



THE FIRST CHOICE OF ENERGY EFFICIENCY

705Q ELCO 0086

Rated Kvar
0086 – 8.6Kvar
II
0430 – 43.0Kvar

ELCO CYLINDRICAL TYPE POWER CAPACITOR

705 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
- Available for 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



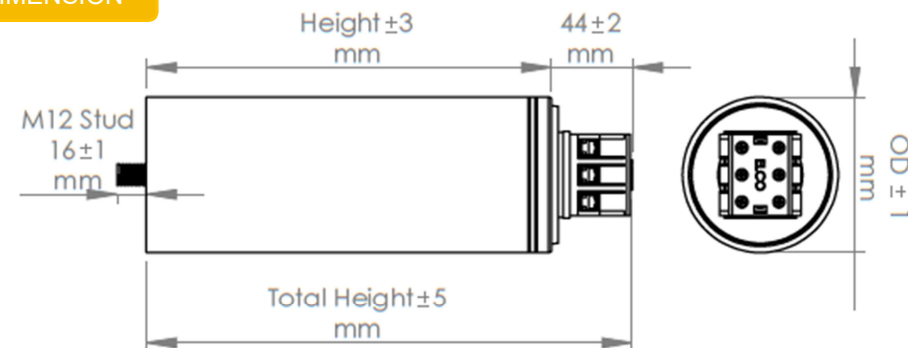
PRODUCT INFORMATION - 705 SERIES

	f _N	50Hz								Dimension			Weight (kg)
	U _N	525		500		480		400		(mm)			+/- 0.2
Product Code	Capacitance (uF)	Q _N	I _N	Q _N	I _N	Q _N	I _N	Q _N	I _N	OD	Height	Total Height	Weight
705QELCO0086	3 x 33.1	8.6	9.5	7.8	9.0	7.2	8.6	5.0	7.2	75	225	292	1.4
705QELCO0100	3 x 38.5	10.0	11.0	9.1	10.5	8.4	10.1	5.8	8.4	75	225	292	1.4
705QELCO0125	3 x 48.1	12.5	13.7	11.3	13.1	10.4	12.6	7.3	10.5	75	225	292	1.4
705QELCO0150	3 x 57.7	15.0	16.5	13.6	15.7	12.5	15.1	8.7	12.6	75	287	360	1.4
705QELCO0172	3 x 66.2	17.2	18.9	15.6	18.0	14.4	17.3	10.0	14.4	86	287	360	1.8
705QELCO0200	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
705QELCO0215	3 x 82.7	21.5	23.6	19.5	22.5	18.0	21.6	12.5	18.0	86	287	360	1.8
705QELCO0250	3 x 96.2	25.0	27.5	22.7	26.2	20.9	25.1	14.5	20.9	86	287	360	1.8
705QELCO0258	3 x 99.3	25.8	28.4	23.4	27.0	21.6	25.9	15.0	21.6	86	287	360	1.8
705QELCO0300	3 x 115.5	30.0	33.0	27.2	31.4	25.1	30.2	17.4	25.1	86	329	360	1.8
705QELCO0350	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
705QELCO0400	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
705QELCO0430	3 x 165.5	43.0	47.3	39.0	45.0	35.9	43.2	25.0	36.0	120	287	360	3.0

	f _N	60Hz								Dimension			Weight (kg)
	U _N	525		500		480		400		(mm)			+/- 0.2
Product Code	Capacitance (uF)	Q _N	I _N	Q _N	I _N	Q _N	I _N	Q _N	I _N	OD	Height	Total Height	Weight
705QELCO0086	3 x 33.1	10.3	11.3	9.4	10.8	8.6	10.4	6.0	8.6	75	225	292	1.4
705QELCO0100	3 x 38.5	12.0	13.2	10.9	12.6	10.0	12.1	7.0	10.1	75	225	292	1.4
705QELCO0125	3 x 48.1	15.0	16.5	13.6	15.7	12.5	15.1	8.7	12.6	75	225	292	1.4
705QELCO0150	3 x 57.7	18.0	19.8	16.3	18.9	15.0	18.1	10.4	15.1	75	287	360	1.4
705QELCO0172	3 x 66.2	20.6	22.7	18.7	21.6	17.3	20.8	12.0	17.3	86	287	360	1.8
705QELCO0200	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
705QELCO0218	3 x 82.7	25.8	28.4	23.4	27.0	21.6	25.9	15.0	21.6	86	287	360	1.8
705QELCO0250	3 x 96.2	30.0	33.0	27.2	31.4	25.1	30.2	17.4	25.1	86	287	360	1.8
705QELCO0258	3 x 99.3	31.0	34.0	28.1	32.4	25.9	31.1	18.0	25.9	86	287	360	1.8
705QELCO0300	3 x 115.5	36.0	39.6	32.7	37.7	30.1	36.2	20.9	30.2	86	329	360	1.8
705QELCO0350	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
705QELCO0400	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
705QELCO0430	3 x 165.5	51.6	56.7	46.8	54.0	43.1	51.9	30.0	43.2	120	287	360	3.0

Q_N = kVar ; I_N = Amps

PRODUCT DIMENSION



8.6 kvar to 43 kvar

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 Oven Cured		
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	6 kV / 10s		
Maximum Permissible Current	1.43 IN		
Lighting Impulse Test Between Terminal-Container	15KV (Peak)		
Maximum Inrush Current	200 IN		
Capacitor Discharge Time	3 min to 75V		
Statistical Life Expectancy	> 150,000 Operating Hours		
Standards	IEC 60831-1 & 2		
Installation			
Terminal Arrangements	Terminal Block		
Screw Torque	M5 : ≤ 2 Nm , M12 : ≤ 15 Nm		
Minimum Installation Clearance	50mm Between Top of Capacitor to Enclosure and 50mm Between Units		
Service Condition			
Residual voltage at energization	Not exceed 10% rated voltage		
Altitude	Not exceeding 2000 m		
Ambient temperature : Highest mean over any period of	24 Hours : 45°C , 1 year : 35°C		
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	1.3 UN - 1 min	
Safety Features			
Safety Device	Pressure Activated Series Interrupter		
IP Rating	IP20		