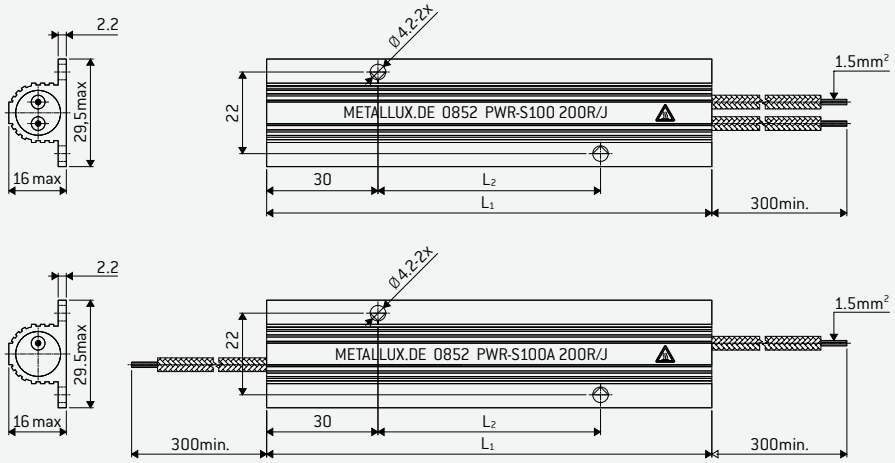
PWR-S WIRE POWER RESISTOR IN ALUMINIUM CASING

Wire resistors in aluminium profile combine the high pulse load capacity of conventional resistor materials with optimised thermal conduction and a high degree of protection. Assembly on a surface with good thermal conduction properties improves the heat dissipation additionally and leads to an increased load capacity. The series PWR-S satisfies the requirements of UL508 and is particularly suitable for applications as brake resistor, charging and discharging resistor, or also as heating resistor.



TYPE SELECTION AND DIMENSIONS

Type	Without cooling		With cooling	Resistance values	Max. voltage	L_1	L_2	L_3	/g/
	$P_{NDC=30\%}$ /W/	$P_{NDC=100\%}$ /W/	P_N at 25°C			mm	mm		
PWR-S 30	20	10	30 W	0R8 – 51R	300 V≅	(40)	(30)	(5)	25
PWR-S 45	30	15	45 W	0R9 – 56R	400 V≅	55	25	15	35
PWR-S 60	40	20	60 W	1R5 – 110R	600 V≅	77	47	15	52
PWR-S 90	60	30	90 W	2R2 – 160R	700 V≅	104	64	20	73

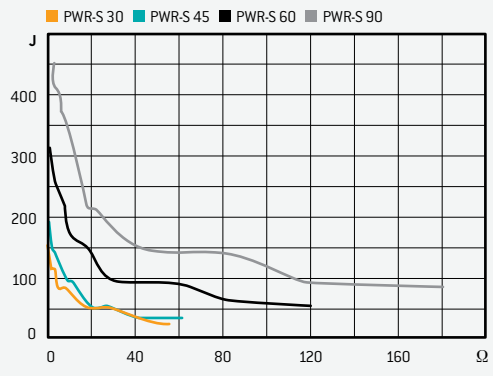
SAMPLE ORDER

PWR-S30 35 R/J 150 mm connection lines

Inductance	< 0.2 mH at 1 KHz
Time constant	6.6 to 7.1 min.
Degree of protection	IP 55 (opt. IP 65)
Storage temperature	10°C to +50°C

The duty cycle DC in percent is based on a cycle time of 120 sec.

PULSE ENERGY

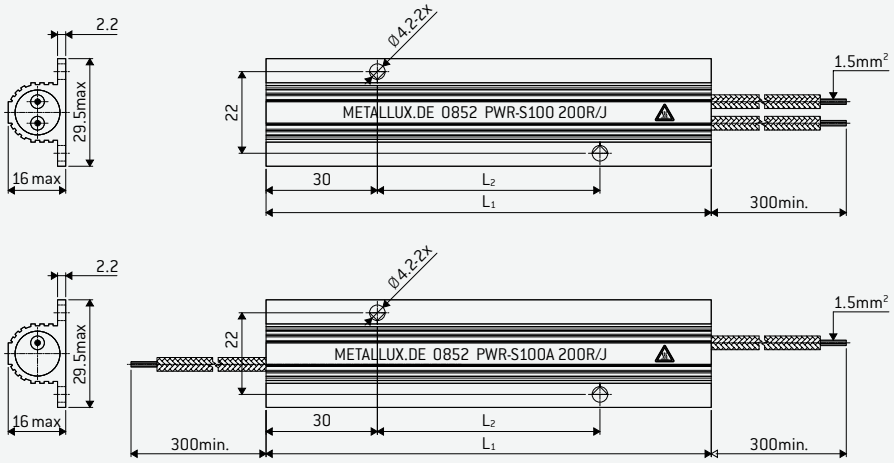


PARAMETER

Max. surface temperature	250°C
Tolerance	±5%
Temperature coefficient TC	≤ ±150 ppm/K
Stability at $P_{nominal}$ @ 25°C, 1000 h	±5%
Max. overload capacity	10 x P_{NDC}=100%, 5 sec
Insulation resistance at 500 VDC	≥ 10 GΩ
Test voltage	4000 V≅
Connection lines	UL SIFGL wire line AWG16 style 3071, 200°C, 600V UL PTFE wire line AWG16 style 1199, 200°, 600V UL FEP wire line AWG16 style 10203, 200°C, 600V

PWR-S WIRE POWER RESISTOR IN ALUMINIUM CASING (2)

Wire resistors in aluminium profile combine the high pulse load capacity of conventional resistor materials with optimised thermal conduction and a high degree of protection. Assembly on a surface with good thermal conduction properties improves the heat dissipation additionally and leads to an increased load capacity. The series PWR-S satisfies the requirements of UL508 and is particularly suitable for applications as brake resistor, charging and discharging resistor, or also as heating resistor.



TYPE SELECTION AND DIMENSIONS

Type	Without cooling		With cooling	Resistance values	Max. voltage	L_1	L_2	/g/
	$P_{NDC=30\%}$ /W/	$P_{NDC=100\%}$ /W/	P_N at 25°C			mm	mm	
PWR-S100	70	30	100 W	2R4 – 180R	700 V≅	120	60	86
PWR-S100A	70	30	100 W	2R0 – 130R	700 V≅	120	60	86
PWR-S125	85	40	125 W	3R9 – 300R	800 V≅	165	105	115
PWR-S125A	85	40	125 W	3R0 – 220R	800 V≅	165	105	115
PWR-S150	100	45	150 W	4R3 – 300R	1000 V≅	180	120	120
PWR-S150A	100	45	150 W	3R3 – 240R	1000 V≅	180	120	120

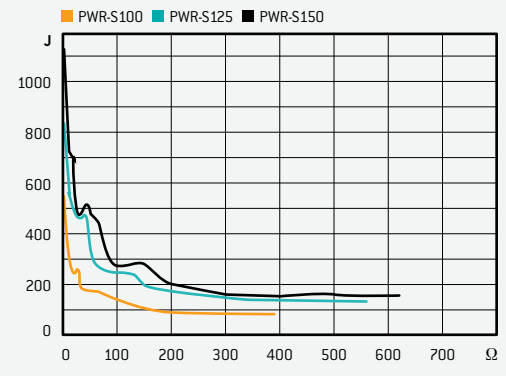
SAMPLE ORDER

PWR-S125 50 R/J 300 mm connection lines

Inductance	< 0.2 mH at 1 KHz
Time constant	6.6 to 7.1 min.
Degree of protection	IP55 (opt. IP65)
Storage temperature	−10°C at +50°C

The duty cycle DC in percent is based on a cycle time of 120 sec.

PULSE ENERGY



PARAMETER

Max. surface temperature	250°C
Tolerance	±5% (J); ±10% (K)
Temperature coefficient TC	≤ ±150 ppm/K
Stability at $P_{nominal}$ @ 25°C, 1000 h	±5%
Max. overload capacity	10 x P_{NDC}=100%, 5 sec
Insulation resistance at 500 VDC	≥ 10 GΩ
Test voltage	4000 V≅
Connection lines	UL SIFGL wire line AWG16 style 3071, 200°C, 600V UL PTFE wire line AWG16 style 1199, 200°, 600V UL FEP wire line AWG16 style 10203, 200°C, 600V