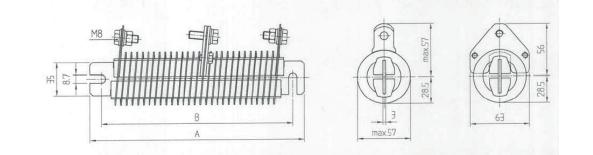
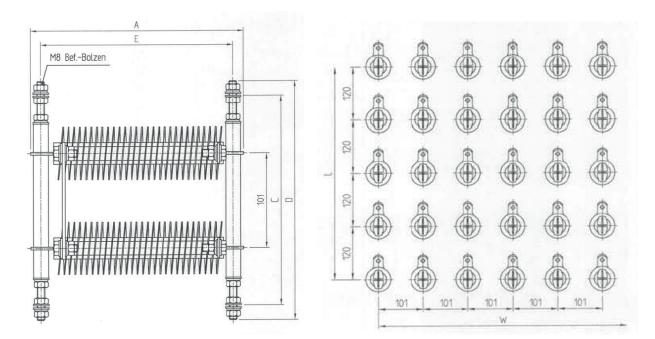




TECHNICAL DESIGN







GENERAL FEATURES

Production and Assembly

Our spiral resistors consist of a steel frame with ceramic supports that hold in place the special resistive plate with rib winding. The resistors can be delivered as single pieces or in a package holding from two to six units, on request, with perforated sheet metal protection and additional terminals welded or attached with screws.

Characteristics

- Nominal range of power: 110 to 2225 W
- Standard tolerance: ±10% (lower tolerances are available)
- The design allows for high operating temperatures

Use

- · Additional stator resistors to limit incoming current
- · Start up and adjustment resistors
- · Resistors for high power resistive plants with forced air cooling

Relative documents

- · Model ZO Spiral Resistor Technical Card
- · Design quoted: combinations
- · Card: Model 3ZO casing

Assembly

- · Promatized steel frame, passivated blue with ceramic supports
- · Special resistive plate with rib winding
- · Welded terminals

Production

- · Normally produced with welded terminals
- · On request:
- with sockets welded or fixed with screws
- in packages with 2 to 6 units

Current reduction in the event of mechanical combinations

The approximate percentile reduction of current to be taken into consideration in the event of assembly of combinations with horizontal "W" resistors and vertical "L" resistors is indicated below. The distances indicated must be observed.

TYPE	Dimensions				
TIPE	Α	E			
ZO.1	118	95			
ZO.2	191	168			
ZO.3	266	243			
ZO.4	338	315			
ZO.5	413	390			
ZO.6	486	463			
ZO.7	560	537			
ZO.8	634	611			
ZO.9	709	686			

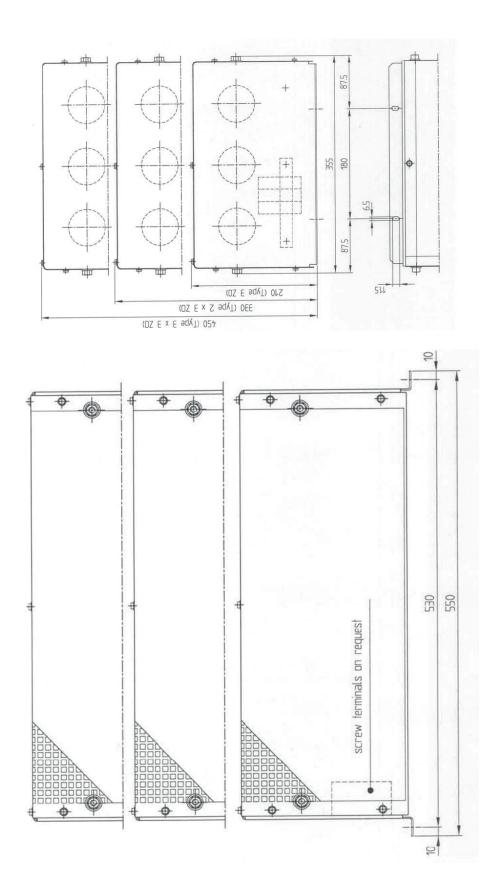
91	100					
66	243	Nr. of	Dimensions			
38	315	units	С	D		
13	390	2	228	254		
86	463	3	330	355		
60	537	4	431	457		
34	611	5	533	558		
09	686	6	635	660		

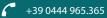
L N	2	3	> 3		
2	-	3 %	5 %		
3	3 %	8 %	15 %		
4	8 %	10 %	20 %		
5	10 %	15 %	25 %		





TECHNICAL DESIGN







GENERAL FEATURES

Туре			ZO.1	ZO.2	ZO.3	ZO.4	ZO.5	ZO.6	ZO.7	ZO.8	ZO.9	
Pos.	T _u = 300 °C	Charge at 20°C and 400 °C	d ∆T 500 °C	Available resistance values*								
1	I _N [A] 64	I _N [A] 80	I _N [A] 96	R027	R027 R066 R109 R146 R185 R225 R265 R305 R346							R 346
2	47	58	70	R027	R 093	R 152	R 205	R 26	R 315	R 365	R 42	R 48
3	37	46	56	R 052	R 13	R21	R 285	R 36	R 44	R 51	R 59	R 67
4	33	41	50	R07	R 17	R 28	R 385	R 49	R 59	R 69	0 R 8	R 91
5	31	38	46	R102	R 256	R415	R 57	R 72	R 87	1 R 01	1 R 18	1 R 34
6	28	34	41	R133	R 332	R 54	R 735	R 93	1 R 13	1 R 32	1 R 52	1 R 74
7	24	29	35	R176	R 44	R72	R 985	1 R 24	1 R 5	1 R 76	2 R 03	2 R 31
8	22	27	33	0R2	0R5	0 R 8	1 R 1	1 R 38	1 R 68	1 R 97	2 R 26	2 R 57
9	17	21	26	0R3	R 75	1R2	1 R 65	2 R 08	2 R 52	2 R 96	3 R 5	3 R 86
10	15	18	22	0R4	1R0	1R6	2 R 2	2 R 78	3 R 35	3 R 94	4 R 52	5 R 15
	Tolerance K (± 10%), tichter tolerances on request											
	Temperature coefficient Pos.1 + 2: +20 ppm / Pos.3 + 4: +730 ppm / Pos.5 –10: +100 ppm											
Dielectric strength 3 kV / 50 Hz / 1 Minute												
Surface temperature Welded conne					nnectors: 60	ectors: 600 °C / Screwed connectors : 400 °C						
Dimensions A			isions A	118	191	266	338	413	486	560	634	709
В			В	94	167	242	314	389	462	536	610	685

*Other resistance values on request

