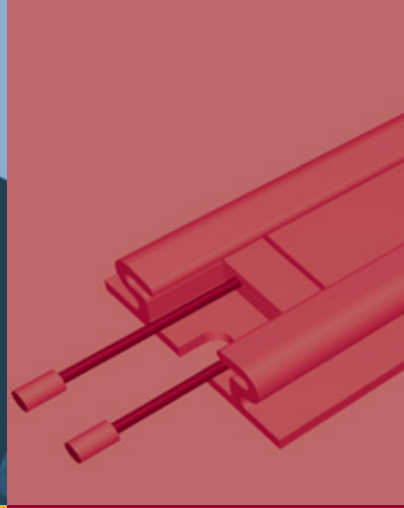


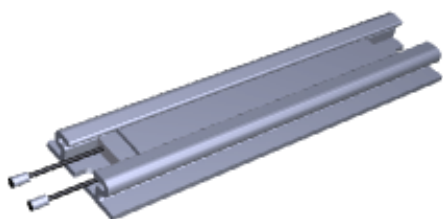
# BRAKING RESISTOR PTC – 105 WATT PTC800666 – 120 R



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

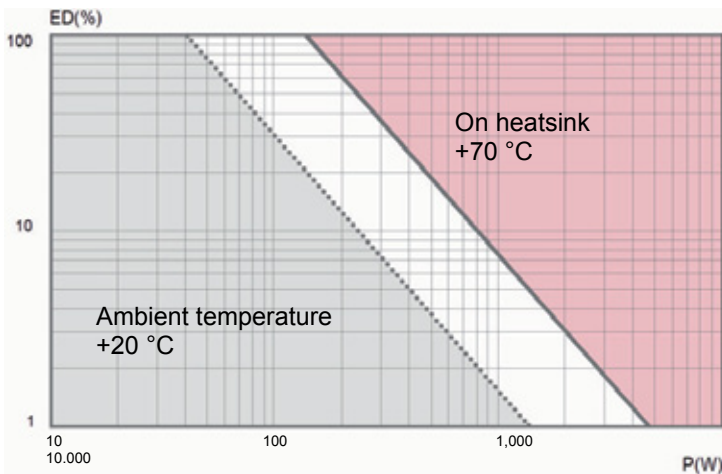
## TECHNICAL DATA

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 <sub>B</sub>	600 AC 850 DC	V	
Threshold limit voltage	U <sub>BD</sub>	1,100 DC	V	<b>Caution:</b> Abruptly low resistance
Insulation voltage	U <sub>ISO</sub>	3,750	V	AC; f = 50 Hz; t = 1 min
Surface temperature at constant load with U <sub>N</sub>	To	+175 ± 10 K (+347 ± 10 K)	°C (°F)	The temperature will stay within the tolerance at a constant load of 500 VAC
Transiston 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 <sub>25</sub>	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	ΔR <sub>25</sub>	± 35	%	<b>Caution:</b> Typical for thermistors and not reducable.
Representative continuous rating	P <sub>D</sub>	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 <sub>i</sub>	>20	kW	Value in approximation
Approval				c CSA us (Standard CSA-C22.2 and UL 508)

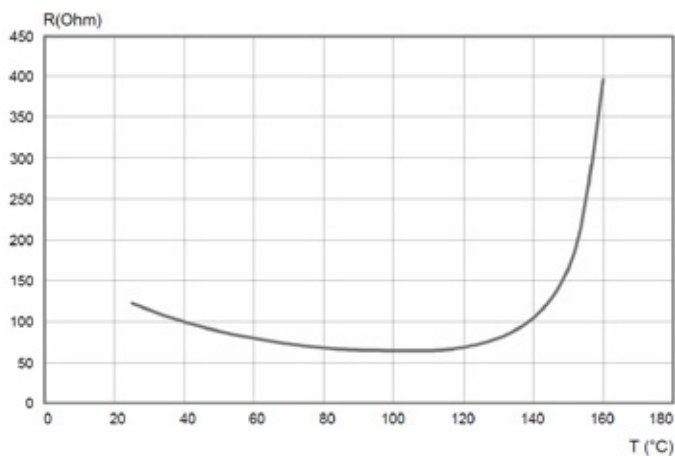


# SPECIFICATIONS

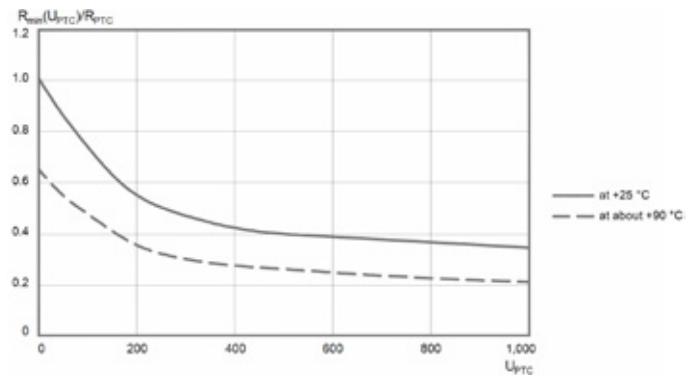
## Pulse carrying capacity / PTC-Braking resistor 105 W / 120 R (Cycle time 120 s)



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



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



\*the resistor tolerance has been discounted

Moog has offices around the world. For more information or the office nearest you, contact us online.

[info@moog.com](mailto:info@moog.com)

[www.moog.com/industrial](http://www.moog.com/industrial)

Moog is a registered trademark of Moog Inc. and its subsidiaries. All trademarks as indicated herein are the property of Moog Inc. and its subsidiaries.  
©2013 Moog Inc. All rights reserved. All changes are reserved.

PTC800666\_105W\_120R  
Star/Rev. A, June 2013, CB69044-001

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.

**MOOG**