



32 07322B40

UNIVERSAL COLLECTION

Single-phase rectifiers for universal use

These half-wave and bridge rectifiers are ideal for installation in the connection boxes of medium power brake motors, brakes and solenoids.

Accessories include flying leads and a variety of mounting hardware so that installation on DIN rails is also possible. Encapsulated versions offer an extended operating temperature range. In case of additional DC side fast disconnection, the induction voltage induced by inductive loads is internally limited.

Technical specifications

Operating principle		Half-wave and bridge rectifier			
Connection		6 clips max. 2,5 mm ² max. 0,4Nm			
Installation		Schrauben, Zubehör			
DC switching, cut-off voltage U _{0max} / V		350			
Type	Rectification	Output voltage U ₂ / VDC	Execution, Temperature range θ ₁₃ / °C	Rated input voltage U ₁ / VAC (+10%)	Max. output current at U ₁ I / ADC
32 07322B40	Half-wave	U ₂ = 0,445 · U ₁	Standard, unshed -40 ... 100	0 ... 240 400 500	2,0 1,5 1,2
32 07323B40	Bridge	U ₂ = 0,890 · U ₁	Standard, unshed -25 ... 100		
32 07332B40	Half-wave	U ₂ = 0,445 · U ₁	reinforced, unshed -40 ... 100		
32 07333B40	Bridge	U ₂ = 0,890 · U ₁			

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.

Protection

IP 00 to EN 60529

Accessories

Mounting rail clip 32 07322A00103

Set of mounting clips for 35mm mounting rail to EN50022.
1 set per rectifier

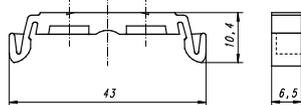
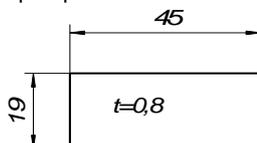


Figure similar to design

Adhesive pad:

32 07322A00104

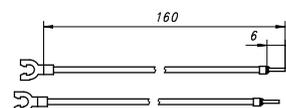
Double-sided adhesive tape for installation on smooth surfaces. Dimensions 45 x 20 x 1mm³.
1 pad per rectifier



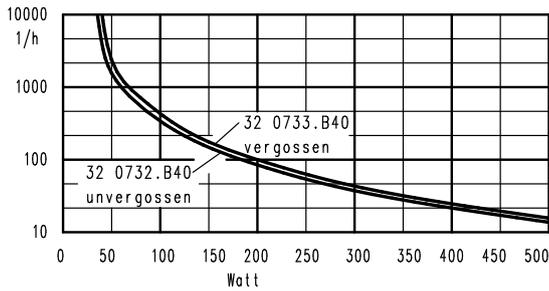
Flying leads:

32 17221A03004

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



Max. no. of switching operations

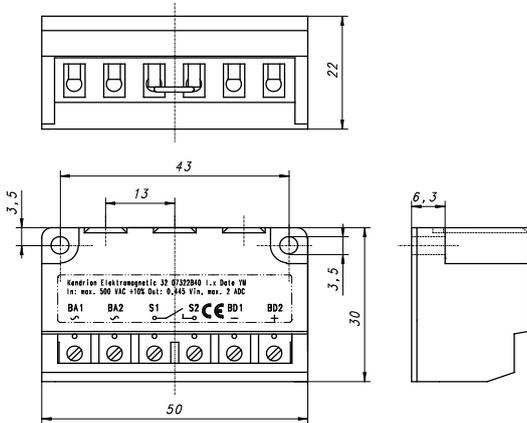


DC side switching

with resistive/inductive load for specific power (KENDRION series 76 431..H..) at $\vartheta_{13} \leq 40^\circ\text{C}$

Dimensions (mm)

All types



Connection and operation

Rectifiers with possible DC side switching are ideal for use with electromagnetic brakes of electric motors or with other electromagnetic components. The technical specifications depend on the connected loads and on their electric and mechanical properties. When electromagnetic brakes are operated in parallel with the motor without DC side switching, brake engagement may be significantly delayed after disconnection due to the generator function of the motor.

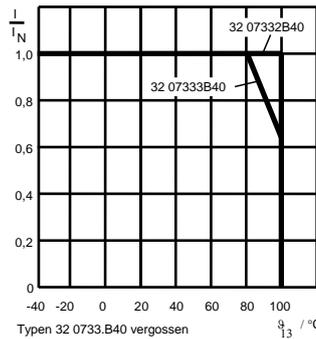
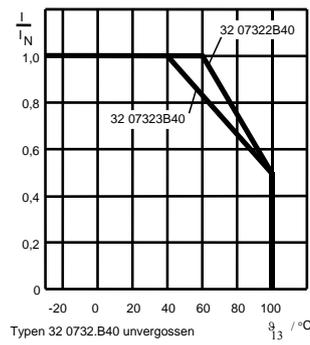
The mechanical time constants during brake release or engagement must be taken into consideration.

The maximum switching frequency of the rectifier merely defines a limit value for the dissipated power that can be absorbed by the rectifier.

Attention!

Rectifier operation must take place in such a way that the connected load is not overloaded and that any use of the load other than its intended use is avoided. Check that the rectifier pinout is correct. Incorrect connection would cause irreversible damage to the rectifier. The rectifiers are not short-circuit proof. Output short-circuit to ground will destroy the rectifier. 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.

Max. current load



Protection

IP 00 to EN 60529

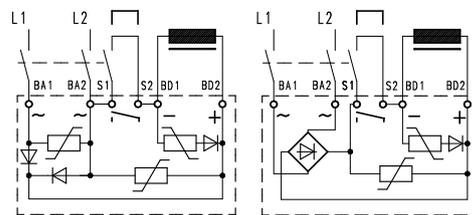
Subject to change without notice.

Please observe ordering data!

Connection and block diagram

32 073x2B40

32 073x3B40



Ordering example

single-phase rectifier
32 073 B40

2 = non-encapsulated standard version

3 = reinforced encapsulated version

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