



32 07xxxB0x

LEAN COLLECTION

Compact single-phase rectifiers

These compact half-wave and bridge rectifiers are ideal for installation in space restricted connection boxes of brake motors. They can be delivered with flying leads or terminals for connection. Various accessories are available for different installation conditions. All work must only be carried out by suitably qualified personnel. Make sure that no voltage is applied during connection. The specifications on the rating plate and the information provided in the circuit diagram or in the datasheet must be strictly observed.

Technical specifications

| Operating principle | | | half-wave and bridge rectifiers | | | | | |
|---------------------|---------------|---|---|--------------------------------|--|---------------------------|--|-----------------------------------|
| Fast switching | | | If available offswitching D.C over safety contact | | | | | |
| Ambient temperature | | | [°C] | -25... 90 | See derating (on 90C° are 60% of the output current permitted) | | | |
| Type | Rectification | Rated input voltage (max.) U ₁ / VAC (+10%) | Output voltage U ₂ / VDC | Max. output current I / ADC | Possible dc side switching | Installation | Connection | |
| 32 07102B00 | half-wave | 500 | $U_2 = 0,445 \cdot U_1$ | 1,0 | no | screws, accessories | flying leads, AWG20, 0.5 mm ² | |
| 32 07102B01 | | | | | | screws, accessories, clip | | |
| 32 07103B00 | bridge | | $U_2 = 0,890 \cdot U_1$ | 2,0 | | screws, accessories | | |
| 32 07103B01 | | | | | | screws, accessories, clip | | |
| 32 07302B00 | half-wave | | 415 | $U_2 = 0,445 \cdot U_1$ | | 1,0 | screws, accessories | terminals, 1.0 mm ² |
| 32 07302B01 | | | | | | | screws, accessories, clip | |
| 32 07303B00 | bridge | | | $U_2 = 0,890 \cdot U_1$ | | 2,0 | screws, accessories | |
| 32 07303B01 | | | | | | | screws, accessories, clip | |
| 32 07312B00 | half-wave | 240 | | $U_2 = 0,445 \cdot U_1$ | 1,0 | yes | screws, accessories | |
| 32 07312B01 | | | | | | | screws, accessories, clip | |
| 32 07313B03 | bridge | $U_2 = 0,890 \cdot U_1$ | 1,0 | screws, accessories | | | | |
| 32 07313B04 | | | | screws, accessories, clip | | | | |

CE

EMC Directive 2014/30/EU:

Compliance with the following standards is confirmed:

EN 50081-2 (Emission):
 EN 55011 (VDE 0875, part 11, 2011)
 Group 1, Class A conducted interference
 Group 1, Class B radiated interference
 EN 61000-6-2 (Immunity):
 EN 61000-4-3 (2011) severity level 4
 EN 61000-4-4 (2013) severity level 3
 EN 61000-4-5 (2015) severity level 3

Low Voltage Directive 2014/35/EU:

Compliance with the following standards is confirmed:
 HD 625.1 S1:2009 (VDE 0110) insulation coordination
 EN 60529 (2014) IP 54
 external mounting

Machinery Directive 2006/42/EC:

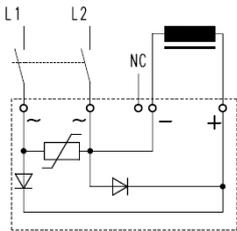
These products are considered components in the sense of Machinery Directive 2006/42/EC and must not be put into service until the machinery in which they are incorporated has been declared in conformity with the provisions of the EC Directives

ROHS

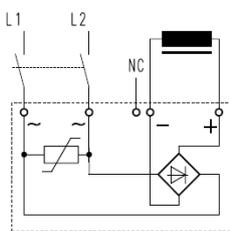
We hereby declare that the above-mentioned products comply with the requirements of the RoHS Directive 2011/65/EU on the restriction of the usage of certain hazardous substances in electrical and electronic equipment, assigned to equipment category 11.

Connection and block diagrams

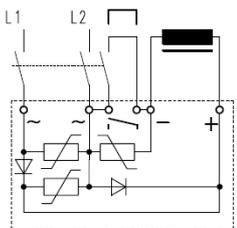
32 07x02Bxx



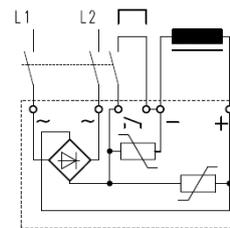
32 07x03Bxx



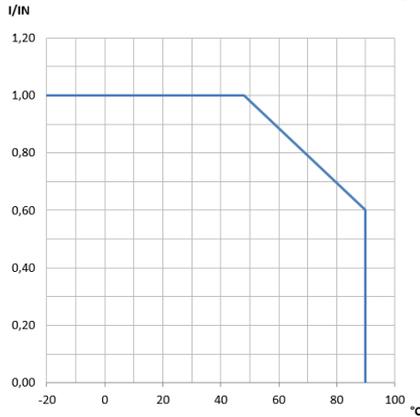
32 07x12Bxx



32 07x13Bxx



Max. current load under ambient temperature



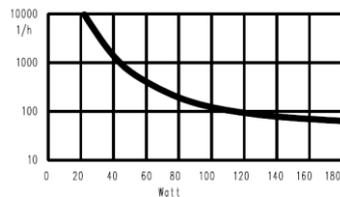
Ambient temperature

-25 to 50°C for rated load (up to 90°C with reduced load)

DC side switching

Specifications apply to types 32 07312B.. and 32 07313B.. with resistive/inductive load (KENDRION brakes series 76 431...H..)

Maximale Schaltzahl



Load max. 180 W
Cut-off voltage max. 700 V

Protection:

to EN 60529: IP 00

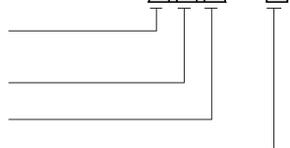
Subject to alternation.

Please observe ordering data!

Ordering example

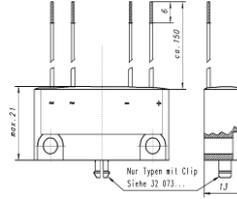
1 = flying lead
3 = terminal
0 = without DC side switching
1 = with DC side switching
2 = half-wave
3 = bridge
see specific version

single-phase rectifier
32 07 [] [] [] B0 []

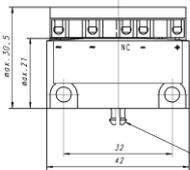


Dimensions (mm)

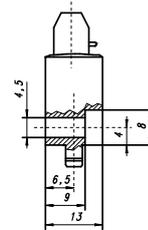
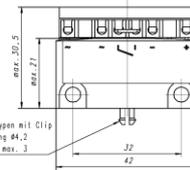
32 0710xBxx



32 0730xBxx



32 0731xBxx



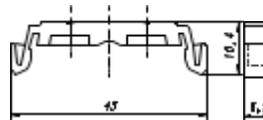
Accessories

Mounting rail clip:

32 07322A00103

Set of mounting clips for 35 mm mounting rails to EN 50022

1 set per rectifier



Figures similar to design

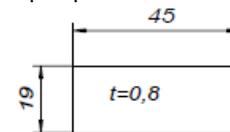
Adhesive pad:

32 07322A00104

Double-sided adhesive tape for installation on smooth surfaces

Dimensions 45 x 20 x 1mm³

1 pad per rectifier



Flying leads:

32 17221A03004

Set of 2 flying leads with self-retaining fork cable lug M4, preferably for rectifier connection to motor terminal board

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