

32 673x4B00 Product Specification



32 67304B00

Taahnigal angaifigatiang

UNIVERSAL COLLECTION

Hybrid half-wave/bridge rectifiers with internal DC side turnoff through voltage detection

These hybrid rectifiers deliver bridge or half-wave rectified voltage, depending on circuitry. They are ideal for installation in the connection boxes of brake motors, brakes and solenoids. The internal DC side turn-off ensures simple, straight forward rectifier connection. Accessories include flying leads and mounting hardware so that installation on DIN rails is also possible. Encapsulated versions for an extended operating temperature range are available as options. Thanks to the integral fast turn-off, the induction voltage generated by inductive loads is limited within the rectifier.

l echnical specifications								
Туре	Rectifi- cation	Rated input voltage (40 – 60 Hz) U ₁ / VAC (±10%)	Max. output current bridge / half- wave rectification I / ADC	Output voltage bridge / half-wave rectification U ₂ / VDC BD2 / BD2 2+ / 1+	Version, temperature range 9 ₁₃ / °C	Turn-off voltage / OFF voltage OFF delay U _{offmax} / VAC U _{0max} / V T _{off} / ms	Installation	Connections
32 67304B00	bridge / half-wave	220 500	1.0 / 1.0	U ₂ = 0.890 / 0.445 · U ₁	non- encapsulated, standard range -25 85	190 / 350 / 30	screws, accessories	6 terminals, max. 2.5 mm²
32 67334B00		220 500	1.0 / 1.0		encapsulated, extended range -30 100	190 / 350 / 30	screws, accessories	6 terminals, max. 2.5 mm ²

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).

Max. no. of switching operations and duty cycle with resistive/inductive load for specific power Reference: KENDRION series 76 431 .. H.. at specified max. ambient temperature



Max. current load



Protection IP 00 to EN 60529

Subject to change without notice

Please observe ordering data!





Operation and connection

Hybrid rectifiers with internal DC side switching are ideal for use with electromagnetic brakes of electric motors or with other electromagnetic devices. The technical specifications depend on the connected loads and on their electric and mechanical properties. If the rectifiers are used on electromagnetic brakes which are operated in parallel with the motor, brake engagement may be significantly delayed in the presence of driving loads when the motor operates in generator mode after turn-off. If the rectifiers are operated at a voltage below the permitted minimum operating voltage, uncontrolled turn-off of the voltage sensor may cause malfunctions or even irreversible damage to power transmission components. The mechanical time constants during brake release or engagement and during switching of the electromagnetic device 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. The dissipated power results from

All types	
Accessories	
Mounting rail clip:	Adhesive pad:

32 07322A00103 Set of clips for 35 mm mounting rails to EN 50022. 1 set per rectifier



Figure similar to design

32 07322A00104

Double-sided adhesive pad for installation on smooth surfaces Dimensions 45x20x1mm³ 1 pad per rectifier

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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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fast de-energisation of the connected electromagnetic devices by the internal voltage limiting system. Attention!

The rectifier must be operated as half-wave or bridge rectifier. Simultaneous operation of two loads connected to both outputs (half-wave and bridge output) is not allowed as this may cause overloading of internal components. 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.

As a rule, the mean power must not exceed the rated power of the connected load at the rated duty cycle. The mean current load of the rectifier must not exceed the specified rated holding current at the specified ambient temperature. Check that the rectifier pinout is correct. Incorrect connection would cause irreversible damage. The rectifiers are not short-circuit proof. Output short-circuit to ground will destroy the rectifier.

Ordering example	Hybrid rectifier with internal fast turn-		
	off voltage sensor		
	32 673 . 4B 0 .		
	ТТ		
0 = non-encapsulated standard version 3 = reinforced encapsulated version			
0 = 220 - 500 VAC			

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