



Type series FEY 31..

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



Steel-grid fixed resistor block in protection degree IP 00 for high energy absorption capacity, for integration into switch cabinets, devices or ventilation ducts. Connection directly at the resistor.

② in preparation

### Technologies

- for high energy absorption capacity
- for high continuous currents
- integration and combinations possible
- for integration into switch cabinet
- continuous dissipation up to 19,5 kW
- energy absorption capacity with  $\Delta T = 300$  K, up to 7,8 MWs
- optional with temperature switch (TS) with fast-on connections 6,3x0,8, type FEYQ 31...

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 integration in a switch cabinet, machine or in a duct is made by means of 2 threaded bolts M12.

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

The given power rating values are valid for 100%CD (continuous dissipation). For short time operation you will find the values in the following table as a function of the duty cycle factor (DCF). Just multiply by the corresponding overload factor (OLF).

DCF	60%	40%	25%	15%	6%
OLF	1,5	2,2	3,0	4,0	7,6

These overload factors are valid for a total cycle time of maximum 120 s

#### Warning:

Not more than 3 resistor blocks should be mounted on top of each other!

For customer wiring you should use a heat resistant wire.

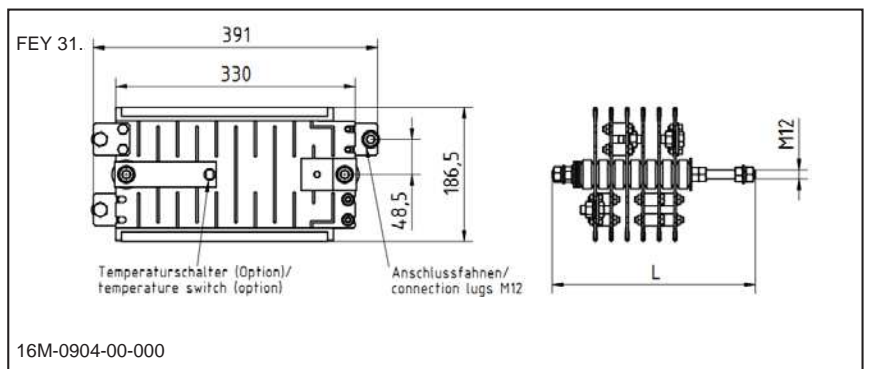
### Application

- filter resistor
- FRT resistor
- Crowbar resistor
- load resistor
- charge/discharge resistor
- current limiting resistor

### Electrical and mechanical data

Type	one-time energy absorption capacity in kW		typical power in kW at 40°C and 100%ED	production range mΩ-value		max. number of steel-grids corresp. to given device size	dim. in mm L	max. weight in kg
	from	up to		from	to			
FEY 3.. without TS, FEYQ 3.. with TS								
FEY. 31502..	300	400	1,0	4,4	200	2	180	3,6
FEY. 31504..	600	800	2,0	8,8	400	4	180	6,0
FEY. 31006..	900	1200	3,0	13,2	600	6	280	9,9
FEY. 31008..	1200	1600	4,0	17,6	800	8	280	12,3
FEY. 31110..	1500	2000	5,0	22	1000	10	380	14,9
FEY. 31112..	1800	2400	6,0	26,4	1200	12	380	17,3
FEY. 31216..	2400	3200	8,0	35,2	1600	16	580	22,5
FEY. 31221..	3150	4200	10,5	46,2	2100	21	580	28,5
FEY. 31326..	3900	5200	13,0	57,2	2600	26	780	35,0
FEY. 31330..	4500	6000	15,0	66	3000	30	780	39,8
FEY. 31433..	4950	6600	16,5	72,6	3300	33	980	44,0
FEY. 31436..	5400	7200	18,0	79,2	3600	36	980	47,6
FEY. 31439..	5850	7800	19,5	85,8	3900	39	980	51,2

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 from us.



### Example of dimensioning and selection of a special unit:

Three phase filter resistor, for 3 x 1,0 kW and 3 x 690 V AC, resistor value 3 x 35 mΩ; selected: 3 x 2 S312G – 0,018 with each 0,5 kW ( $\Sigma 3 \times 1$  kW) = 3 x 36 mΩ; type FEY 3100606 – 3 x 0.036 with continuous dissipation 3 x 1,0 kW, connection on 6 connection lugs with screws M12 at the resistor

