



32 17350Exx 32 17353Exx

BINDER-μkroPower®

Single-phase rectifier

with overexcitation

The rectifiers with overexcitation, of the series 32 17350Exx, which are controlled via micro controller, serve to improve the switching function of electromagnetic devices.

They are available, upon request, for mounting rails and as litz version to be mounted on motors.

Technical specifications

Type 32 173..	Rectifier type	Rated input voltage (Tol.:±10%) U_1 (40-60Hz) V 1	Output voltage with over- excitation U_2 V —	Output voltage half-wave U_3 V —	Output current half- wave max. at		Over- excitation period*) (Tol.:±10%) t_{oes}	Over- excitation period*) (Tol.:±10%) Preconfigured / (with B2 changeable) t_{oes}	Installation
					R-Load I_A	L-Load I_A			
50E00	bridge / half-wave	220 - 415	$U_1 \cdot 0.89$	$U_1 \cdot 0.445$	2.3	3	0,25 / (1,0)	0.1	screwed connection
50E10	bridge / half-wave	220 - 415	$U_1 \cdot 0.89$	$U_1 \cdot 0.445$	2.3	3	1,0 / (0,25)	0.1	screwed connection
50E20	bridge / half-wave	220 - 415	$U_1 \cdot 0.89$	$U_1 \cdot 0.445$	2.3	3	1,8 / (3,0)	0.1	screwed connection
50E04	bridge / half-wave	48 - 120	$U_1 \cdot 0.89$	$U_1 \cdot 0.445$	2.3	3	0,25 / (1,0)	0.1	screwed connection
50E14	bridge / half-wave	48 - 120	$U_1 \cdot 0.89$	$U_1 \cdot 0.445$	2.3	3	1,0 / (0,25)	0.1	screwed connection
50E24	bridge / half-wave	48 - 120	$U_1 \cdot 0.89$	$U_1 \cdot 0.445$	2.3	3	1,8 / (3,0)	0.1	screwed connection
50E08	bridge / half-wave	480 - 525	$U_1 \cdot 0.89$	$U_1 \cdot 0.445$	2.3	3	0,25 / (1,0)	0.1	screwed connection
50E28	bridge / half-wave	480 - 525	$U_1 \cdot 0.89$	$U_1 \cdot 0.445$	2.3	3	1,8 / (3,0)	0.1	screwed connection
53E00	bridge / half-wave	220 - 415	$U_1 \cdot 0.89$	$U_1 \cdot 0.445$	2.3	3	0,25 / (1,0)	0.1	35mm mounting rails
53E04	bridge / half-wave	48 - 120	$U_1 \cdot 0.89$	$U_1 \cdot 0.445$	2.3	3	0,25 / (1,0)	0.1	35mm mounting rails
53E10	bridge / half-wave	220 - 415	$U_1 \cdot 0.89$	$U_1 \cdot 0.445$	2.3	3	0,25 / (1,0)	0.1	35mm mounting rails
53E14	bridge / half-wave	48 - 120	$U_1 \cdot 0.89$	$U_1 \cdot 0.445$	2.3	3	1,0 / (0,25)	0.1	35mm-mounting rails
53E33	bridge / half-wave	110 - 230	$U_1 \cdot 0.89$	$U_1 \cdot 0.445$	2.3	3	15,0 / (1,0)	0.1	35mm-mounting rails

*) other over-excitation periods upon request

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:

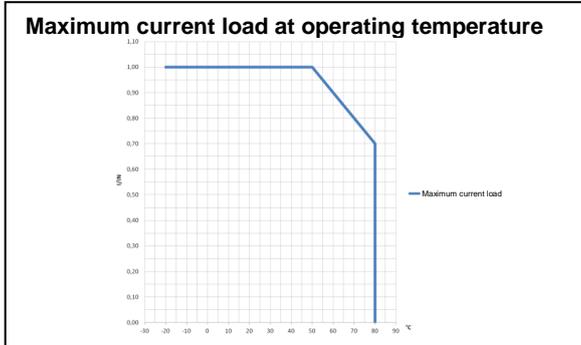
Compliance with the following standards is confirmed:

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).



Depending on the rating of the electromagnetic devices, they enable:

- reduced response times when switching on the power supply
 - increased pull-in force
 - a longer stroke
- or in comparison to operation under rated values:
- a reduction in power consumption
 - reduced thermal stress
 - longer service life

- abridged response times when switching off the power supply.

The overexcitation time can be determined for all versions via a link. The voltage is switched electronically from bridge connected to half-wave rectification.

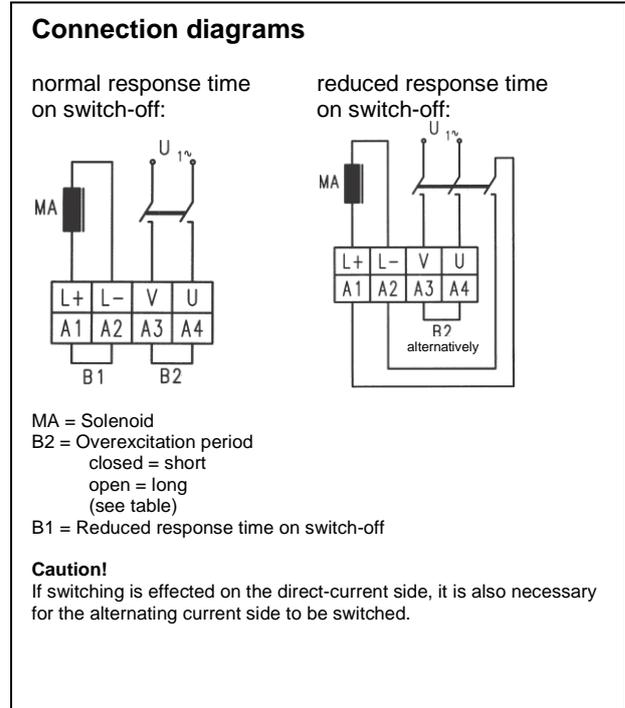
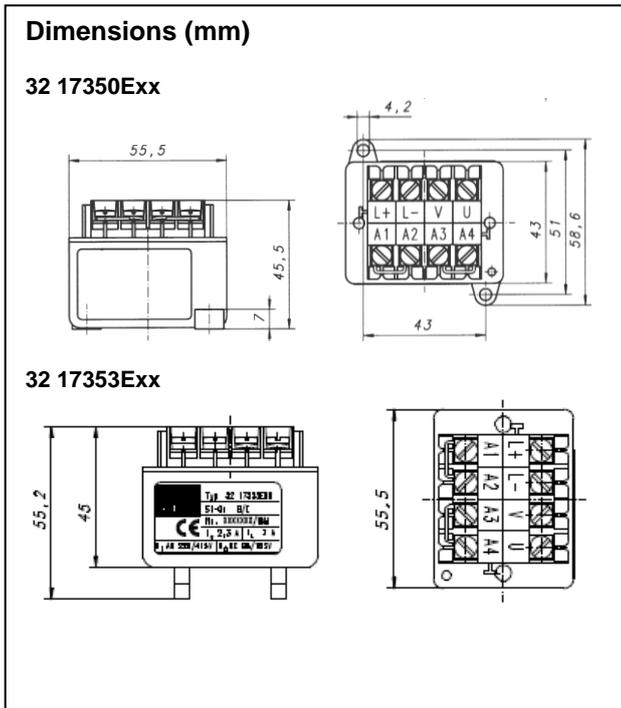
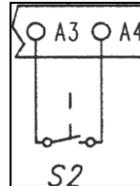
Control of the overexcitation period

If a (normally open) limit switch S2 is connected instead of the link B2, the following are possible for controlling the overexcitation period:

30 ms after the limit switch contacts are closed, the rectifier switches from overexcitation to half-wave (hold). If the contact does not close, then the switchover is effected after the long overexcitation period.

Switching operations of the contact S2 are detected at the soonest 60 ms after connecting the power supply to the terminals U - V. If the switch contact closes earlier, then the switchover to half-wave (hold) is effected at the latest after the short overexcitation period.

Connection of the limit switch:



Degree of protection
to EN 60529: IP 00 Rating with IP 65 upon request

Subject design modifications without prior notice.
Please note ordering data!

Order example Single-phase rectifier

32 17350E

0 or 2 as per table _____

0, 4 or 8 as per table _____