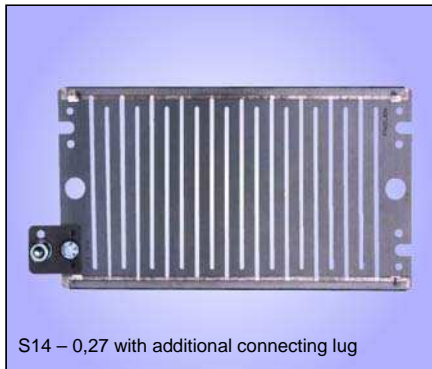




Steel-grid fixed resistor elements S 1 – S 30

500 W for integration



Steel-grid fixed resistor element, degree of protection IP 00, for integration into units. Connection at the resistor

Technologies

- particularly flat design
- overload resistant
- continuous dissipation 500 W^①
- energy absorption capacity with $\Delta T = 300$ K, from 50 up to 70 kW
- integration possible

As accessories we deliver 1 or 2 lugs to each resistor element with connection screws M10 (S 1 - S 10) or M6 (S 11 - S 30). Normally they are not fixed, we will fix them upon request.

We produce steel-grid fixed resistor elements in a wide range of resistance values of 0,022 Ω up to 5,6 Ω and a typical power of 500 W^① per grid.

The given nominal ohmic values are about 8% above the value of cold condition and 7% below the value of operating temperature. The production tolerance is $\pm 10\%$.

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

Please consider the different designs and construction forms of the following series.

The indicated ratings are valid for an ambient temperature of max. 40° C at sufficient ventilation. The indicated values for the duty cycle factor (%DCF) are preferred values and refer to a maximum total cycle time of 120 s.

You will find further indications for dimensioning of a resistor for short time dissipation in chapter Technical Details pages T613E to T620E.

Electrical and mechanical data

typical power ^①	% DCF	100	60	40	25	15	6	recomm. connection screws...
	[W]	500	750	1100	1500	2000	3800	
type	Ω	Max. current in amp. with 40°C UT and sufficient ventilation						
S 1 – 0,022	0,022	122	150	183	211	250	344	M10
S 2 – 0,027	0,027	122	150	183	211	250	344	M10
S 3 – 0,033	0,033	122	150	183	211	250	344	M10
S 4 – 0,039	0,039	112	138	168	194	230	315	M10
S 5 – 0,047	0,047	102	126	153	177	210	287	M10
S 6 – 0,056	0,056	94	115	140	163	193	265	M10
S 7 – 0,068	0,068	85	105	127	147	174	240	M10
S 8 – 0,082	0,082	77	96	115	133	158	217	M10
S 9 – 0,10	0,10	70	87	105	121	144	197	M10
S 10 – 0,12	0,12	64	79	96	111	131	180	M10
S 11 – 0,15	0,15	57	71	85	99	117	160	M6
S 12 – 0,18	0,18	52	65	78	90	107	146	M6
S 13 – 0,22	0,22	47	58	71	81	96	132	M6
S 14 – 0,27	0,27	42	53	63	73	86	118	M6
S 15 – 0,33	0,33	38	48	58	68	79	108	M6
S 16 – 0,39	0,39	35	44	53	62	73	100	M6
S 17 – 0,47	0,47	32	40	48	55	65	90	M6
S 18 – 0,56	0,56	29	37	44	51	60	83	M6
S 19 – 0,68	0,68	27	33	41	47	55	76	M6
S 20 – 0,82	0,82	24	30	36	42	49	67	M6
S 21 – 1,0	1,0	22	27	33	38	45	62	M6
S 22 – 1,2	1,2	20	25	30	35	41	56	M6
S 23 – 1,5	1,5	18	22,5	27	31	37	51	M6
S 24 – 1,8	1,8	16,5	20,5	25	28	34	46	M6
S 25 – 2,2	2,2	15	18,5	23	26	31	42	M6
S 26 – 2,7	2,7	13,5	16,5	20	23	27	37	M6
S 27 – 3,3	3,3	12	15	18	21	25	34	M6
S 28 – 3,9	3,9	11	14	16	19	23	31	M6
S 29 – 4,7	4,7	10	12,5	15	18	21	28	M6
S 30 – 5,6	5,6	9,3	11,3	13,7	16	18,6	25	M6

^① only valid for S3 – S30

