

**ELCO CYLINDRICAL-TYPE POWER CAPACITOR 200/205 SERIES**



Three-phased Cylindrical-Type Power Capacitor is used to correct Power Factor for Motors, Low Voltage Transformers and inside Industrial Switchboard. It is sometimes used with blocking reactors with harmonics presence.

No.	Specifications	Data	
		200 Series	205 Series
1	Construction	Cylindrical	
2	External Terminal Box & Casing Finishing	Extruded Aluminum Casing	
3	Type	Dry, Self-Healing	
4	Dielectric	Bi-Axially Oriented Polypropylene	
5	Plate	Zinc-Aluminium Alloy	
6	Rated Voltage (UN)	440V	525V
7	Frequency (fN)	50 / 60 Hz	
8	Connection	Internal Delta	
9	Temperature Category	D / -25°C to +55°C	
10	Relative humidity (RH)	≤ 95%	
11	Capacitance Tolerance	-5% / 10%	
12	Dielectric Loss	≤ 0.2W / KVAR	
13	Total Losses (Including Discharge Resistor)	≤ 0.5W / KVAR	
14	Encapsulation/Impregnation	Polyurethanic Resin Oven Cured Flame Retardant	
15	Testing Voltage Between Terminals / time	2.15 UN / 2s	
16	Testing Voltage Between Terminals and Container / time	3000 V / 10s	6000 V / 10s
17	Maximum Permissible Voltage	1.10 UN - 8 Hrs In Every 24 Hrs 1.15 UN - 30 Mins In Every 24 Hrs 1.20 UN - 5 Mins 1.30 UN - 1 Min	
18	Maximum Permissible Current	1.43 IN	
19	Lightning Impulse Test Terminal-Container	15KV (Peak)	
20	Maximum Inrush Current	200 IN	
21	Discharge Resistor (Discharge time - 3 min to 75V)	For 1 - 5 Kvar	Internal / 3 sets of 2 x 6.3mm Double Tags
		For 10 - 30 Kvar	External / 3 x M8 Treaded Cu Stud
		For 35 - 40 Kvar	External / Internal / 3 x M10 Treaded Cu Stud
22	Screw Torque	M8 ≤ 4 Nm ; M10 ≤ 10 Nm ; M12 ≤ 15Nm	
23	Terminal Arrangements	Nylon Insulated Top Decks with M8 / M10 Tin Coated Brass Terminals	
24	Minimum Installation Clearance	50mm Between Top of Capacitor to Enclosure; 50mm between units	
25	Statistical Life Expectancy	> 150,000 Operating Hours	
26	Standards	IEC 60831-1/2	
27	IP Rating	IP54(With Cable Gland And Cover-SIRIM)	
28	Safety Device	Pressure Activated Series Interruptor	

**ELCO CYLINDRICAL-TYPE POWER CAPACITOR 200/205 SERIES**

Product Code	Rated Frequency, $f_N$ Rated Voltage, $U_N$ Capacitance ( $\mu F$ )	50Hz										60Hz										Dimension (mm)		Weight (kg) +/- 0.1	
		440V		415V		400V		380V		240V		440V		415V		400V		380V		240V		OD	H		
		$Q_N$	$I_N$	$Q_N$	$I_N$	$Q_N$	$I_N$	$Q_N$	$I_N$	$Q_N$	$I_N$	$Q_N$	$I_N$	$Q_N$	$I_N$	$Q_N$	$I_N$	$Q_N$	$I_N$	$Q_N$	$I_N$	$Q_N$	$I_N$		
200QELCO0010	3 x 5.48	1.0	1.3	0.9	1.2	0.8	1.2	0.7	1.1	0.3	0.7	1.2	1.6	1.1	1.5	1.0	1.4	0.9	1.4	0.4	0.9	60	150	0.5	
200QELCO0015	3 x 8.22	1.5	2.0	1.3	1.9	1.2	1.8	1.1	1.7	0.4	1.1	1.8	2.4	1.6	2.2	1.5	2.1	1.3	2.0	0.5	1.3	60	150	0.5	
200QELCO0020	3 x 10.96	2.0	2.6	1.8	2.5	1.7	2.4	1.5	2.3	0.6	1.4	2.4	3.1	2.1	3.0	2.0	2.9	1.8	2.7	0.7	1.7	60	150	0.5	
200QELCO0025	3 x 13.70	2.5	3.3	2.2	3.1	2.1	3.0	1.9	2.8	0.7	1.8	3.0	3.9	2.7	3.7	2.5	3.6	2.2	3.4	0.9	2.1	60	150	0.5	
200QELCO0030	3 x 16.44	3.0	3.9	2.7	3.7	2.5	3.6	2.2	3.4	0.9	2.1	3.6	4.7	3.2	4.5	3.0	4.3	2.7	4.1	1.1	2.6	60	150	0.5	
200QELCO0033	3 x 18.09	3.3	4.3	2.9	4.1	2.7	3.9	2.5	3.7	1.0	2.4	4.0	5.2	3.5	4.9	3.3	4.7	3.0	4.5	1.2	2.8	60	150	0.5	
200QELCO0050	3 x 27.40	5.0	6.6	4.4	6.2	4.1	6.0	3.7	5.7	1.5	3.6	6.0	7.9	5.3	7.4	5.0	7.2	4.5	6.8	1.8	4.3	65	200	0.8	
200QELCO0100	3 x 54.81	10.0	13.1	8.9	12.4	8.3	11.9	7.5	11.3	3.0	7.2	12.0	15.7	10.7	14.9	9.9	14.3	9.0	13.6	3.6	8.6	86	225	1.4	
200QELCO0125	3 x 68.51	12.5	16.4	11.1	15.5	10.3	14.9	9.3	14.2	3.7	8.9	15.0	19.7	13.3	18.6	12.4	17.9	11.2	17.0	4.5	10.7	86	225	1.4	
200QELCO0150	3 x 82.21	15.0	19.7	13.3	18.6	12.4	17.9	11.2	17.0	4.5	10.7	18.0	23.6	16.0	22.3	14.9	21.5	13.4	20.4	5.4	12.9	86	225	1.4	
200QELCO0200	3 x 109.61	20.0	26.2	17.8	24.8	16.5	23.9	14.9	22.7	6.0	14.3	24.0	31.5	21.4	29.7	19.8	28.6	17.9	27.2	7.1	17.2	86	287	1.8	
200QELCO0250	3 x 137.01	25.0	32.8	22.2	30.9	20.7	29.8	18.6	28.3	7.4	17.9	30.0	39.4	26.7	37.1	24.8	35.8	22.4	34.0	8.9	21.5	100	287	2.5	
200QELCO0300	3 x 164.42	30.0	39.4	26.7	37.1	24.8	35.8	22.4	34.0	8.9	21.5	36.0	47.2	32.0	44.6	29.8	42.9	26.9	40.8	10.7	25.8	100	287	2.5	
200QELCO0350	3 x 191.82	35.0	45.9	31.1	43.3	28.9	41.8	26.1	39.7	10.4	25.1	42.0	55.1	37.4	52.0	34.7	50.1	31.3	47.6	12.5	30.1	120	287	3.0	
200QELCO0400	3 x 219.22	40.0	52.5	35.6	49.5	33.1	47.7	29.8	45.3	11.9	28.6	48.0	63.0	42.7	59.4	39.7	57.3	35.8	54.4	14.3	34.4	120	287	3.0	

$Q_N = \text{kVAR}$  ;  $I_N = \text{Amps}$

Product Code	Rated Frequency, $f_N$ Rated Voltage, $U_N$ Capacitance ( $\mu F$ )	50Hz										60Hz								Dimension (mm)		Weight (kg)	
		525V		500V		480V		440V		525V		500V		480V		440V		OD	H				
		$Q_N$	$I_N$	$Q_N$	$I_N$	$Q_N$	$I_N$	$Q_N$	$I_N$	$Q_N$	$I_N$	$Q_N$	$I_N$	$Q_N$	$I_N$	$Q_N$	$I_N$	$Q_N$	$I_N$	$Q_N$	$I_N$		
205QELCO0010	3 x 3.85	1.0	1.1	0.9	1.0	0.8	1.0	0.7	0.9	1.2	1.3	1.1	1.3	1.0	1.2	0.8	1.1	60	150	0.5			
205QELCO0015	3 x 5.77	1.5	1.6	1.4	1.6	1.3	1.5	1.1	1.4	1.8	2.0	1.6	1.9	1.5	1.8	1.3	1.7	60	150	0.5			
205QELCO0020	3 x 7.70	2.0	2.2	1.8	2.1	1.7	2.0	1.4	1.8	2.4	2.6	2.2	2.5	2.0	2.4	1.7	2.2	60	150	0.5			
205QELCO0025	3 x 9.62	2.5	2.7	2.3	2.6	2.1	2.5	1.8	2.3	3.0	3.3	2.7	3.1	2.5	3.0	2.1	2.8	60	150	0.5			
205QELCO0030	3 x 11.55	3.0	3.3	2.7	3.1	2.5	3.0	2.1	2.8	3.6	4.0	3.3	3.8	3.0	3.6	2.5	3.3	60	150	0.5			
205QELCO0033	3 x 12.70	3.3	3.6	3.0	3.5	2.8	3.3	2.3	3.0	4.0	4.4	3.6	4.1	3.3	4.0	2.8	3.6	60	150	0.5			
205QELCO0050	3 x 19.25	5.0	5.5	4.5	5.2	4.2	5.0	3.5	4.6	6.0	6.6	5.4	6.3	5.0	6.0	4.2	5.5	65	200	0.8			
205QELCO0100	3 x 38.50	10.0	11.0	9.1	10.5	8.4	10.1	7.0	9.2	12.0	13.2	10.9	12.6	10.0	12.1	8.4	11.1	86	225	1.4			
205QELCO0125	3 x 48.12	12.5	13.7	11.3	13.1	10.4	12.6	8.8	11.5	15.0	16.5	13.6	15.7	12.5	15.1	10.5	13.8	86	225	1.4			
205QELCO0150	3 x 57.74	15.0	16.5	13.6	15.7	12.5	15.1	10.5	13.8	18.0	19.8	16.3	18.9	15.0	18.1	12.6	16.6	86	225	1.4			
205QELCO0200	3 x 76.99	20.0	22.0	18.1	20.9	16.7	20.1	14.0	18.4	24.0	26.4	21.8	25.1	20.1	24.1	16.9	22.1	86	287	1.8			
205QELCO0250	3 x 96.24	25.0	27.5	22.7	26.2	20.9	25.1	17.6	23.0	30.0	33.0	27.2	31.4	25.1	30.2	21.1	27.6	100	287	2.5			
205QELCO0300	3 x 115.49	30.0	33.0	27.2	31.4	25.1	30.2	21.1	27.6	36.0	39.6	32.7	37.7	30.1	36.2	25.3	33.2	100	287	2.5			
205QELCO0350	3 x 134.73	35.0	38.5	31.7	36.7	29.3	35.2	24.6	32.3	42.0	46.2	38.1	44.0	35.1	42.2	29.5	38.7	120	287	3.0			
205QELCO0400	3 x 153.98	40.0	44.0	36.3	41.9	33.4	40.2	28.1	36.9	48.0	52.8	43.5	50.3	40.1	48.3	33.7	44.2	120	287	3.0			

$Q_N = \text{kVAR}$  ;  $I_N = \text{Amps}$

**PRODUCT DIMENSION**

