

Type series FKEY 31..



Technologies

- for high energy absorption capacity
- for high continuous currents
- continuous dissipation up to 19,5 kW
- for integration into switch cabinets
- optional with temperature switch (TS) with fast-on connections 6,3x0,8, type FKEYQ 31.. (Restrictions see on page T614E)

Each resistor device can be equipped with 2 or more connecting lugs. The connections are made with screws M12 at the mounted connecting lugs. The resistor is mounted by means of two side plates.

We achieve a wide range of resistance values and wattage rating by variation of number of steel-grids and resistance values.

Combining of several partial resistors (e.g. 3 phases) in 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", please look on page T613E up to T618E. 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 design is needed.

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

- FRT resistor
- crowbar resistor
- load resistor
- charge-/discharge resistor
- current limiting resistor

1,0 - 19,5 kW, up to 7,8 MWs, for integration, low ohmic values, high energy absorption capacity



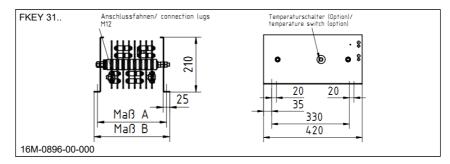
Steel-grid fixed resistor block, with side plates, in protection degree IP 00 for high energy absorption capacity, for integration into switch cabinets. Connection directly at the resistor. With 2 additional conducting rolls.

^② in preparation

Electrical and mechanical data

type	one-time energy		typical power	production range		max. number	dim. in mm		max. weight
FKEY 3	absorption		in kW	mΩ-value		of steel-			in kg
without TS,	capacity in		at			grids			5
	kWs		40°C			corresp.			
FKEYQ 3	from	up to	and	from	to	to given	А	в	
with TS			100%	nom	10	device	~	D	
			ED			size			
FKEY. 31502	300	400	1,0	4,4	200	2	140,5	157	8,0
FKEY. 31004	600	800	2,0	8,8	400	4	184,5	201	10,3
FKEY. 31006	900	1200	3,0	8,8	600	6	228,5	245	12,8
FKEY. 31008	1200	1600	4,0	13,2	800	8	272,5	289	15,3
FKEY. 31110	1500	2000	5,0	17,6	1000	10	316,5	333	17,8
FKEY. 31112	1800	2400	6,0	22	1200	12	360,5	377	20,3
FKEY. 31216	2400	3200	8,0	26,4	1600	16	448,5	465	25,3
FKEY. 31221	3150	4200	10,5	30,8	2100	21	566,5	583	31,5
FKEY. 31326	3900	5200	13,0	39,6	2600	26	676,5	693	37,8
FKEY. 31330	4500	6000	15,0	48,4	3000	30	764,5	781	42,8
FKEY. 31433	4950	6600	16,5	52,8	3300	33	830,5	847	46,5
FKEY. 31436	5400	7200	18,0	61,6	3600	36	896,5	913	50,3
FKEY. 31439	5850	7800	19,5	85,8	3900	39	962,5	979	54,2

This table represents only a selection of our program. All numbers of steel-grids between 2 pcs.. (1,0 kW) and 39 pcs. (19,5 kW) corresponding to our types are available. For the type code and selection of units you will be assisted by us.



Example of dimensioning and selection of a special unit:

Load resistor for battery, single phase, for continuous dissipation 10 kW, for 32 V DC, resistor value 0,1 Ω ; Rcold = 0,95 x Rsoll = 0,95 x 0,1 Ω = 0,095 Ω ; selected: 20 x S305G – 0,0047 = 0,94 Ω , with each 0,5 kW in total 10 kW, type FKEY 3122002 – 0.1, connections on 2 lugs with connection screws M12 at the resistor

