



TECHNICAL MANUAL

Bell transformer VT-230 EKF
PROXIMA

1 DESCRIPTION

Bell transformer VT-230 EKF PROXIMA is a DIN rail single-phase isolation transformer designed for intermittent use in doorbells and similar signaling applications. High-quality build and materials ensure reliable long-term operation. Bell transformer VT-230 EKF PROXIMA complies with IEC 61558-1 requirements.

2 TECHNICAL DATA

For technical data and product range, please see Tables 1 and 2 below.

Table 1

bt-230/15va	Bell transformer VT-230V/12-12V 15VA EKF PROXIMA
bt-230/30va	Bell transformer VT-230V/12-12V 30VA EKF PROXIMA

Table 2

Characteristics	Value	
Item code	bt-230/15va	bt-230/30va
Rated input voltage 2-5, V	230	
Rated output voltage 8-9, V	12	
Rated output voltage 9-11, V	12	
Rated power output 8-9, VA	7,5	15
Rated power output 9-11, VA	7,5	15
Rated frequency, Hz	50 / 60	
Total rated power output 8-11, P, VA	15	30
Max. output voltage deviation, %	±3	
Operating mode	Intermittent duty at P=100%, Continuous Duty at P=75%	
Degree of protection	IP20	
Operating temperature, °C	- 25 to + 50	
Weight, kg	0,347	0,541
Max. conductor cross-section, mm ²	4	
Max. tightening torque, N•m	1,7	

3 OVERALL DIMENSIONS

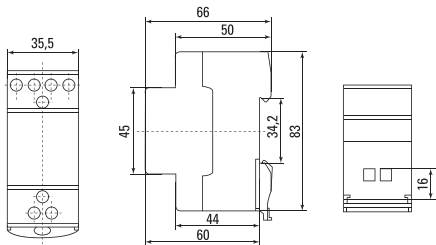


Figure 1. Overall dimensions of Bell transformer VT-230/15VA

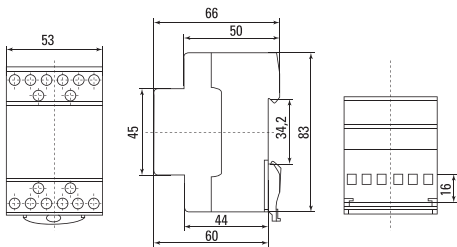


Figure 2 - Overall dimensions of Bell transformer VT-230/30VA

4 INSTALLATION AND CONNECTION

Both copper and aluminum wire connections are supported. Do not connect copper and aluminum wires concurrently to the same terminal.

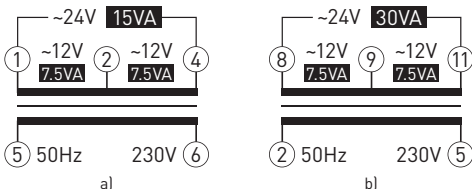


Figure 3 - Bell transformer wiring diagram: a) 15VA; b) 30VA

The bell transformer shall be installed and connected only by qualified electrical personnel.

Bell transformers shall be mounted onto 35 mm DIN rail.

5 OPERATION CONDITIONS

Operating temperature: -25 °C to +50 °C. Altitude above sea level: max. 2000 m.

Position in space: vertical or horizontal on a vertical plane.

6 DELIVERY SCOPE

Bell transformers are supplied in a group package. For all available documentation, scan the QR-code on the insert or on the inside of the package.

7 SAFETY REQUIREMENTS

Do not use or operate bell transformers with visible mechanical damage.

Bell transformers conform to IEC 61140 Class 0 for protection against electrical shock and must be installed in distribution enclosures with Class 1 protection or higher.

8 MAINTENANCE

For bell transformer maintenance, please follow national safety rules for operation of electrical Installations.

Under normal operating conditions, visually inspect the bell transformer and tighten the screw terminals every 6 months. Do not operate bell transformers with visibly damaged housing.

9 STORAGE AND TRANSPORTATION

Bell transformers can be transported by any means of enclosed transport that protects the packaged goods from mechanical impact and weather exposure. Bell transformers shall be stored indoors in the original packaging, at the ambient temperatures from -40°C to +55°C and relative humidity of max. 80% at +25°C.

10 DISPOSAL

Life-expired and failed bell transformers must be disposed of in compliance with the effective national and local laws and regulations.

To dispose of the product, send it to an authorized company for recycling in compliance with the effective national and local laws and regulations.

11 MANUFACTURER'S WARRANTY

Warranty period: 7 years from the date of sale specified in the sales receipt.

Shelf life: 7 years from the date of manufacture specified on the product package or housing.

Service life: 20 years.

Manufacturer: for information, refer to the product package.

Importer and EKF trademark service representative:

EKF ELECTRICAL SOLUTION – FZCO, Dubai Silicon Oasis, DDP, Building A2, Dubai, United Arab Emirates.

Importer and EKF trademark service representative on the territory of the Russian Federation:

000 «Electroresheniya», Otradnaya st., 2b bld. 9, 5th floor, 127273, Moscow, Russia. Tel.: +7 (495) 788-88-15.

Importer and EKF trademark service representative on the territory of the Republic of Kazakhstan:

TOO «Energoresheniya Kazakhstan», Kazakhstan, Almaty, Bostandyk district, Turgut Ozal st., 247, apt 4.

12 CERTIFICATE OF ACCEPTANCE

Bell transformers VT-230V/12-12V 15VA EKF PROXIMA and VT-230V/12-12V 30VA EKF PROXIMA have been approved for operation.

Date of manufacture:

for information, refer to the product package.

Stamp of technical supervision



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