

32 17350E . . Product Specification



32 17350E ...

Single-phase rectifier with over-excitation

The rectifiers with over-excitation, of the series 32 17350E.. that 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.

BINDER-µikroPower®

Maximum current load at operating temperature



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 over-excitation 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 over-excitation period

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

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



CE

These products meet the requirements of the EMC code of practice 89/336/EWG. Compliance with the following standards is confirmed: DIN EN 55011 (VDE 0875, Part 11, 1992)

For all types: Group 1, Class A Disturbance voltage, Group 1, Class B Disturbance radiation. Only for types 3217350E00, 04, 20 and 24: Group 1, Class B Disturbance voltage, DIN EN 60801-2 (1993) Test severity level 3, DIN V ENV50 140 (1995) Test severity level 3, EN 61000-4-4 (1996) Test severity level 3, EN 61000-4-5 (1996) Test severity level 3

Degree of protection to EN 60 529: IP 00 Rating with IP 65 upon request

Subject to design modifications without prior notice.

Please note ordering data !



Technical Data

Model	Rectifier type	Rated input voltage (Tol.:±10%)	Output voltage with over-excitation	Output voltage half-wave	Output current half-wave max. at R-load L-load		Overexcitation period*) (Tol.:±10%)	Recovery period
		U ₁ (40-60 Hz)	U ₂	U_3	I	I	t _{oe}	t _p
		V 1~	V —	V —	A —	Α—	S	s
50E00	Bridge / Half-wave	220 - 415	U ₁ · 0.89 - 8%	U ₁ · 0.445	2.3	3	0.25 / 1	0.1
50E20	Bridge / Half-wave	220 - 415	U ₁ · 0.89 - 8%	U ₁ · 0.445	2.3	3	1.8/3	0.1
50E04	Bridge / Half-wave	48 - 120	U ₁ · 0.89 - 8%	U ₁ · 0.445	2.3	3	0.25 / 1	0.1
50E24	Bridge / Half-wave	48 - 120	U ₁ · 0.89 - 8%	U ₁ · 0.445	2.3	3	1.8/3	0.1
50E08	Bridge / Half-wave	480 - 525	U ₁ · 0.89 - 8%	U ₁ · 0.445	2.3	3	0.25 / 1	0.1
50E28	Bridge / Half-wave	480 - 525	U ₁ · 0.89 - 8%	$U_1 \cdot 0.445$	2.3	3	1.8/3	0.1

*) other over-excitation periods upon request

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Order example

Single-phase rectifier



0 or 2 as per table _ 0, 4 or 8 as per table _