

SBC - METAL CLAD BRAKING RESISTORS - STANDARD POWER

The SBC series are range of dynamic braking resistors with an aluminium encasing. These resistors are low priced and small in size. This series resistors offer excellent load life stability. Power dissipation of up to 1000 W is available in this, SBC, series. *Features:*

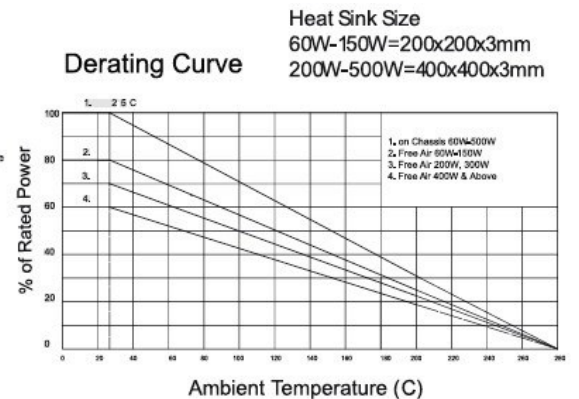
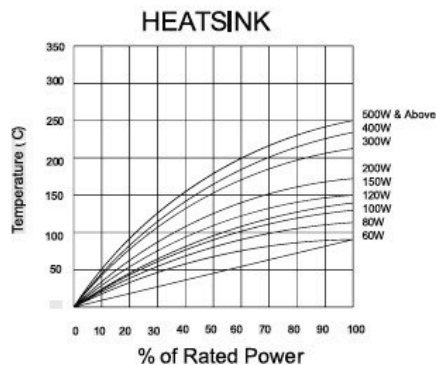
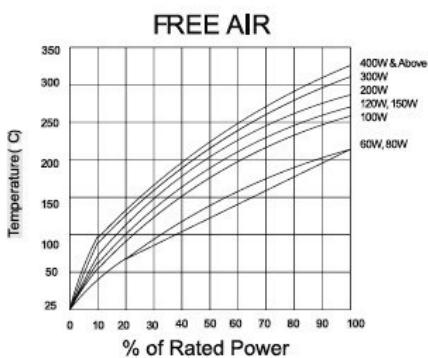
- *Excellent Electrical stability, reliability and mechanically very rigid.*



PERFORMANCE CHARACTERISTICS

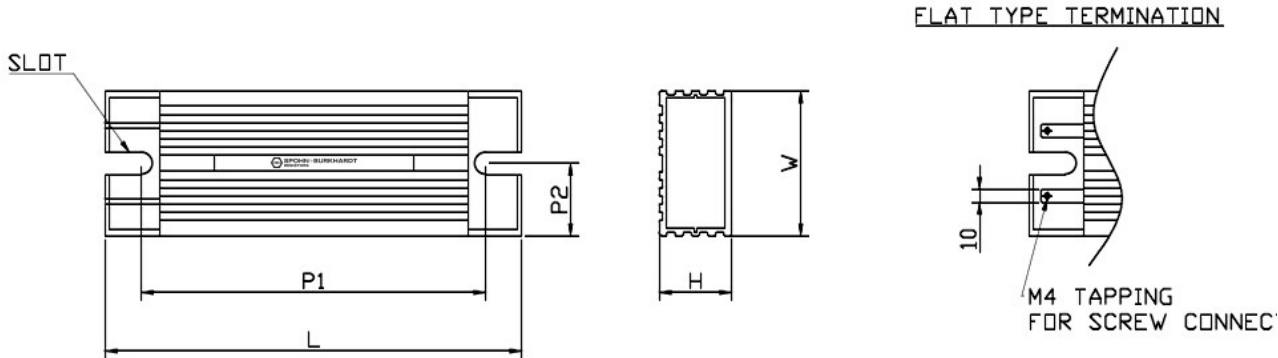
Characteristics	Condition	Compliance
Tolerance	Values according to price list	±10%
Temperature Co-efficient		±200 PPM/°C max
Insulation Resistance	Dry/Normal	20 MΩ min.
Endurance	1.5Hrs ON, 0.5Hrs OFF for 500Hrs @Room Temperature	$\Delta R < \pm(5\% + 0.05\Omega)$
Short Term Overload	≤60W - 5 x Rated Power for 5sec >60W - 10 x Rated Power for 5 sec	$\Delta R < \pm(2\% + 0.05\Omega)$
Operating Temperature	-25°C to 250°C	
Humidity	40°C, 90% Rh, 240Hrs	$\Delta R < \pm(3\% + 0.05\Omega)$
Dielectric Strength	1500VAC rms for 1minute	No Breakdown or Flashover

SURFACE TEMPERATURE INCREASE v/s POWER LOAD AND POWER DERATING CURVE



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RESISTANCE RANGE AND DIMENSIONAL DETAILS



Note: All dimension are in mm.

Series	Max. Continuous Power (W) (on Heat sink) *	Max. Continuous Power (W) (Without Heat sink)	Required Heat Sink Area for max. Power in cm ²	Max. Surface Temperature on Heat sink	Resistance Range**	L	W	H	C	P1	P2
SBC60	60	55	825	230	0.2Ω - 20Ω	115	40	20	290	100	20
SBC80	80	65	1300	230	0.5Ω - 1KΩ	140	40	20	290	125	20
SBC100	100	75	1550	230	1Ω - 1KΩ	165	40	20	290	150	20
SBC120	120	100	2150	250	6Ω - 1KΩ	190	40	20	290	175	20
SBC150	150	100	3250	250	6Ω - 1KΩ	215	40	20	290	200	20
SBC200	200	110	4150	270	0.5Ω - 1KΩ	165	60	30	290	150	30
SBC300	300	155	7350	270	0.5Ω - 1.5KΩ	215	60	30	290	200	30
SBC400	400	200	8700	270	1.5Ω - 2KΩ	265	60	30	290	250	30
SBC500	500	270	13150	270	1.5Ω - 2KΩ	335	60	30	290	320	30
SBC600	600	300	13150	270	1.5Ω - 2KΩ	335	60	30	290	320	30
SBC800	800	330	20800	270	2Ω - 2KΩ	400	60	30	290	385	30
SBC1000	1000	450	46200	270	2Ω - 2KΩ	400	60	30	290	385	30

** Values according to E12 series

ORDERING DETAILS

Typecode
 SBC series - Series Model #
 R - Resistance Value (e.g.: 1R=1Ω; 10R2=10.2Ω; 1K=1kΩ; 1k2=1.2kΩ)
 K - Tolerance Code ± 10% - K
 F - Termination Type (F - Flat Terminations)

Example: SBC60 10R K F

* A suitable cooling system is required to use the full power.

Disclaimer: Product specifications, data and dimensions are subject to change without any prior notice to improve performance, reliability and design.