

ISA-PLAN® // HIGH LOAD AND BRAKING RESISTORS

BRK // SIZE 5242 (METRIC)



Applications

- _ Braking resistor
- _ Charging resistor
- _ Current limiting resistor

Features

- _ 100 W power rating
- _ 1 kW pulse power for 1 s
- Overall thickness compatible to Econopack
- _ Thick Cu-substrate as heatsink for pulse power
- _ Flying leads and pin connectors available
 - L flying leads with silicone insulation
 - M copper wire with teflon insulation (UL-listed)
 - K pin connector
- _ Protection type IP 54
- _ RoHS 2011/65/EU compliant

Technical data

Resistance values *	Ohm	10 to 400	
Tolerance	%	10	
Applicable temperature range	°C	-50 to +150	
Power rating	W	100 (heatsink mounted)	
Max. pulse power	1 kW at t_p = 1 s (t_{off} > 10 s and T_G = 80 °C)		
Internal heat resistance (R _{thi})	K/W	< 0.15	
Operating voltage	VAC / VDC	750 / 1000	
Dielectric withstanding voltage	VAC	2500	
Stability (Nominal load) deviation after 1000h, Cu-substrate		<1.0 % (Cu-substrate = 135 °C)	

^{*} See all standard values and versions on page 2

Power derating curve for heatsink mounted BRK





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Available standard resistance values and tolerances*

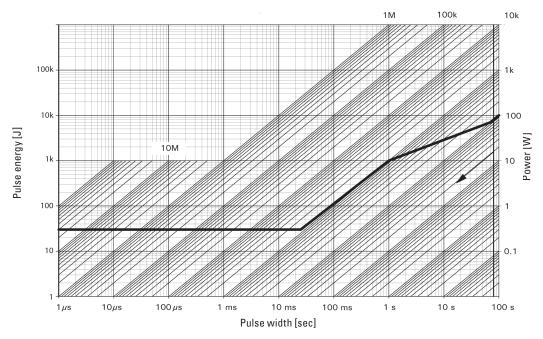
Resistance values	Version		
	K	L	M
10R0		✓	
22R0		✓	
47R0		✓	
68R0		✓	
100R	✓	✓	✓
200R		✓	✓
400R			✓

^{*} Further values on request

Ordering code



Maximum pulse energy respectively pulse power for permanent operation



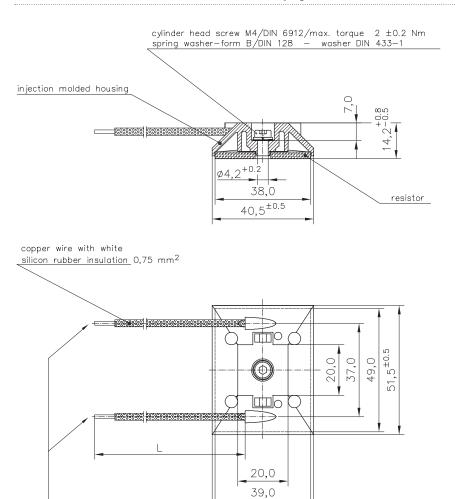
Maximum pulse energy / power versus pulse length.

^{✓ =} available



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Mechanical dimensions [mm], version (L/M) with flying leads



Copper wire:

Version L: copper wire with silicone rubber insulation 0.75 mm² L=275 ±10 mm

termination bushing type: C / DIN 46228 T3

Version M: copper wire with teflon insulation FEP-TE, AWG 18 (1.00 mm²) L=325 ±10 mm, Style 10203 150 °C / 1,000 V

40,5^{±0.5}

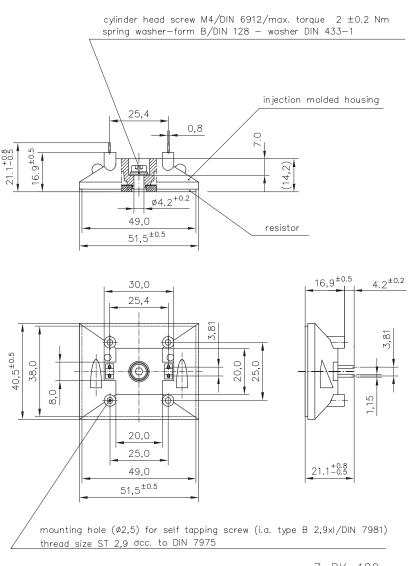
Z-DK-181a

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Mechanical dimensions [mm], version (K) with pin connectors



Z-DK-182a

Type with pin connectors, overall thickness compatible to Econopack $\,$

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