SGM Series

Stamped Grid Module Resistors

Stamped grid brake resistors consist of several plates, fitted on steel rods, separated by ceramic rings. To insure a good electrical connection, plates are welded together in a combination of series or parallel depending on the ohm value. Stamped grids are offered in two main materials, AISO 304 and Cr-AL alloy. These resistor grids can be used in different applications such as dynamic braking, brake choppers or crowbars. Our brake resistors are offered as open units or with an enclosure. The enclosure is NEMA 3R rated and is suitable for indoor and outdoor application. Standard enclosures are manufactured from galvanized steel, stainless steel 304 available upon request

SERIES SPECIFICATIONS

Length	# Units	# grids	Pnom	AISI304 max R	Cr-Al max R	Maximum power, cycle time 120 sec. 10s	20s	40s	60s	80s
					LASER CUT					
390mm										
	1	10	5kW	31Ω	29Ω	40kW	19kW	11kW	8kW	7kW
	2	20	9kW	62Ω	58Ω	65kW	33kW	19kW	14kW	11kW
	3	30	13kW	93Ω	86Ω	100kW	50kW	28kW	20kW	17kW
	4	40	15kW	125Ω	115Ω	120kW	60kW	33kW	24kW	20kW
590mm										
	1	20	10kW	62Ω	58Ω	75kW	40kW	22kW	16kW	13kW
	2	40	17 kW	125Ω	115Ω	130kW	65kW	35kW	27kW	22kW
	3	60	25kW	187Ω	173Ω	190kW	95kW	55kW	40kW	33kW
	4	80	30kW	249Ω	231Ω	230kW	120kW	65kW	50kW	40kW
800mm										
	1	34	17kW	106Ω	98Ω	130kW	65kW	35kW	27kW	22wkW
	2	68	29kW	212Ω	196Ω	220kW	110kW	65kW	45kW	40kW
	3	102	45kW	318Ω	294Ω	350kW	170kW	100kW	70kW	60kW
	4	136	50kW	424Ω	392Ω	380kW	190kW	110kW	80kW	65kW
					STAMPED					
400mm										
	1	18	3kW	2.7Ω	4.7Ω	22kW	11kW	6kW	5kW	4kW
	2	36	5kW	5.3Ω	9.5Ω	40kW	19kW	11kW	8kW	6kW
	3	54	7kW	8.0Ω	14.2Ω	55kW	28kW	16kW	12kW	10kW
	4	72	9kW	10.6Ω	19.0Ω	65kW	33kW	19kW	14kW	11kW
600mm										
	1	34	5kW	5.0Ω	9.0Ω	40kW	21kW	12kW	9kW	7kW
	2	68	9kW	10Ω	18Ω	70kW	35kW	21kW	15kW	12kW
	3	102	14kW	15Ω	27Ω	110kW	55kW	30kW	22kW	18kW
	4	136	16kW	20Ω	36Ω	130kW	65kW	50kW	26kW	21kW

CHARACTERISTICS

Working voltage	1000VAC / 1400VDC
Dielectric test	3kV 50Hz, 1 minute
Thermal coefficient	(1/°C); AISI 304: 1100ppm; Cr-Al: 145ppm
Standards reference	IEC 60071-1 Insulation coordination
Deratiinig at altitude	According IEE Std. 32
Resistor tolerance	±10% std.; others on request
Resistor materials	AISI-304 / Cr-Al; value dependent
Enclosure materials	Galvanized steel std.; others on request

(continued)

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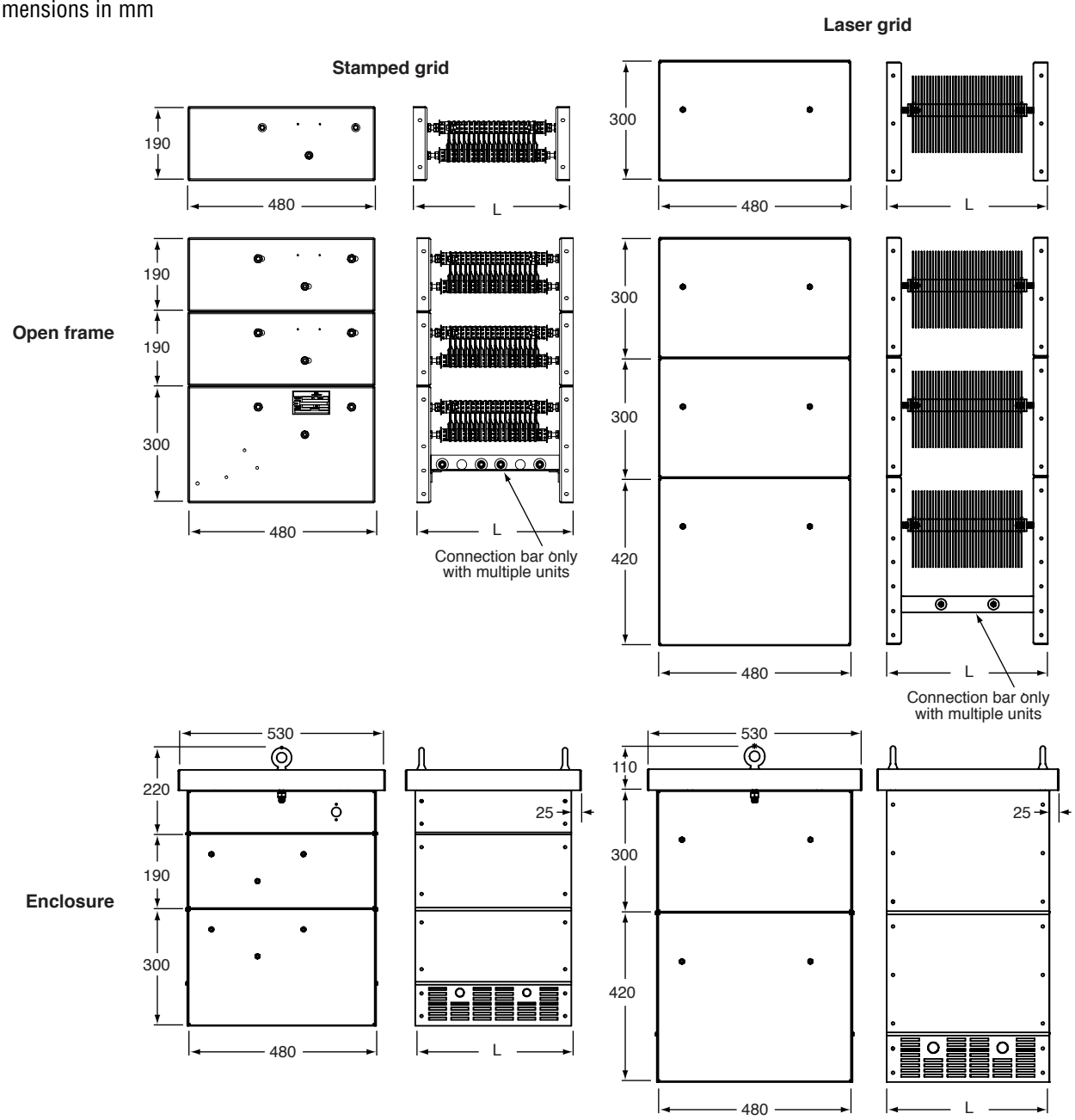
DIMENSIONS

Dimensions in mm



HOW TO ORDER

No. of units — **RoHS compliant**

S G M 1 A 3 1 R 0 N E

Grid series	Length	Resistance	Modification
SGE = nema 3 enclosure	(mm)	R500 = 0.500Ω	N = none
SGM = open grid	A = 390	1R00 = 1Ω	*Consult factory*
	B = 400	250R = 250Ω	*for options*
	C = 590		
	D = 600		
	E = 800		