

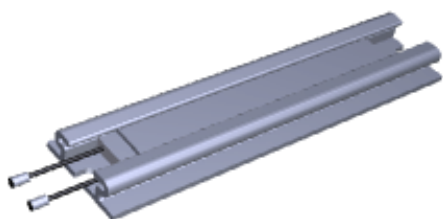
# BRAKING RESISTOR PTC – 105 WATT PTC800666 – 120 R



Self protecting PTC resistor element (in an aluminium casing)  
with a very high threshold limit voltage; protection according to IP20.

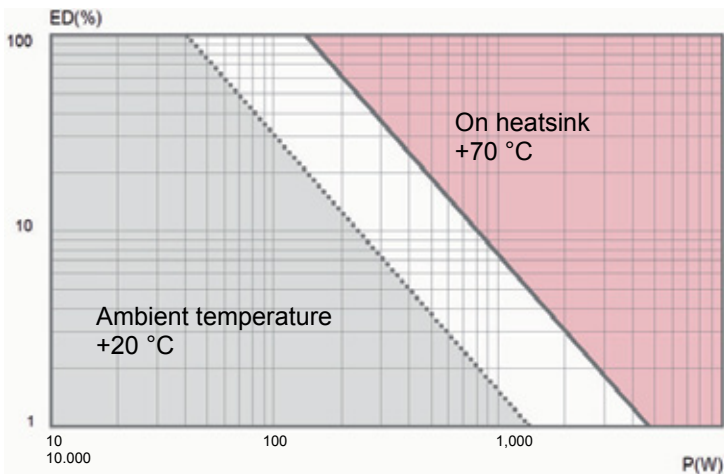
## TECHNICAL DATA

Parameters	Symbol	Value	Unit	Comment
Length	L	139.0 ± 0.4 (5.47 ± 0.02)	mm (in)	
Width	W	34.0 ± 0.3 (1.34 ± 0.01)	mm (in)	
Height	H	10.7 ± 0.5 (0.42 ± 0.02)	mm (in)	
Lead length		450	mm	
Operating voltage	$U_B$	600 AC 850 DC	V	
Threshold limit voltage	$U_{BD}$	1,100 DC	V	<b>Caution:</b> Abruptly low resistance
Insulation voltage	$U_{ISO}$	3,750	V	AC; f = 50 Hz; t = 1 min
Surface temperature at constant load with $U_N$	$T_o$	+175 ± 10 K (+347 ± 10 K)	°C (°F)	The temperature will stay within the tolerance at a constant load of 500 VAC
Transistor temperature	CP	+140 (+284)	°C (°F)	Depending from the material, describes the temperature at which the resistance reaches two times the rate of its lowest value
Cold resistance at +25 °C (+77 °F)	$R_{25}$	120	Ω	<b>Caution:</b> Dynamic value, depending on the temperature of the PTC! (cf. the characteristic curve of R(T)) and the applied voltage!
Tolerance of resistance	$\Delta R_{25}$	± 35	%	<b>Caution:</b> Typical for thermistors and not reducible.
Representative continuous rating	$P_D$	30 105	W	free convection on heatsink (+70 °C (+158 °C))
Energy consumption	E	1,320	J (Ws)	with 1.2 s (1% ED)
Representative pulse rating at a time of 1 ms	$P_i$	>20	kW	Value in approximation
Approval				c CSA us (Standard CSA-C22.2 and UL 508)

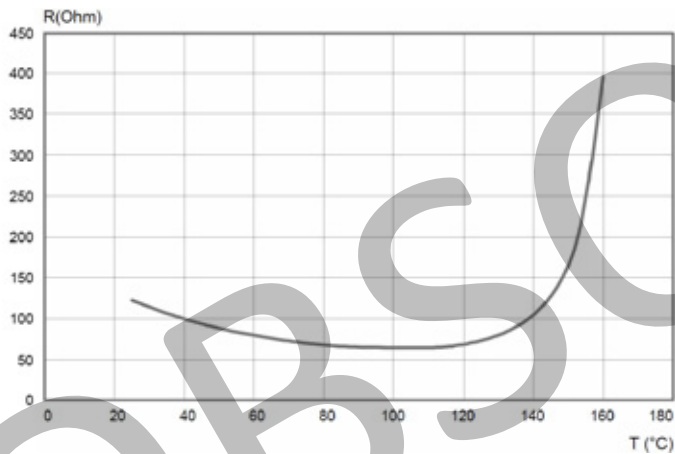


# SPECIFICATIONS

## Pulse carrying capacity / PTC-Braking resistor 105 W / 120 R (Cycle time 120 s)

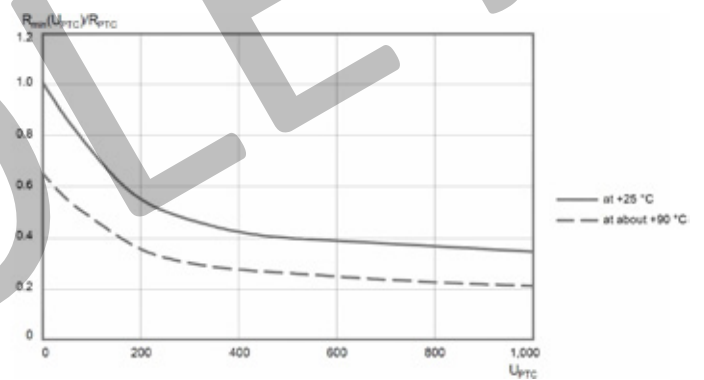


## Temperature-Resistance-Characteristic\* PTC-Braking resistor 105 W / 120 R



\*the resistor tolerance has been discounted

## Resistance-Voltage-Characteristic\* PTC-Braking resistor 105 W / 120 R Resistance as a function of received voltage (factor)



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This technical data is based on current available information and is subject to change at any time. Specifications for specific systems or applications may vary.

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