



THE FIRST CHOICE OF ENERGY EFFICIENCY

205Q ELCO 0010

Rated Kvar
0010 – 1.0Kvar
II
0400 – 40.0Kvar

ELCO CYLINDRICAL TYPE POWER CAPACITOR

205 SERIES

6/15 KV

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)	525V	
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	
IP Rating	IP54 (With Cable Gland and Cover - SIRIM)	
	Upside down position	

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 525V
- 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



PRODUCT INFORMATION - 205 SERIES

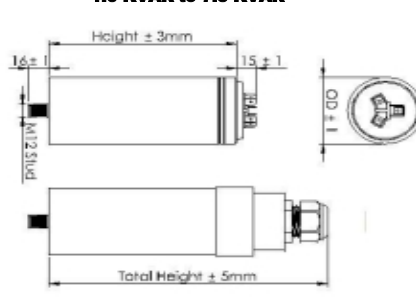
Product Code	f _N U _N Capacitance (uF)	50Hz								Dimension (mm)			Weight (kg) +/- 0.2
		525		500		480		400		OD	Height	Total Height	Weight
205QELCO00010	3 x 3.8	1.0	1.1	0.9	1.0	0.8	1.0	0.6	0.8	60	153	225	0.5
205QELCO00015	3 x 5.8	1.5	1.6	1.4	1.6	1.3	1.5	0.9	1.3	60	153	225	0.5
205QELCO00020	3 x 7.7	2.0	2.2	1.8	2.1	1.7	2.0	1.2	1.7	60	153	225	0.5
205QELCO00025	3 x 9.6	2.5	2.7	2.3	2.6	2.1	2.5	1.5	2.1	60	153	225	0.5
205QELCO00030	3 x 11.5	3.0	3.3	2.7	3.1	2.5	3.0	1.7	2.5	60	153	225	0.5
205QELCO00033	3 x 12.7	3.3	3.6	3.0	3.5	2.8	3.3	1.9	2.8	60	153	225	0.5
205QELCO00050	3 x 19.2	5.0	5.5	4.5	5.2	4.2	5.0	2.9	4.2	65	206	270	0.7
205QELCO00075	3 x 28.9	7.5	8.2	6.8	7.9	6.3	7.5	4.4	6.3	65	206	270	0.8
205QELCO00100	3 x 38.5	10.0	11.0	9.1	10.5	8.4	10.1	5.8	8.4	86	225	292	1.4
205QELCO00125	3 x 48.1	12.5	13.7	11.3	13.1	10.4	12.6	7.3	10.5	86	225	292	1.4
205QELCO00150	3 x 57.7	15.0	16.5	13.6	15.7	12.5	15.1	8.7	12.6	86	225	292	1.4
205QELCO00200	3 x 77.0	20.0	22.0	18.1	20.9	16.7	20.1	11.6	16.8	86	287	360	1.8
205QELCO00250	3 x 96.2	25.0	27.5	22.7	26.2	20.9	25.1	14.5	20.9	100	287	360	2.5
205QELCO00300	3 x 115.5	30.0	33.0	27.2	31.4	25.1	30.2	17.4	25.1	100	287	360	2.5
205QELCO00350	3 x 134.7	35.0	38.5	31.7	36.7	29.3	35.2	20.3	29.3	120	287	360	3.0
205QELCO0400	3 x 154.0	40.0	44.0	36.3	41.9	33.4	40.2	23.2	33.5	120	287	360	3.0

Product Code	f _N U _N Capacitance (uF)	60Hz								Dimension (mm)			Weight (kg) +/- 0.2
		525		500		480		400		OD	Height	Total Height	Weight
205QELCO00010	3 x 3.8	1.2	1.3	1.1	1.3	1.0	1.2	0.7	1.0	60	153	225	0.5
205QELCO00015	3 x 5.8	1.8	2.0	1.6	1.9	1.5	1.8	1.0	1.5	60	153	225	0.5
205QELCO00020	3 x 7.7	2.4	2.6	2.2	2.5	2.0	2.4	1.4	2.0	60	153	225	0.5
205QELCO00025	3 x 9.6	3.0	3.3	2.7	3.1	2.5	3.0	1.7	2.5	60	153	225	0.5
205QELCO00030	3 x 11.5	3.6	4.0	3.3	3.8	3.0	3.6	2.1	3.0	60	153	225	0.5
205QELCO00033	3 x 12.7	4.0	4.4	3.6	4.1	3.3	4.0	2.3	3.3	60	153	225	0.5
205QELCO00050	3 x 19.2	6.0	6.6	5.4	6.3	5.0	6.0	3.5	5.0	65	206	270	0.7
205QELCO00075	3 x 28.9	9.0	9.9	8.2	9.4	7.5	9.0	5.2	7.5	65	206	270	0.8
205QELCO00100	3 x 38.5	12.0	13.2	10.9	12.6	10.0	12.1	7.0	10.1	86	225	292	1.4
205QELCO00125	3 x 48.1	15.0	16.5	13.6	15.7	12.5	15.1	8.7	12.6	86	225	292	1.4
205QELCO00150	3 x 57.7	18.0	19.8	16.3	18.9	15.0	18.1	10.4	15.1	86	225	292	1.4
205QELCO00200	3 x 77.0	24.0	26.4	21.8	25.1	20.1	24.1	13.9	20.1	86	287	360	1.8
205QELCO00250	3 x 96.2	30.0	33.0	27.2	31.4	25.1	30.2	17.4	25.1	100	287	360	2.5
205QELCO00300	3 x 115.5	36.0	39.6	32.7	37.7	30.1	36.2	20.9	30.2	100	287	360	2.5
205QELCO00350	3 x 134.7	42.0	46.2	38.1	44.0	35.1	42.2	24.4	35.2	120	287	360	3.0
205QELCO0400	3 x 154.0	48.0	52.8	43.5	50.3	40.1	48.3	27.9	40.2	120	287	360	3.0

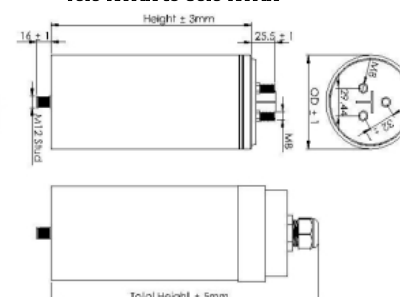
Q_N = KVAR ; I_N = Amps

PRODUCT DIMENSION

1.0 KVAR to 7.5 KVAR



10.0 KVAR to 30.0 KVAR



35.0 KVAR to 40.0 KVAR

