Vishay Milwaukee





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FEATURES

- Universal Mount EDGU series are a direct replacement for competitors' products
- Resistance-alloy ribbon wire is coiled on edge and supported on specially designed porcelain insulators



EDGU

- **RoHS**
- Open coil construction allows efficient heat dissipation and easily accomodates reasonable overloads and surges
- Insulators provide proper turn-to-turn spacing and insulation from support bars
- Terminals are welded to the resistive wire for a reliable electrical connection
- Wirewound
- Material categorization: For definitions of compliance please see <u>www.vishay.com/doc?99912</u>

STANDARD ELECTRICAL SPECIFICATIONS				
GLOBAL MODEL	POWER RATING W		TOLERANCE ± %	
EDGU0400	400	0.053 to 1.23	10	
EDGU0600	600	0.084 to 1.93	10	
EDGU0800	800	0.115 to 2.64	10	
EDGU1000	1000	0.146 to 3.35	10	
EDGU1200	1200	0.176 to 4.04	10	
EDGU1400	1400	0.200 to 4.73	10	
EDGU1600	1600	0.237 to 5.44	10	

PRODUCT RATINGS - AVAILABLE CURRENT, POWER, AND RESISTANCE VALUES

CURRENT							
Α	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

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1 For technical questions, contact: <u>vishavmilwaukeeresistor@vishav.com</u> Document Number: 31855

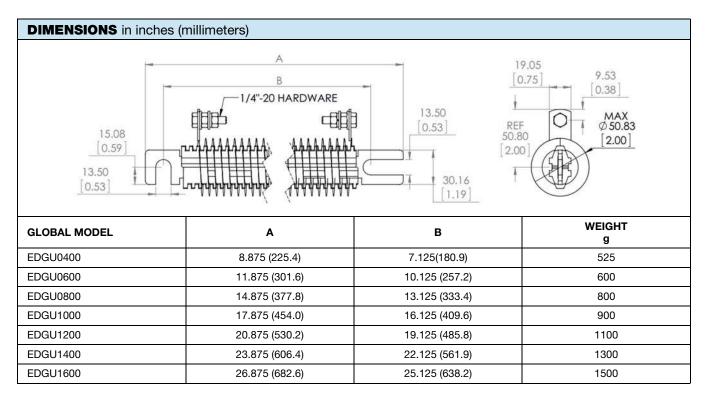
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EDGU

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		



GLOBAL PART	GLOBAL PART NUMBER INFORMATION					
Global Part Number	Global Part Numbering example: EDGU1200R4580KXB00 (EDGU1200 0.458 10 % 3/4LSteel712 B)					
E D G U 1 2 0 0 R 4 5 8 0 K X B 0 0						
MODEL (3 digits)	VALUE (5 digits)	TOLERANCE (1 digit)	TERMINAL (1 digit)	PACKAGING (1 digit)	SPECIAL (2 digits)	
EDGU0400 EDGU0600 EDGU0800 EDGU1000 EDGU1200 EDGU1400 EDGU1600	\mathbf{R} = Decimal $\mathbf{R1500}$ = 0.15 Ω Check datasheet for available value range	K = ± 10 %	X = 3/4" lug with steel hardware (3/4LSteel712)	B = Bulk	00 = Standard	

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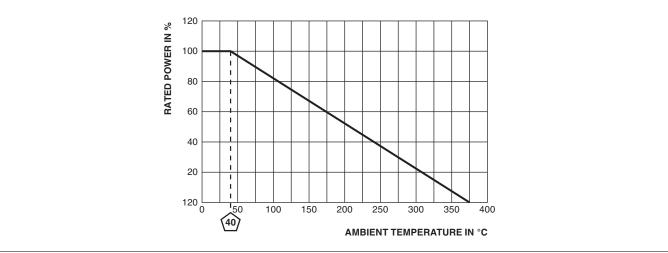
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TECHNICAL SPECIFICATIONS			
PARAMETER	UNIT	EDGU RESISTOR CHARACTERISTICS	
Temperature coefficient	ppm/°C	± 20 to ± 350	
Short time overload	-	10 x rated power for 5 s	
Dielectric withstanding voltage	V _{AC}	2500 for 60 s	
Maximum working voltage	V	(P x R) ^{1/2}	
Insulation resistance	Ω	1 MΩ	
Operating temperature range	°C	-55 to +350	
Maximum altitude	m.a.s.l.	1000 (higher available upon request)	

DERATING

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