

# Specifications



Photo is representative



## Eaton 240739

Eaton xComfort BF LV systems Final Distribution Boards. Complete flush-mounted flat distribution board, white, 24 SU per row, 4 rows, type A

### General specifications

<b>PRODUCT NAME</b>	Eaton xComfort BF small distribution board
<b>CATALOG NUMBER</b>	240739
<b>MODEL CODE</b>	BF-U-4/96-A
<b>EAN</b>	4015082407391
<b>PRODUCT LENGTH/DEPTH</b>	795 mm
<b>PRODUCT HEIGHT</b>	160 mm
<b>PRODUCT WIDTH</b>	615 mm
<b>PRODUCT WEIGHT</b>	13.2 kg
<b>COMPLIANCES</b>	RoHS conform
<b>CERTIFICATIONS</b>	IEC/EN 62208 IEC/EN 61439-3 IEC/EN 61439-1



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## Delivery program

<b>TYPE</b>	<ul style="list-style-type: none"><li>• Basic device</li><li>• BF flat DBO</li><li>• Installation distribution boards</li></ul>
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<b>APPLICATION</b>	Indoor (installation site)
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<b>COLOR</b>	White Traffic white (RAL 9016)
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## Technical Data - Mechanical

<b>CLOSURE TYPE</b>	Other
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<b>WIDTH IN NUMBER OF MODULAR SPACINGS</b>	24
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<b>MOUNTING METHOD</b>	Flush mounted (plaster) DIN-rail Hollow-wall mounting and flush mounting Hollow wall Flush mounting
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<b>MATERIAL</b>	Sheet steel, powder-coated
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<b>DEGREE OF PROTECTION</b>	IP30 IK07 (impact resistance)
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<b>NUMBER OF MODULE SPACE UNITS PER ROW</b>	24
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<b>NUMBER OF ROWS</b>	4
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<b>TERMINAL TYPE</b>	Screw terminals
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<b>PE AND N TERMINAL NUMBER AND CROSS SECTION</b>	N: 2 x 25 mm <sup>2</sup> + 9 x 16 mm <sup>2</sup> PE: 2 x 25 mm <sup>2</sup> + 43 x 16 mm <sup>2</sup>
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<b>BUILT-IN DEPTH</b>	127 mm
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<b>BUILT-IN HEIGHT</b>	720 mm
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<b>BUILT-IN WIDTH</b>	560 mm
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<b>INTERNAL DEPTH</b>	127 mm
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<b>COVER/DOOR COLOR</b>	White
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<b>COVER/DOOR MODEL</b>	Closed
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<b>COVER/DOOR TYPE</b>	Door Single
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<b>MODULE RACK TYPE</b>	Rail frame
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<b>PROTECTIVE SHROUDING MATERIAL</b>	Metal
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## Technical Data - Electrical

<b>VOLTAGE RATING AT AC</b>	415 V AC
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<b>FREQUENCY RATING OF CONTACTS</b>	50 Hz / 60 Hz
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## Temperature-rise verification as per IEC 60890

<b>HEAT DISS. AMBIENT 35°C DELTA T:20°C FLUSH MOUNT INDIVID. ENCL. TOP(IEC 60890)</b>	48 W
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<b>HEAT DISS. AMBIENT 35°C DELTA T:35°C FLUSH MOUNT INDIVID. ENCL. TOP(IEC 60890)</b>	96 W
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## Design verification as per IEC/EN 61439 - technical data

**AMBIENT OPERATING TEMPERATURE DETAILS**      -5 °C - 40 °C

## Design verification as per IEC/EN 61439

<b>10.2.2 CORROSION RESISTANCE</b>	Meets the product standard's requirements.
<b>10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES</b>	Meets the product standard's requirements.
<b>10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT</b>	Meets the product standard's requirements.
<b>10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS</b>	Meets the product standard's requirements.
<b>10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION</b>	Not relevant to indoor installations.
<b>10.2.5 LIFTING</b>	Does not apply to enclosures without lifting aids.
<b>10.2.6 MECHANICAL IMPACT</b>	IK07
<b>10.2.7 INSCRIPTIONS</b>	Meets the product standard's requirements.
<b>10.3 DEGREE OF PROTECTION OF ASSEMBLIES</b>	IP30
<b>10.4 CLEARANCES AND CREEPAGE DISTANCES</b>	Is the panel builder's responsibility.
<b>10.5 PROTECTION AGAINST ELECTRIC SHOCK</b>	< 0.1 Ω; meets the product standard's requirements.
<b>10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS</b>	Is the panel builder's responsibility.
<b>10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS</b>	Is the panel builder's responsibility.
<b>10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS</b>	Is the panel builder's responsibility.
<b>10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH</b>	Ui = 415 V AC
<b>10.9.3 IMPULSE WITHSTAND VOLTAGE</b>	Does not apply to basic enclosures as defined in EN 62208.
<b>10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL</b>	Does not apply to metal enclosures.
<b>10.10 TEMPERATURE RISE</b>	The panel builder is responsible for the

## Additional information

<b>FEATURES</b>	EMC-version Earthing terminal block Neutral terminal block
<b>FITTED WITH:</b>	Neutral-/protective conductor terminal DIN rail mounting frame Door with three-point turn-lock Front plates Wall trough with door frame
<b>FUNCTIONS</b>	Basic device Sealable
<b>PROTECTION CLASS</b>	I (earthed)
<b>RAL-NUMBER</b>	9016
<b>SPECIAL FEATURES</b>	<ul style="list-style-type: none"><li>• IP30</li><li>• Protection Class I</li><li>• Steel sheet enclosure white (RAL 9016)</li></ul>
<b>USED WITH</b>	Basic device Installation distribution board BF flat distribution board

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.

## Resources

<b>BROCHURES</b>	<a href="#">eaton-xcomfort-compact-distribution-boxes-brochure-br014015en-en-us.pdf</a>
<b>DECLARATIONS OF CONFORMITY</b>	<a href="#">eaton-small-distribution-board-declaration-of-conformity-eu250311en.pdf</a> <a href="#">eaton-small-distribution-board-declaration-of-conformity-uk251449en.pdf</a>
<b>DRAWINGS</b>	<a href="#">eaton-xcomfort-bf-lv-systems-dimensions-003.eps</a>
<b>INSTALLATION INSTRUCTIONS</b>	<a href="#">eaton-xcomfort-bf-u-tm-instruction-leaflet-il170750600-z.pdf</a>

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**PROJECT NAME:**

**PROJECT NUMBER:**

**PREPARED BY:**

**DATE:**

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**Eaton Corporation plc** Eaton House  
30 Pembroke Road  
Dublin 4, Ireland  
Eaton.com

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