

Crohms Series CE

Edgewound Resistor



Product Application

Crohms Series CE edgewound resistors are frequently used for medium to heavy duty braking of variable frequency drives, speed and torque regulation, crane and transit applications, elevator and mining controls, neutral grounding and any type of AC or DC load application. The Series CE edgewound resistors are available in multiple lengths (3" increments) and in current ranges between 15 and 100 amps.



Product Design

Crohms Series CE edgewound resistors are produced from a high quality stainless steel alloy formed into a compact configuration designed for heavy duty power applications. The resistor element strip material is wound on edge into a long spring then installed onto a toothed or smooth ceramic insulating core. Winding the element on edge allows the design to cool very efficiently when installed in a horizontal configuration. Each end of the resistor element is welded to a stainless steel terminal featuring a 1 1/32" diameter hole for attaching connections with 5/16" hardware. The insulating core is produced from steatite porcelain which offers good thermal shock resistance and excellent mechanical strength. A keyed 3/8" diameter hole runs through the center of the core to accept a 5/16" diameter threaded rod or flat mounting bar to offer multiple mounting and installation options.

Product Specifications

Voltage Insulation: 1000 volts

Insulation Resistance (Dry): 1000 M Ω minimum

Resistance Tolerance: +/- 10% standard, Contact factory for if lower tolerances are required.

Coefficient of Resistivity: As the element temperature rises the resistance value will increase. Expect an approximate resistance increase of 5% at full operating temperature.

Operating Temperature: 375°C temperature rise above ambient.

Ambient Temperature: The power ratings are based on a ambient temperature of 40°C. For higher ambient temperatures decrease power ratings approximately 10% for 50°C, 20% for 80°C and 30% for 100°C.

Product Ordering Information

The part number is specified as follows: CE (Size) - Amp Rating. As an example, the part number for a 0.40 ohm, 60 amp edgewound resistor is CE5-60. See the table on the following page for a full list of standard part numbers.

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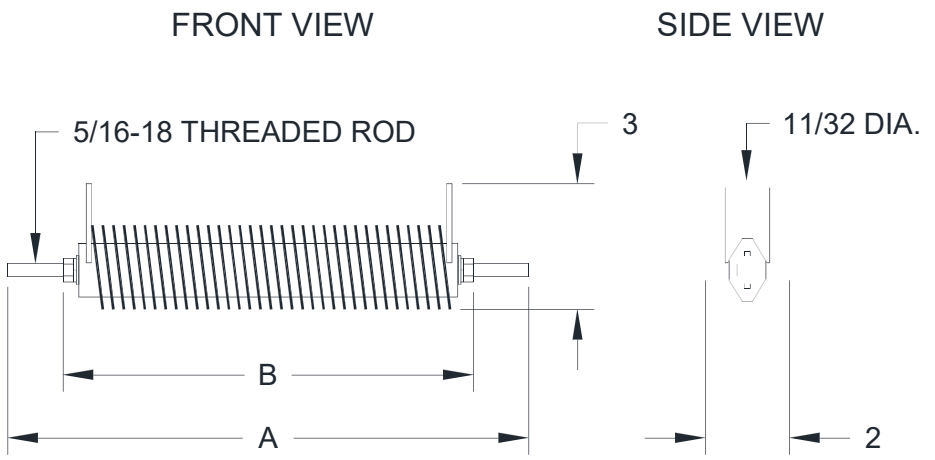
Edgewound Resistor



Product Ratings and Standard Dimensions

AMPS	SIZE 1	SIZE 2	SIZE 3	SIZE 4	SIZE 5	SIZE 6	SIZE 7	SIZE 8	SIZE 9
15	0.92	1.90	3.00	4.10	5.10	6.20	7.20	8.40	9.40
16	0.78	1.70	2.60	3.50	4.40	5.30	6.20	7.00	8.00
18	0.60	1.30	2.00	2.70	3.50	4.20	4.90	5.60	6.30
20	0.53	1.20	1.80	2.40	3.10	3.70	4.30	5.00	5.60
23	0.40	0.89	1.37	1.85	2.30	2.80	3.30	3.80	4.30
26	0.31	0.69	1.06	1.44	1.81	2.20	2.60	3.00	3.30
29	0.22	0.49	0.75	1.02	1.29	1.55	1.82	2.10	2.40
32	0.20	0.43	0.66	0.90	1.13	1.37	1.60	1.80	2.10
36	0.16	0.35	0.54	0.73	0.92	1.11	1.30	1.50	1.70
40	0.12	0.27	0.41	0.56	0.70	0.85	0.99	1.10	1.30
45	0.11	0.25	0.38	0.52	0.65	0.78	0.92	1.00	1.20
50	0.09	0.19	0.30	0.40	0.51	0.62	0.72	0.83	0.93
60	0.07	0.15	0.23	0.32	0.40	0.48	0.57	0.65	0.73
70	0.06	0.12	0.19	0.26	0.33	0.39	0.46	0.53	0.59
85	0.04	0.07	0.11	0.15	0.19	0.23	0.27	0.31	0.35
100	0.03	0.06	0.10	0.13	0.16	0.20	0.23	0.27	0.30

SIZE	A	B
1	6-3/8	4
2	9-3/8	7
3	12-3/8	10
4	15-3/8	13
5	18-3/8	16
6	21-3/8	19
7	24-3/8	22
8	27-3/8	25
9	30-3/8	28



All dimensions are in inches.