounted flat distribution board, white, 24 SU per row, 4 rows, type E

Part no.	**BF-U-4/96-E**
Catalog No.	**283054**

EATON
Powering Business Worldwide™

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	4
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 / mm²	N: 2 x 25 + 27 x 16 PE: 2 x 25 + 27 x 16
Equipment supplied		Wall trough with door frame Door with Profi-Line 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	48
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	96	

IEC/EN 61439 design verification

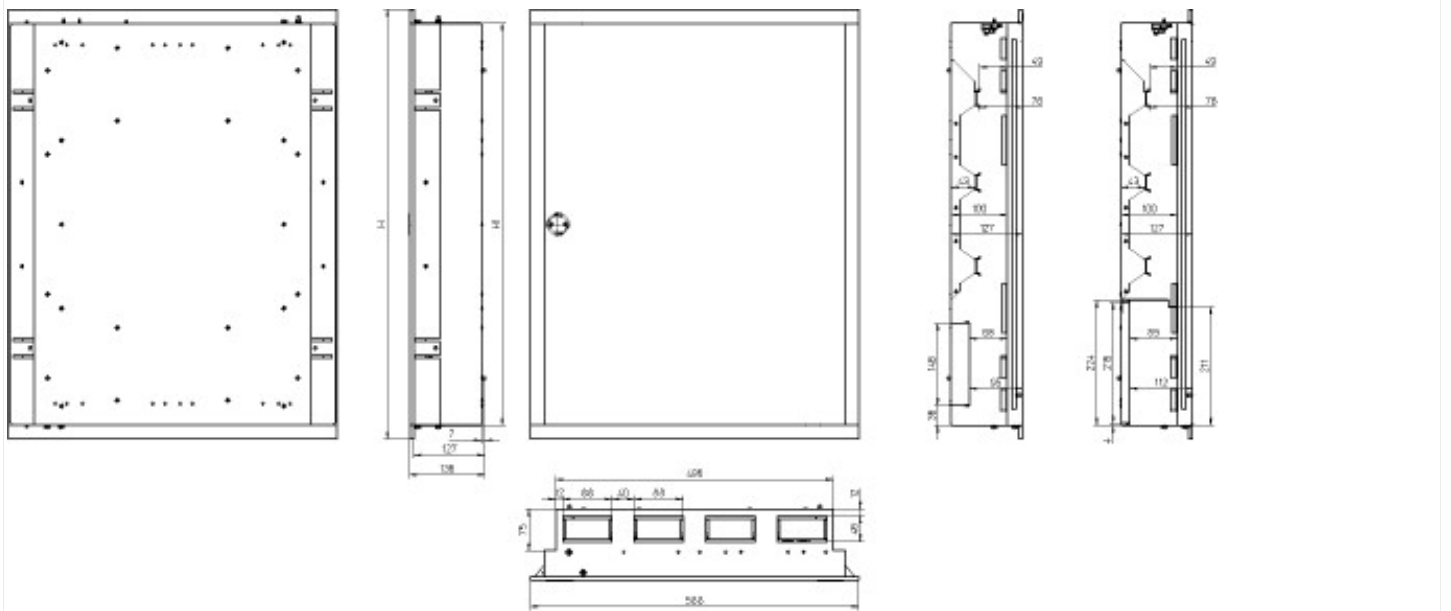|		
10.2 Strength of materials and parts		
10.2.2 Corrosion resistance		Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures		Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat		Meets the 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 7.0

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		4
Width in number of modular spacings		24
Type of cover		Door
Cover model		Closed
Transparent cover/door		No
Material housing		Steel
Height	mm	770
Width	mm	588
Depth	mm	136
Built-in depth	mm	127
Internal depth	mm	127
DIN-rail		Yes
With mounting plate		No
Extension possible		No
EMC-version		No
Colour		White
RAL-number		9016
Degree of protection (IP)		IP30
With lock		No
Type of closure		Other

Dimensions

Height H [mm] = 770
Height H1 [mm] = 720

Additional product information (links)

Product overview (Web)	http://www.eaton.eu/DE/Europe/Electrical/ProductsServices/Residential/index.htm