

# 32 073xxB40 Product Specification



32 07322B40

## **Technical specifications**

#### 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.

Туре	Rectification	Rated input voltage	Max. output current at U <sub>1</sub>	Output voltage	Design, temperature range	DC side switching, disconnection voltage	Installation	Connections
		U <sub>1</sub> / VAC (+10%)	I / ADC	U <sub>2</sub> / VDC	<b>Ձ<sub>13</sub> / °C</b>	U <sub>0max.</sub> / V		
32 07322B40	half-wave	0 240 400 500	2.0 1.5 1.2	$U_2 = 0.445 \cdot U_1$	standard, non- encapsulated -25 100	350	screws, accessories	6 terminals max. 2.5mm² max. 0,4Nm
32 07323B40	bridge			$U_2 = 0.890 \cdot U_1$				
32 07332B40	half-wave			$U_2=0.445\cdotU_1$	reinforced, encapsulated -40 100			
32 07333B40	bridge			$U_2 = 0.890 \cdot U_1$				

## CE

## EMC Directive 2004/108/EEC:

Compliance with the following standards is confirmed: EN 50081-2 (Emission): EN 55011 (VDE 0875, part 11, 1992) Group 1, Class A conducted interference Group 1, Class B radiated interference EN 61000-6-2 (Immunity): EN 61000-4-3 (1997) severity level 3 EN 61000-4-4 (1996) severity level 3 EN 61000-4-5 (1996) severity level 3

## Low Voltage Directive 2006/95/EEC:

Compliance with the following standards is confirmed: HD 625.1S1 (1996), (VDE 0110) insulation coordination, EN 60529 (1991) IP 54 external mounting

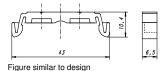
**Machinery Directive 2006/42/EC**: These products are considered components in the sense of Machinery Directive 2006/42/EC and must not be put into service until the machinery in which they are incorporated has been declared in conformity with the provisions of the EC Directives.

#### ROHS

The specified products comply with Directive 2002/95/EC (ROHS).

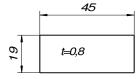
#### Accessories Mounting rail clip 32 07322A00103

Set of mounting clips for 35mm mounting rail to EN50022.



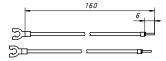
Adhesive pad: 32 07322A00104

Double-sided adhesive tape for installation on smooth surfaces. Dimensions 45 x 20 x 1mm<sup>3</sup>. 1 pad per rectifier



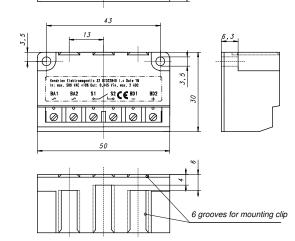
## Flying leads:

**32 17221 A03004** Set of 2 flying leads with selfretaining fork cable lug M4, preferably for rectifier connection to motor terminal board.





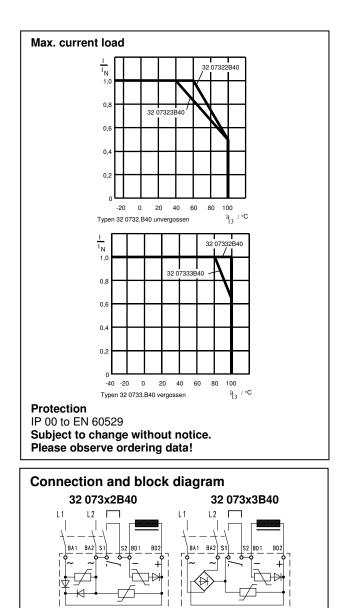
Max. no. of switching operations 10000 1/h 1000 32 0733.B40 veraossen 100 32 0732 B40 unvergossen 10 0 50 100 150 200 250 300 350 400 450 500 Watt DC side switching with resistive/inductive load for specific power (KENDRION series 76 431..H..) at 9<sub>13</sub> ≤ 40°C **Dimensions (mm)** All types 22 П В Н



## **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

Ordering example	single-phase rectifier 32 073 B40
2 = non-encapsulated standard version 3 = reinforced encapsulated version	
2 = half-wave 3 = bridge	



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.

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