

Transformer-based controllers

Description

Most ZIEHL-ABEGG external rotor motors are voltage controllable. For simple and cost-effective speed control of these motors and fans, transformer-based controllers are available. These can be supplied in various versions. In addition to versions that only generate the corresponding voltage by setting the 5-stage switch, there are also devices that can control dampers or valves.

Versions, that switch between two adjustable stages via an external contact, are also available. Versions, that are controlled via a 5-step thermostat, are also available. Another, great advantage of transformer-based control devices is speed control without electromagnetic excitation in the motors. The products are therefore also recommended for areas that are sensitive of noise.

Correspondingly, we supply thermostats which can be combined without the need of transformer-based controllers.

Equipment/Characteristics

Operating indicator lamp

for status indication. Device on/off.

Speed setting

The desired speed is set via the integrated 5-step switch. Devices with two adjustable speeds or devices with 0-10 V control can also be supplied.

Output voltage:

1~ units: 65 - 110 - 135 - 170 - 230 V

3~ units: 95 - 145 - 190 - 240 - 400 V

Please refer to the respective device connection diagram, depending on model.

Digitale Input

For external, floating contact to issue an authorisation for the preselected step (on/off); e.g. connect room thermostat SRE1G.

Digital input for frost protection

For external, floating contact. If a frost protection thermostat responds, the device switches off. Resetting to switch position 0 required to restore.

Integrated motor protection function

Connection facility for thermostat "TB"

Switched output in operation

Switched phase 1~ 230 V, max. 1 A, e.g. for damper servo-motor.

Change-over relay

Floating change-over relay, max. load 250 V AC, 2 A, to control external devices.

Optional supply of individual transformers

The type of transformers that are predominantly used in our control devices, can also be supplied individually. Please note that they are designed as special versions intended for control cabinet integration, including installation pad and connection terminal. There are 1~ 230 V transformers and 3~ 400 V transformers. For 3~ 400 V, two transformers are connected in a V-circuit.



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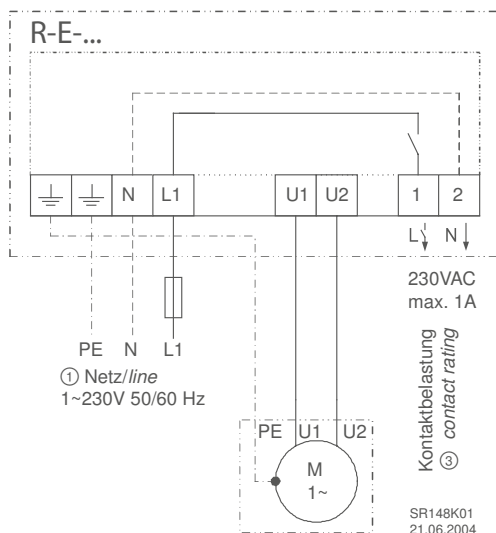
1~ with 5-step switch



Tranformer based controllers 1~ with 5- step-switch
1~ 230V 50/60Hz

Type	Article no.	Rated current A	Rated temperature °C	Max. line fuse A	Max. heat dissipation W	Maximum ambient temperature °C	Protection class	Weight kg	Dimensions (W x H x D) mm
R-E-1.5G	302001	1.5	40	4	20	40	IP54	1.74	105 x 180 x 98
R-E-2G	302107	2	40	16	20	40		2.10	166 x 230 x 118
R-E-3.5G	302108	3.5	40	16	30	40		3.50	166 x 230 x 118
R-E-6G	302109	6	40	16	35	40		4.90	166 x 230 x 118
R-E-7.5G	302053	7.5	40	8	40	40		6.00	240 x 284 x 132
R-E-9G	302055	9	40	16	50	40	IP21	10.50	270 x 323 x 162
R-E-12	302056	12	40	20	80	40		9.70	270 x 323 x 162
R-E-14G	302057	14	40	20	105	40		12.50	270 x 323 x 162

Connections / equipment see connection diagram



② 1~ Motor
ohne Thermokontakte
without thermocontacts

① Line
② 1~motor without thermal contacts
③ Contact load