



Type series FKE 31..

1,0 – 22 kW for integration



Steel-grid fixed resistor, degree of protection IP 00, with side plates for integration into a switch cabinet. Connection directly at the resistor.

② optional, the type designation would be FKE.U 31..

Technologies

- especially compact construction form, dimensions depend on number of installed steel-grids.
- small to middle power rating
- continuous power rating up to 22 kW
- integration into switch cabinet possible
- temperature switch optional (TS), with fast-on connectors 6,3x0,8; type designation would be FKEQ 31...

Each resistor can be delivered with 2 or more connection lugs. Depending on the current the lugs are equipped with M6 or M10 screws. The resistor is mounted in a cabinet by means of the two side plates.

Mounting of several partial resistors (e.g. 3-phases) into one resistor unit is possible. They are separated by insulation rolls.

You will find suggestions for the dimensioning of the resistor for short time load in chapter "Technical Details", pages T613E to T620E. For customer wiring you should use a heat resistant wire.

Application

Customized solutions like integrating a resistor unit into a switch cabinet, when a very compact construction form is needed.

Thus various kinds of solutions are possible for many applications such as:

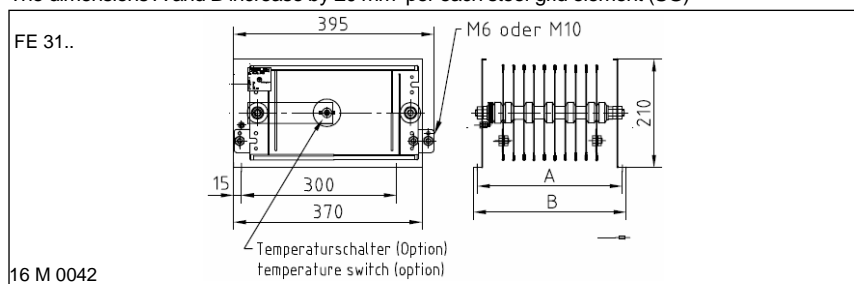
- load resistors
- charging or discharging resistors
- braking resistors
- starting and regulating resistors etc.
- damping resistors

Electrical and mechanical data

type FKE 3.. without TS, FKEQ 3.. with TS	typical power in kW at 40°C and 100% DCF	production range Ω-value		number of steel-grids corresp. to given device size	dimensions in mm		max. weight in kg
		from	to		A	B	
FKE. 31503..	1,5	0,07	16	3	147	162	4,4
FKE. 31504..	2,0	0,09	22	4	167	182	5,0
FKE. 31005..	2,5	0,11	28	5	187	202	5,6
FKE. 31007..	3,5	0,15	39	7	227	242	6,8
FKE. 31009..	4,5	0,20	50	9	267	282	7,9
FKE. 31112..	6,0	0,26	67	12	327	342	9,7
FKE. 31114..	7,0	0,31	78	14	367	382	10,8
FKE. 31216..	8,0	0,35	89	16	407	423	12,0
FKE. 31220..	10,0	0,44	112	20	487	503	14,3
FKE. 31224..	12,0	0,53	134	24	567	583	16,6
FKE. 31326..	13,0	0,57	145	26	607	623	17,8
FKE. 31330..	15,0	0,66	168	30	687	703	20,1
FKE. 31334..	17,0	0,75	190	34	767	783	22,4
FKE. 31436..	18,0	0,79	201	36	807	823	23,6
FKE. 31440..	20,0	0,88	224	40	887	903	25,9
FKE. 31444..	22,0	0,97	246	44	967	983	28,2

This table represents only a selection of our program. All numbers of steel-grids between 2 pc. (1,0 kW) und 44 pc. (22 kW) corresponding to our types are available. Type code and selection of units see Technical Details pages T613E to T620E.

The dimensions A and B increase by 20 mm per each steel-grid element (SG)



Example of dimensioning and selection of a specific unit:

Three phase load resistor: for 3 x 3,0 kW = 9,0 kW for 3 x 230/400 V; 50 Hz, 3 x 13 A, 3 x 17,8 Ω, (Rcold=16,9) starpoint on connection lug:
selected: 3 S26 – 2,7 Ω + 4 S25 – 2,2 Ω = 16,9 Ω; 3 x 7 SG
type FKE 3122104 – 3 x 17,7 with typical power 3 x 3,0 kW, connection on 4 connection lugs at the resistor (value Rwanted)

FKE 312 21 04 - 3 x 17,8

