



THE FIRST CHOICE OF ENERGY EFFICIENCY

200Q ELCO 0010

Rated Kvar
0010 – 1.0Kvar
II
0400 – 40.0Kvar

ELCO CYLINDRICAL TYPE POWER CAPACITOR

200 SERIES

6/15 KV

Three-phase Cylindrical - Type Power Capacitor is used to correct power factor for motors, low voltage transformer and inside industrial switchboard. It is sometimes used with blocking reactors with harmonics presence.

FEATURES

- Dry type, Cylindrical aluminum case
- 3 phase connection
- Rated voltage 440V
- Maximum permissible current 1.43x rated current
- Maximum inrush current 200 x rated current
- Compliance to standard IEC 60831 – 1 & 2
- Equipped with pressure activated series interruptor
- Statistical Life Expectancy > 150,000 operating hours

TECHNICAL SPECIFICATION

Construction		
Type	Dry Metalized Film, Self-Healing	
Casing	Cylindrical Extruded Aluminium Can	
Dielectric	Bi-Axially Oriented Polypropylene	
Plate	with Zinc-Aluminium Alloy	
Encapsulation/Impregnation	Polyurethane Resin	
Electrical Performance		
Rated Voltage (UN)	440V	
Frequency (fN)	50 / 60 Hz	
Connection	Internal Delta	
Temperature Category	D / -25°C to +55°C	
Relative Humidity	≤ 95%	
Capacitance Tolerance	-5% / 10%	
Dielectric Loss (excluding discharge resistor)	< 0.2W / kvar	
Total Losses (Including Discharge Resistor)	< 0.4W / kvar	
Total Losses (excluding discharge resistor)	< 0.3W / kvar	
Testing Voltage Between Terminals	2.15 UN For 2s	
Testing Voltage Between Terminals and Container / Time	3.66 KV / 10s	6.0 KV / 10s
Maximum Permissible Current	1.43 IN	
Lighting Impulse Test Between Terminal-Container	15KV (Peak)	
Maximum Inrush Current	200 IN	
Discharge Resistor	For 1 - 5 kvar	Internal / 3 sets of 2 x 6.3mm Double Tags
(Discharge time - 3 min to 75V)	For 10 - 30 kvar	External / 3 x M8 Treaded Cu Stud
	For 35 - 40 kvar	External / Internal / 3 x M10 Treaded Cu Stud
Capacitor Discharge Time	3 min to 75V	
Statistical Life Expectancy	> 150,000 Operating Hours	
Standards	IEC 60831-1 & 2	
Installation		
Terminal Arrangements	Nylon Insulated Top Decks with M8/ M10	
Screw Torque	M8 : ≤ 4 Nm	
	M10 : ≤ 10 Nm	
	M12 : ≤ 15 Nm	
Minimum Installation Clearance	50mm Between Top of Capacitor to Enclosure 50mm Between Units	
Service Condition		
Residual voltage at energization	Not exceed 10% rated voltage	
Altitude	Not exceeding 2000 m	
Maximum Permissible Voltage	1.00 UN - Continuous	
	1.10 UN - 8 H in every 24 H	
	1.15 UN - 30 min in every 24 H	
	1.20 UN - 5 min	
	1.30 UN - 1 min	
Safety Features		
Safety Device	Pressure Activated Series Interrupter IP54 (With Cable Gland and Cover - SIRIM)	
IP Rating	Upside down position	



PRODUCT INFORMATION - 200 SERIES

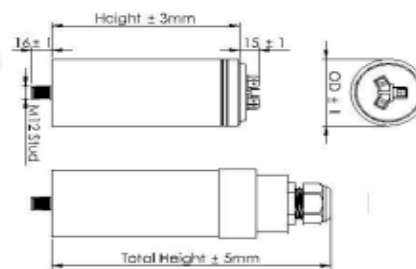
	f _N	50Hz						Dimension			Weight (kg)
	U _N	440		400		240		(mm)			+/- 0.2
Product Code	Capacitance (uF)	Q _N	I _N	Q _N	I _N	Q _N	I _N	OD	Height	Total Height	Weight
200QELCO0010	3 × 5.5	1.0	1.3	0.8	1.2	0.3	0.7	60	153	225	0.5
200QELCO0015	3 × 8.2	1.5	2.0	1.2	1.8	0.4	1.1	60	153	225	0.5
200QELCO0020	3 × 11.0	2.0	2.6	1.7	2.4	0.6	1.4	60	153	225	0.5
200QELCO0025	3 × 13.7	2.5	3.3	2.1	3.0	0.7	1.8	60	153	225	0.5
200QELCO0030	3 × 16.4	3.0	3.9	2.5	3.6	0.9	2.1	60	153	225	0.5
200QELCO0033	3 × 18.1	3.3	4.3	2.7	3.9	1.0	2.4	60	153	225	0.5
200QELCO0050	3 × 27.4	5.0	6.6	4.1	6.0	1.5	3.6	60	153	225	0.5
200QELCO0075	3 × 41.1	7.5	9.8	6.2	8.9	2.2	5.4	65	206	270	0.7
200QELCO0100	3 × 54.8	10.0	13.1	8.3	11.9	3.0	7.2	75	225	270	1.3
200QELCO0125	3 × 68.5	12.5	16.4	10.3	14.9	3.7	8.9	75	225	270	1.3
200QELCO0150	3 × 82.2	15.0	19.7	12.4	17.9	4.5	10.7	75	225	270	1.3
200QELCO0200	3 × 109.6	20.0	26.2	16.5	23.9	6.0	14.3	75	287	332	1.5
200QELCO0250	3 × 137.0	25.0	32.8	20.7	29.8	7.4	17.9	86	287	332	2.0
200QELCO0300	3 × 164.4	30.0	39.4	24.8	35.8	8.9	21.5	86	329	374	2.5
200QELCO0350	3 × 191.8	35.0	45.9	28.9	41.8	10.4	25.1	120	287	332	3.0
200QELCO0400	3 × 219.2	40.0	52.5	33.1	47.7	11.9	28.6	120	287	332	3.0

	f _N	60Hz						Dimension			Weight (kg)
	U _N	440		400		240		(mm)		+/- 0.2	
Product Code	Capacitance (uF)	Q _N	I _N	Q _N	I _N	Q _N	I _N	OD	Height	Total Height	Weight
200QELCO0010	3 × 5.5	1.2	1.6	1.0	1.4	0.4	0.9	60	153	225	0.5
200QELCO0015	3 × 8.2	1.8	2.4	1.5	2.1	0.5	1.3	60	153	225	0.5
200QELCO0020	3 × 11.0	2.4	3.1	2.0	2.9	0.7	1.7	60	153	225	0.5
200QELCO0025	3 × 13.7	3.0	3.9	2.5	3.6	0.9	2.1	60	153	225	0.5
200QELCO0030	3 × 16.4	3.6	4.7	3.0	4.3	1.1	2.6	60	153	225	0.5
200QELCO0033	3 × 18.1	4.0	5.2	3.3	4.7	1.2	2.8	60	153	225	0.5
200QELCO0050	3 × 27.4	6.0	7.9	5.0	7.2	1.8	4.3	60	153	225	0.5
200QELCO0075	3 × 41.1	9.0	11.8	7.4	10.7	2.7	6.4	65	206	270	0.7
200QELCO0100	3 × 54.8	12.0	15.7	9.9	14.3	3.6	8.6	75	225	270	1.3
200QELCO0125	3 × 68.5	15.0	19.7	12.4	17.9	4.5	10.7	75	225	270	1.3
200QELCO0150	3 × 82.2	18.0	23.6	14.9	21.5	5.4	12.9	75	225	270	1.3
200QELCO0200	3 × 109.6	24.0	31.5	19.8	28.6	7.1	17.2	75	287	332	1.5
200QELCO0250	3 × 137.0	30.0	39.4	24.8	35.8	8.9	21.5	86	287	332	2.0
200QELCO0300	3 × 164.4	36.0	47.2	29.8	42.9	10.7	25.8	86	329	374	2.5
200QELCO0350	3 × 191.8	42.0	55.1	34.7	50.1	12.5	30.1	120	287	332	3.0
200QELCO0400	3 × 219.2	48.0	63.0	39.7	57.3	14.3	34.4	120	287	332	3.0

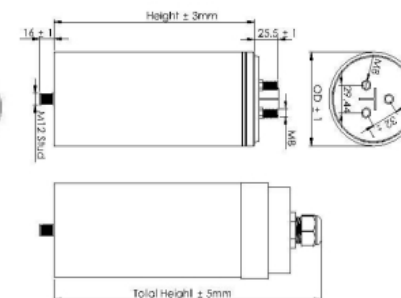
Q_N = kVar ; I_N = Amps

PRODUCT DIMENSION

1.0 KVAR to 7.5 KVAR



10.0 KVAR to 30.0 KVAR



35.0 KVAR to 40.0 KVAR

