Motor Surge Capacitor

Protective Capacitors for AC Rotating Machines

General

These low inductance surge capacitors are designed to protect AC Rotating Machines from lightning and switching surges by substantially increasing surge rise times. This leads to a more uniform distribution of voltage in the windings of the machine, thus reducing the stresses imposed on the motor turn insulation.

Product Scope

- Low loss, low inductance design with internal discharge resistors.
- Suitable for indoor or outdoor usage.
- Available in maximum line voltages up to 26.4kV.
- Three-Phase and Single Phase Designs Available as shown in Table 700-01-2.
- Non-PCB Dielectric
- Altitude: 0—18,000 Feet
- Line and Ground Terminals are equipped with solderless connectors for #10 to #2 Stranded Conductors.

Figure: 700-01-1
Typical 3-Phase Motor Surge Capacitor Mounted Within Motor/Generator Terminal Box

Table 700-01-1
Standard Protective Capacitors for AC Rotating Machines

Nominal Voltage Rating L-L RMS (Volts)	Maximum Voltage Rating L-L RMS (Volts)	NEPSI Catalog Number	Poles Per Unit	Mirofarads Per Pole	Approximate Weight (LBS)
2400	2640	SC15UJ	3	0.5	30
4160	4576	SC15UJ	3	0.5	35
6900	7590	SCL19UH	1	0.5	30
7200	7960	SC65UH	3	0.5	35
13800	15180	SC9UH	1	0.25	33
13800	15180	SC12RH	3	0.25	66
24000	26400	SC10RH	1	0.125	57

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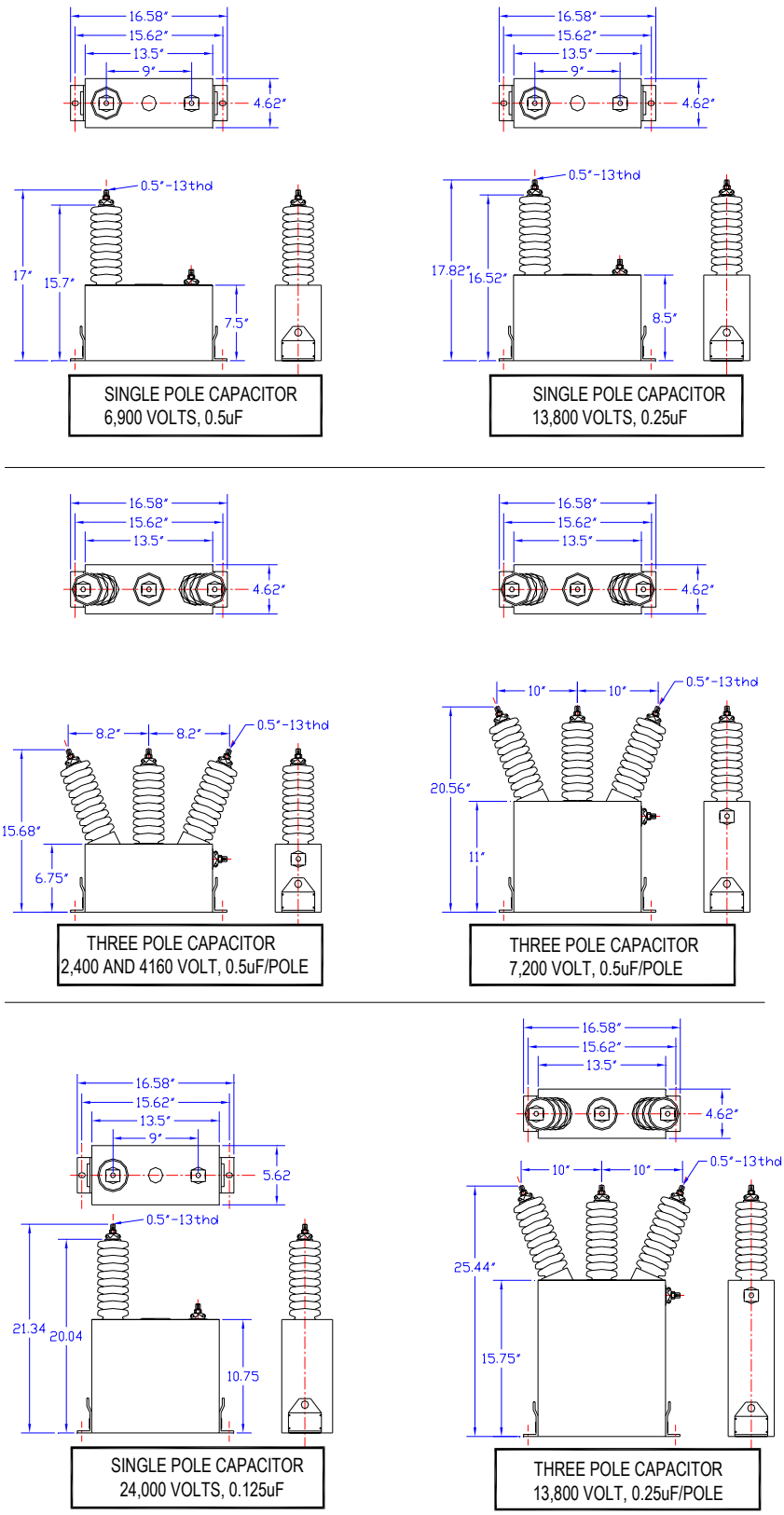

Figure: 700-01-2
Outline Drawings for motor surge capacitors.

Note: Confirm outline dimensions at time of order placement as they may change without notice.