

LARGE POWER METAL-CLAD WIRE WOUND RESISTORS

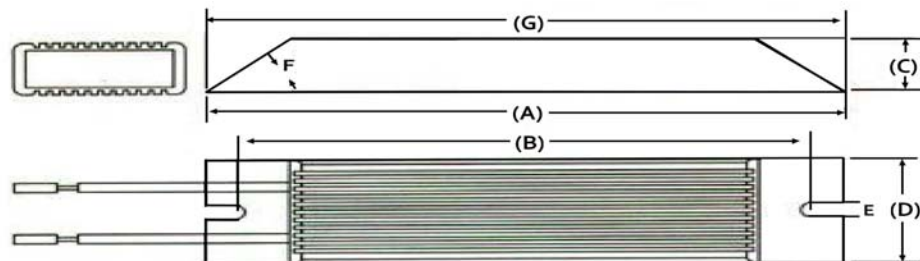
SMRH SERIES

SMRH series

◆ Power Type

◆ Higher Power

* A Type



* B Type



GENERAL SPECIFICATION

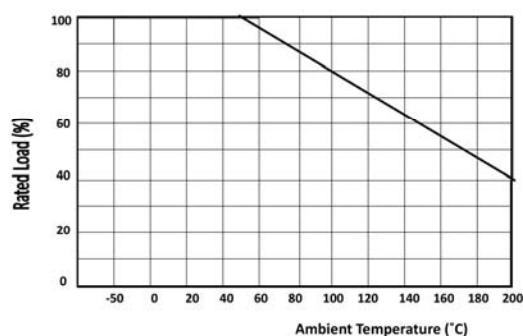
Power Rating (W)	Dimensions (mm)							Type	Resistance Range
	A ± 2	B ± 2	C ± 1	D ± 1	E ± 1	F ± 1	G ± 2		
SMRH-60W	115	100	20	40	5.2	45°	75	A	0.1~10K
SMRH-80W	140	125	20	40	5.2	45°	100	A	0.1~10K
SMRH-100W	165	150	20	40	5.2	45°	125	A	0.1~10K
SMRH-120W	190	175	20	40	5.2	45°	150	A	0.15~15K
SMRH-150W	215	200	20	40	5.2	45°	175	A	0.15~15K
SMRH-200W	165	150	30	60	5.2	60°	125	A	0.3~20K
SMRH-300W	215	200	30	60	5.2	60°	175	A	0.5~30K
SMRH-400W	265	250	30	60	5.2	60°	225	A	0.5~30K
SMRH-500W	335	320	30	60	5.2	60°	300	A	0.5~30K
SMRH-600W	335	320	30	60	5.2	60°	300	A	1~50K
SMRH-800W	400	385	40	80	5.2	60°	355	A, B	1~50K
SMRH-1000W	400	385	50	100	5.2	60°	345	A, B	1~50K

Electrical specification

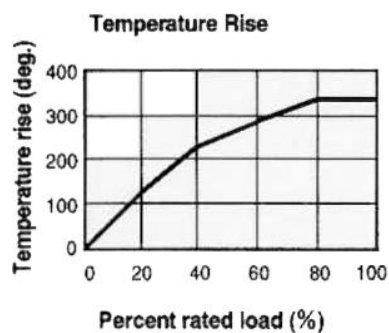
Characteristics	Limits
Resistance tolerance	Resistance $1\Omega > R$ Resistance tolerance $\pm 10\%$ (K)
Temperature coefficient	$\pm 400\text{ppm}/^\circ\text{C}$ max.
Power Rating Load	$\Delta R/R \leq \pm 1\%$ Surface temp. rise 375°C max.
Short-time overload	$\Delta R/R \leq \pm 2\%$ 300% rated power 5 seconds
Insulation resistance	DC500V 100M Ω min
Dielectric withstanding voltage	AC3000V 60 Sec.



Power Derating Curve



Temperature Rise



Short-time Overload Rating

(Second) Load Time	5	10	30	60	180	300	600	900	1800
(%) Max. Load Amps Rated	400	350	250	200	140	120	110	105	100

NEMA standard/ON-OFF Cycling

Cycling time (Second)	5 sec ON 75sec OFF	10 sec ON 70 sec OFF	15sec ON 75sec OFF	15sec ON 45sec OFF	15sec ON 30sec OFF	15sec ON 15sec OFF
Max. Amps Rated Load (%)	290	215	185	160	150	125

Parts Number System

SMRHA	— 120W	100	J
Type	Wattages	Resistance	Tolerance
SMRH - A, B Type Large Power Metal-Clad Wire Wound Resistors		3 digit code for 5% 4 digit code for 1%	J = $\pm 5\%$ F = $\pm 1\%$

