

Three-Phase Medium-Voltage Capacitors



Application

Elgin three-phase medium-voltage capacitors use cutting-edge technology to efficiently secure the following applications in electrical systems:

- Power factor correction in industrial motors and busbars;
- Shunt compensation of reactive power;
- Passive harmonic filtration.

Fully Tested Equipment

Laboratory testing is performed to conduct the routine, type, and special tests set out in international standards (IEEE 18, IEC 60871, and IEC 60143).

Elgin's capacitors are manufactured in a state-of-the-art plant in Brazil with ISO 9001, ISO 14001, and ISO 45001 certifications.

Elgin has decades of experience delivering power factor and power quality products.

Design Features

All of our capacitors are manufactured as per the following technical specifications:

- "All-film" technology (dielectric with a polypropylene film) with an aluminum foil and a folded margin.
- Impregnation with WEMCOL II biodegradable oil, providing the best operation at different temperatures.
- Vitrified porcelain bushings as insulators, welded directly to the tank.
- Capacitance tolerance of 0% to +10%.
- Discharge resistor: 50V in 5 minutes. (Call us for other ratings and times.)
- Installation altitude up to 3,280 FT above sea level. (Call us for higher altitudes.)
- PCB-free equipment.
- Temperature Class from -40 °C to +50 °C. (Call us for other temperatures.)



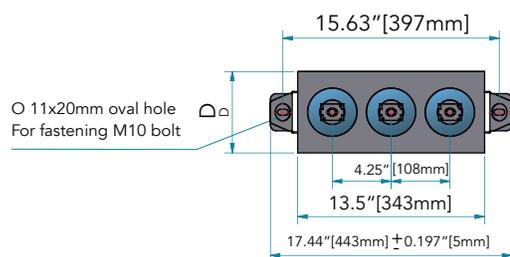
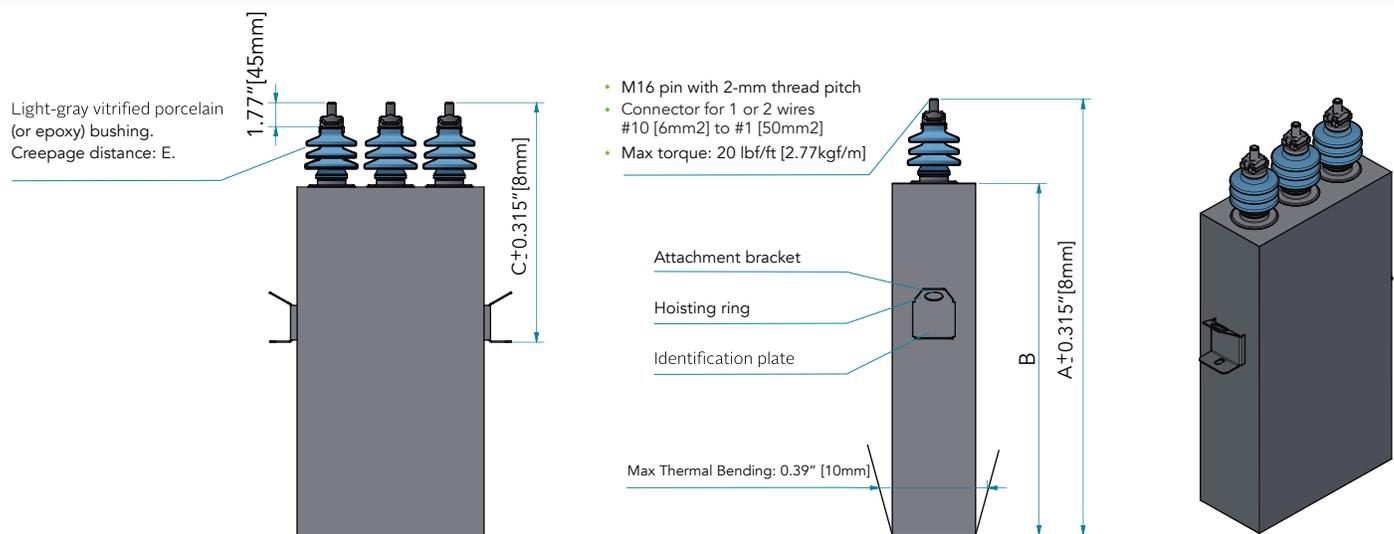
Three-Phase Medium-Voltage Capacitors

Typical values for capacitors

POWER (kVAR)	VOLTAGE (Vrms)	DIMENSIONS				
		A	B	C	D	E
50	2,700 to 7,200	12 5/8" (320mm)	6 5/16" (160mm)	12 5/8" (320mm)	5 1/8" (130mm)	7 7/8" (200mm)
75	2,700 to 7,200	13 3/4" (350mm)	7 1/2" (190mm)	13 3/4" (350mm)	5 1/8" (130mm)	7 7/8" (200mm)
100	2,700 to 7,200	15" (380mm)	8 11/16" (220mm)	15" (380mm)	5 1/2" (140mm)	7 7/8" (200mm)
150	2,700 to 7,200	17 3/4" (450mm)	11 7/16" (290mm)	17 3/4" (450mm)	5 1/2" (140mm)	7 7/8" (200mm)
200	2,700 to 7,200	20 1/16" (510mm)	13 3/4" (350mm)	17 3/4" (450mm)	6" (153mm)	7 7/8" (200mm)
300	2,700 to 7,200	24 7/16" (620mm)	18 1/8" (460mm)	17 3/4" (450mm)	6" (153mm)	7 7/8" (200mm)
350	3,300 to 7,200	28 3/8" (720mm)	22 1/16" (560mm)	17 3/4" (450mm)	6" (153mm)	7 7/8" (200mm)
400	4,160 to 7,200	30 11/16" (780mm)	24 7/16" (620mm)	17 3/4" (450mm)	6" (153mm)	7 7/8" (200mm)
450	4,160 to 7,200	32 5/16" (820mm)	26" (660mm)	17 3/4" (450mm)	6" (153mm)	7 7/8" (200mm)

- Under request, Three-phase capacitors can be made for voltages up to 15kV.

Three-phase power capacitor



Notes:

- Dimensions subject to changes without prior notice.
- Upon request: other voltages, powers, and capacitances may be considered.
- Size "C" may be changed at the client's request so as to adjust the attachment of the capacitor to the existing fastening structure.
- Capacitors with a nominal voltage above 7,200V may be supplied upon a prior request with the desired dimensions.
- Alternatively, epoxy resin bushings may be supplied, which provide superior mechanical rigidity and consequently increased resistance against insulating liquid leaks. Dimensions must be verified.
- 1/2" -13 male to M16 female threaded stud adapter can be supplied for capacitor terminals