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Vishay Milwaukee

Stud Mount Edgewound Power Resistor (EDGS), **Wirewound Resistors, Industrial Power**



FEATURES

· Resistance-alloy ribbon wire is coiled on edge and supported on specially designed porcelain



 Open coil construction allows efficient heat dissipation and easily accommodates reasonable overloads and surges

- RoHS COMPLIANT
- Insulators provide proper turn-to-turn spacing and insulation from threaded stud mount
- Terminals are welded to the resistive wire for a reliable electrical connection
- Wirewound
- · Material categorization: for definitions of compliance please see www.vishav.com/doc?99912

STANDARD ELECTRICAL SPECIFICATIONS				
GLOBAL MODEL	POWER RATING W	RESISTANCE RANGE Ω	TOLERANCE ± %	
EDGS0400	400	0.053 to 1.23	10	
EDGS0600	600	0.084 to 1.93	10	
EDGS0800	800	0.115 to 2.64	10	
EDGS1000	1000	0.146 to 3.35	10	
EDGS1200	1200	0.176 to 4.04	10	
EDGS1400	1400	0.200 to 4.73	10	
EDGS1600	1600	0.237 to 5.44	10	

CURRENT A	RESISTANCE Ω						
	400 W	600 W	800 W	1000 W	1200 W	1400 W	1600 W
85	0.0530	0.0840	0.1150	0.1460	0.1760	0.2000	0.2370
80	0.0600	0.0940	0.1290	0.1630	0.1970	0.2240	0.2650
75	0.0680	0.1060	0.1450	0.1830	0.2210	0.2510	0.2980
70	0.0760	0.1190	0.1620	0.2060	0.2490	0.2820	0.3350
67	0.0850	0.1340	0.1830	0.2320	0.2800	0.3180	0.3770
63	0.0970	0.1510	0.2050	0.2620	0.3150	0.3690	0.4220
60	0.1070	0.1680	0.2300	0.2920	0.3520	0.4130	0.4740
56	0.1220	0.1920	0.2610	0.3320	0.4000	0.4700	0.5400
53	0.1360	0.2150	0.2950	0.3740	0.4580	0.5300	0.6080
50	0.1520	0.2400	0.3280	0.4150	0.5040	0.5900	0.6780
47	0.1720	0.2700	0.3690	0.4660	0.5720	0.6630	0.7600
45	0.1910	0.3000	0.4100	0.5200	0.6270	0.7350	0.8450
41.5	0.2300	0.3480	0.4650	0.5900	0.7000	0.8300	0.9400
40	0.2420	0.3800	0.5200	0.6600	0.7960	0.9300	1.070
37.4	0.2740	0.4300	0.5850	0.7400	0.8970	1.050	1.210
35	0.3120	0.4900	0.6750	0.8500	1.050	1.200	1.380
33	0.3520	0.5500	0.7500	0.9500	1.150	1.340	1.540
31	0.3950	0.6200	0.8450	1.070	1.290	1.520	1.750
29.6	0.4320	0.6850	0.9450	1.200	1.450	1.700	1.950
27.6	0.5000	0.7850	1.070	1.360	1.640	1.920	2.200
26	0.5600	0.8750	1.190	1.510	1.830	2.140	2.450
24.7	0.6280	0.9800	1.340	1.690	2.050	2.400	2.750
23.9	0.6660	1.050	1.420	1.810	2.200	2.570	2.970
22.5	0.7500	1.180	1.610	2.030	2.460	2.900	3.320
22	0.7900	1.240	1.690	2.130	2.580	3.040	3.480
20.7	0.8860	1.390	1.900	2.400	2.910	3.400	3.910
19.6	0.9900	1.560	2.130	2.700	3.260	3.830	4.400
18.5	1.110	1.740	2.370	3.000	3.620	4.250	4.900
17.2	1.230	1.930	2.640	3.350	4.040	4.730	5.440

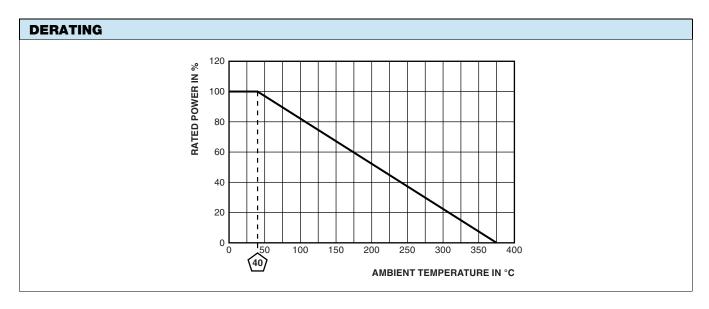
Revision: 02-May-2022 Document Number: 31863





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TECHNICAL SPECIFICATIONS			
PARAMETER	UNIT	RESISTOR CHARACTERISTICS	
Power rating	W	400 to 1600	
Resistance range	Ω	0.053 to 5.44	
Resistance tolerance	%	10	
TCR	ppm/°C	± 400, ± 180, ± 130, ± 20 (varies by wattage and resistance)	
Operating temperature	°C	-55 to +350	
Temperature rise	°C	375 above an ambient of 40 °C	
Maximum altitude	f.a.s.l. (m.a.s.l.)	derate above 4921 f.a.s.l. (1500 m.a.s.l.)	
Short-term overload (surge)		10 x rated power for 5 s	
Surge windings		n/a	
Maximum working voltage		$(P \times R)^{1/2}$	
Insulation resistance	Ω	1M	
Dielectric voltage	V _{RMS}	2500 for 6 s	
Creepage	inch (mm)	0.50 (12.7) typical	
Terminal sleeves		n/a	
Inductance	μH	n/a	
Non-inductive winding		n/a	
Terminal strength	lb	n/a	
Electrical or mechanical customization		available: www.vishay.com/doc?31858	



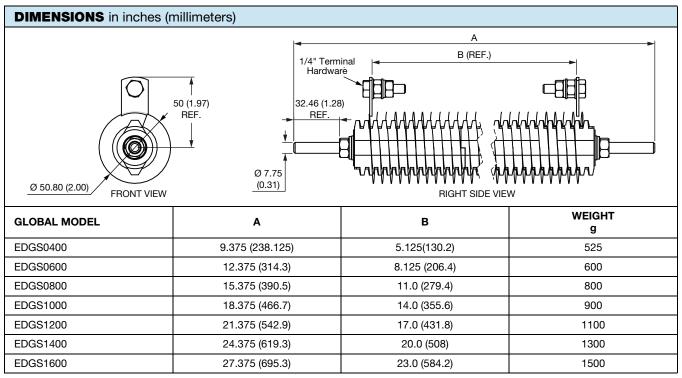
MATERIAL SPECIFICATIONS				
Element	Stainless steel, copper-nickel, nickel-chrome			
Core	Electrical porcelain			
Coating	None			
Standard terminals	Stainless steel			
Part marking	Part number, value, date code, MRC			
Terminal hardware	Cold rolled steel and zinc (hex free, trivalent clear) coating			





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Note

Type: EDG Stud MountPower: varies

• Tolerance: ± 10 %

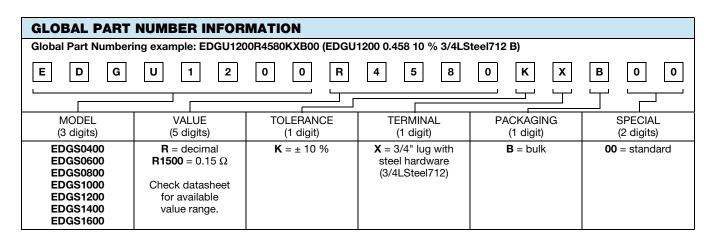
METRIC OPTIONS AVAILABLE

Metric Hardware on Terminal Lugs

Use terminal designation "1" example: EDGS10001R000K1B00

Note

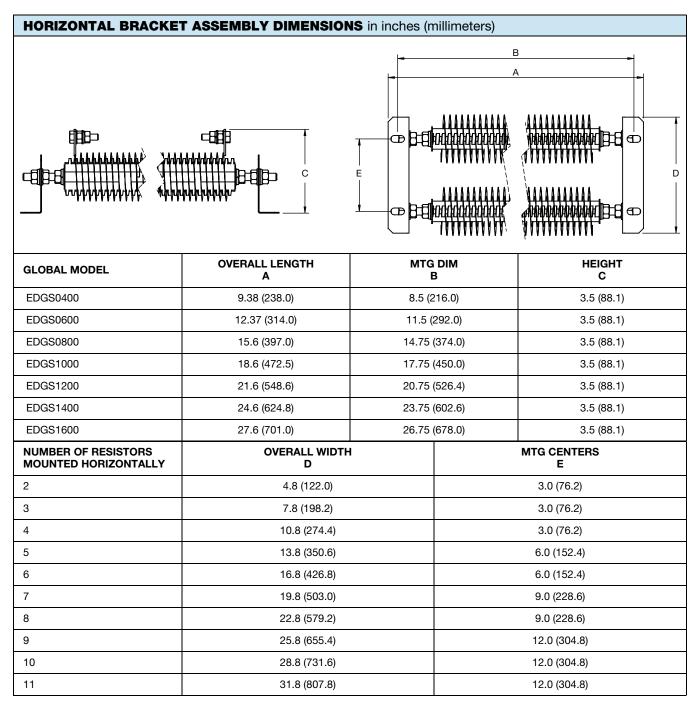
• If "1" is selected for the terminal option, the resistor thru bolt will also be metric.







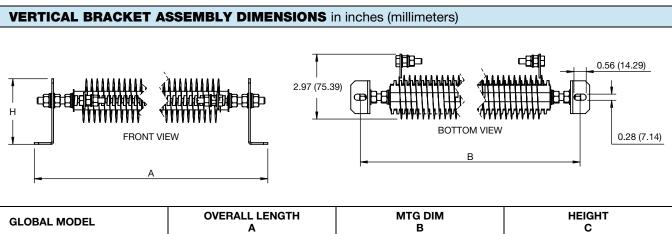
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GLOBAL MODEL	OVERALL LENGTH A	MTG DIM B	HEIGHT C	
EDGS0400 - 1 High	9.38 (238.0)	8.5 (216.0)	3.0 (76.2)	
EDGS0400 - 2 High	9.38 (238.0)	8.5 (216.0)	6.0 (152.4)	
EDGS0400 - 3 High	9.38 (238.0)	8.5 (216.0)	9.0 (228.6)	
EDGS0600 - 1 High	12.37 (314.0)	11.5 (292.0)	3.0 (76.2)	
EDGS0600 - 2 High	12.37 (314.0)	11.5 (292.0)	6.0 (152.4)	
EDGS0600 - 3 High	12.37 (314.0)	11.5 (292.0)	9.0 (228.6)	
EDGS0800 - 1 High	15.6 (397.0)	14.75 (374.0)	3.0 (76.2)	
EDGS0800 - 2 High	15.6 (397.0)	14.75 (374.0)	6.0 (152.4)	
EDGS0800 - 3 High	15.6 (397.0)	14.75 (374.0)	9.0 (228.6)	
EDGS1000 - 1 High	18.6 (472.5)	17.75 (450.0)	3.0 (76.2)	
EDGS1000 - 2 High	18.6 (472.5)	17.75 (450.0)	6.0 (152.4)	
EDGS1000 - 3 High	18.6 (472.5)	17.75 (450.0)	9.0 (228.6)	
EDGS1200 - 1 High	21.6 (548.6)	20.75 (526.4)	3.0 (76.2)	
EDGS1200 - 2 High	21.6 (548.6)	20.75 (526.4)	6.0 (152.4)	
EDGS1200 - 3 High	21.6 (548.6)	20.75 (526.4)	9.0 (228.6)	
EDGS1400 - 1 High	24.6 (624.8)	23.75 (602.6)	3.0 (76.2)	
EDGS1400 - 2 High	24.6 (624.8)	23.75 (602.6)	6.0 (152.4)	
EDGS1400 - 3 High	24.6 (624.8)	23.75 (602.6)	9.0 (228.6)	
EDGS1600 - 1 High	27.6 (701.0)	26.75 (678.0)	3.0 (76.2)	
EDGS1600 - 2 High	27.6 (701.0)	26.75 (678.0)	6.0 (152.4)	
EDGS1600 - 3 High	27.6 (701.0)	26.75 (678.0)	9.0 (228.6)	



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