



# THE FIRST CHOICE OF ENERGY EFFICIENCY

705Q ELCO 0100

Rated Kvar  
0100 – 10.0Kvar  
0400 – 40.0Kvar

## 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 : 2014
- Equipped with pressure activated series interruptor
- Statistical Life Expectancy > 150,000 operating hours

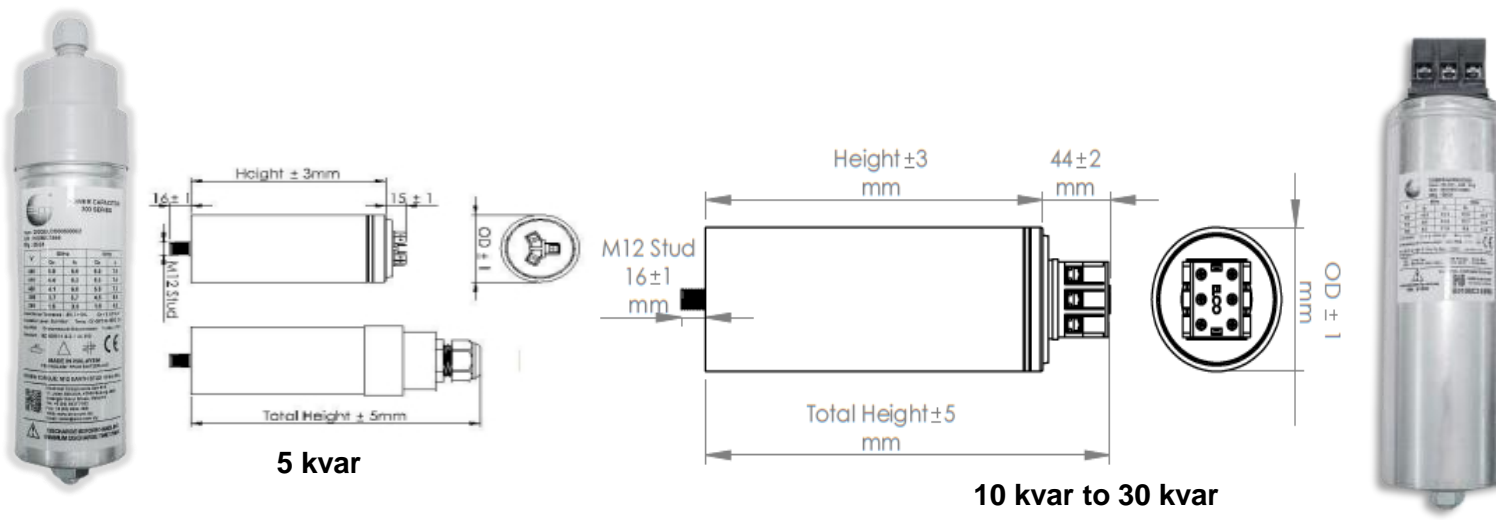
#### PRODUCT INFORMATION - 705 SERIES

Product Code	f <sub>N</sub> U <sub>N</sub>	50Hz								Dimension (mm)			Weight (kg)
		525		500		480		400		OD	Height	Total Height	+/- 0.2
Capacitance (uF)	Q <sub>N</sub>	I <sub>N</sub>	Q <sub>N</sub>	I <sub>N</sub>	Q <sub>N</sub>	I <sub>N</sub>	Q <sub>N</sub>	I <sub>N</sub>	Q <sub>N</sub>	I <sub>N</sub>			
705QELCO0050	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
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
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
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
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
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

Product Code	f <sub>N</sub> U <sub>N</sub>	60Hz								Dimension (mm)			Weight (kg)
		525		500		480		400		OD	Height	Total Height	+/- 0.2
Capacitance (uF)	Q <sub>N</sub>	I <sub>N</sub>	Q <sub>N</sub>	I <sub>N</sub>	Q <sub>N</sub>	I <sub>N</sub>	Q <sub>N</sub>	I <sub>N</sub>	Q <sub>N</sub>	I <sub>N</sub>			
705QELCO0050	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
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
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
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
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
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

#### PRODUCT DIMENSION

Q<sub>N</sub> = kVar ; I<sub>N</sub> = Amps



5 kvar

10 kvar to 30 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
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 : 2014
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