

THE FIRST CHOICE IN ENERGY EFFICIENCY

CYLINDRICAL-TYPE POWER CAPACITOR		
700 SERIES		
3/8KV	4/12KV	6/15KV

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.

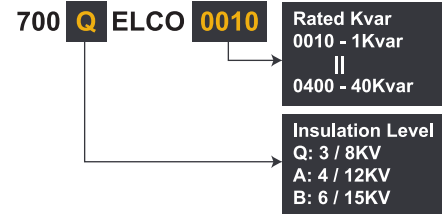
FEATURES

- Dry type, cylindrical aluminium case
- 3 phase connection
- 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

700 Series	
Construction	
Type	Dry, Self-Healing
Casing	Cylindrical Extruded Aluminum Can
Dielectric	Bi-Axially Oriented Polypropylene, with Zinc-Aluminum Alloy
Encapsulation/Impregnation	Polyurethane Resin Oven Cured Flame Retardant
Electrical Performance	
Rated Voltage (U_N)	440V
Frequency (f_N)	50 / 60 Hz
Connection	Internal Delta
Temperature Category	D / -25°C to +55°C
Relative Humidity	≤ 95%
Capacitance Tolerance	-5% / 10%
Dielectric Loss	< 0.2W / KVAR
Total Losses (Including Discharge resistor)	< 0.5W / KVAR
Testing Voltage Between Terminals	2.15 U_N For 2s
Testing Voltage Between Terminals and Container	3000 V / 10s 4000 V / 10s 6000 V / 10s
Lightning Impulse Test Between Terminal-Container	8 KV 12 KV 15 KV
Maximum Permissible Voltage For 8 hrs in every 24 hrs	1.10 U_N
Maximum Permissible Current	1.43 I_N
Maximum Inrush Current	200 I_N
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 50mm Between units
Altitude Above Sea Level (Max)	2000m
Safety Features	
Safety Device	Pressure Activated Series Interrupter
IP Rating	IP20





PRODUCT INFORMATION - 700 SERIES

Product Code	f_N	50Hz						Dimension (mm)			Weight (kg)
	U_N	440		400		240		OD	Height	Total Height	Weight
	Ordering Code	QN	IN	QN	IN	QN	IN				
700QELCO0010	ELCO-440-1M-001	1.0	1.3	0.8	1.2	0.3	0.7	60	153	225	0.5
700QELCO0015	ELCO-440-1M-0015	1.5	2.0	1.2	1.8	0.4	1.1	60	153	225	0.5
700QELCO0020	ELCO-440-1M-002	2.0	2.6	1.7	2.4	0.6	1.4	60	153	225	0.5
700QELCO0025	ELCO-440-1M-0025	2.5	3.3	2.1	3.0	0.7	1.8	60	153	225	0.5
700QELCO0030	ELCO-440-1M-003	3.0	3.9	2.5	3.6	0.9	2.1	60	153	225	0.5
700QELCO0050	ELCO-440-1M-005	5.0	6.6	4.1	6.0	1.5	3.6	60	153	225	0.5
700QELCO0100	ELCO-440-1M-010	10.0	13.1	8.3	11.9	3.0	7.2	75	225	270	1.3
700QELCO0150	ELCO-440-1M-015	15.0	19.7	12.4	17.9	4.5	10.7	75	225	270	1.3
700QELCO0200	ELCO-440-1M-020	20.0	26.2	16.5	23.9	6.0	14.3	75	287	332	2.0
700QELCO0250	ELCO-440-1M-025	25.0	32.8	20.7	29.8	7.4	17.9	86	287	332	2.0
700QELCO0300	ELCO-440-1M-030	30.0	39.4	24.8	35.8	8.9	21.5	86	329	374	2.5
700QELCO0400	ELCO-440-1.2M-2HBP-040	40.0	52.5	33.1	47.7	11.9	28.6	2 x 20 Kvar			3.0
700QELCO0500	ELCO-440-1.2M-2HBP-050	50.0	65.6	41.3	59.6	14.9	35.8	2 x 25 Kvar			4.0
700QELCO0600	ELCO-440-1.2M-2HBP-060	60.0	78.7	49.6	71.6	17.9	42.9	2 x 30 Kvar			5.0
700QELCO0750	ELCO-440-1.2M-3HBP-075	75.0	98.4	62.0	89.5	22.3	53.7	3 x 25 Kvar			6.0
700QELCO0800	ELCO-440-1.2M-4HBP-080	80.0	105.0	66.1	95.4	23.8	57.3	4 x 20 Kvar			6.0
700QELCO1000	ELCO-440-1.2M-4HBP-100	100.0	131.2	82.6	119.3	29.8	71.6	4 x 25 Kvar			8.0
700QELCO1200	ELCO-440-1.2M-4HBP-120	120.0	157.5	99.2	143.1	35.7	85.9	4 x 30 Kvar			10.0

Product Code	f_N	60Hz						Dimension (mm)			Weight (kg)
	U_N	440		400		240		OD	Height	Total Height	Weight
	Ordering Code	QN	IN	QN	IN	QN	IN				
700QELCO0010	ELCO-440-1M-001	1.2	1.6	1.0	1.4	0.4	0.9	60	153	225	0.5
700QELCO0015	ELCO-440-1M-0015	1.8	2.4	1.5	2.1	0.5	1.3	60	153	225	0.5
700QELCO0020	ELCO-440-1M-002	2.4	3.1	2.0	2.9	0.7	1.7	60	153	225	0.5
700QELCO0025	ELCO-440-1M-0025	3.0	3.9	2.5	3.6	0.9	2.1	60	153	225	0.5
700QELCO0030	ELCO-440-1M-003	3.6	4.7	3.0	4.3	1.1	2.6	60	153	225	0.5
700QELCO0050	ELCO-440-1M-005	6.0	7.9	5.0	7.2	1.8	4.3	60	153	225	0.5
700QELCO0100	ELCO-440-1M-010	12.0	15.7	9.9	14.3	3.6	8.6	75	225	270	1.3
700QELCO0150	ELCO-440-1M-015	18.0	23.6	14.9	21.5	5.4	12.9	75	225	270	1.3
700QELCO0200	ELCO-440-1M-020	24.0	31.5	19.8	28.6	7.1	17.2	75	287	332	1.5
700QELCO0250	ELCO-440-1M-025	30.0	39.4	24.8	35.8	8.9	21.5	86	287	332	2.0
700QELCO0300	ELCO-440-1M-030	36.0	47.2	29.8	42.9	10.7	25.8	86	329	374	2.5
700QELCO0400	ELCO-440-1.2M-2HBP-040	48.0	63.0	39.7	57.3	14.3	34.4	2 x 20 Kvar			3.0
700QELCO0500	ELCO-440-1.2M-2HBP-050	60.0	78.7	49.6	71.6	17.9	42.9	2 x 25 Kvar			4.0
700QELCO0600	ELCO-440-1.2M-2HBP-060	72.0	94.5	59.5	85.9	21.4	51.5	2 x 30 Kvar			5.0
700QELCO0750	ELCO-440-1.2M-3HBP-075	90.0	118.1	74.4	107.4	26.8	64.4	3 x 25 Kvar			6.0
700QELCO0800	ELCO-440-1.2M-4HBP-080	96.0	126.0	79.3	114.5	28.6	68.7	4 x 20 Kvar			6.0
700QELCO1000	ELCO-440-1.2M-4HBP-100	120.0	157.5	99.2	143.1	35.7	85.9	4 x 25 Kvar			8.0
700QELCO1200	ELCO-440-1.2M-4HBP-120	144.0	189.0	119.0	171.8	42.8	103.1	4 x 30 Kvar			10.0

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

PRODUCT DIMENSION

