

# THE FIRST CHOICE IN ENERGY EFFICIENCY

## ELCO CYLINDRICAL-TYPE CAPACITOR BANK

### 205 SERIES

3/8KV      4/12KV      6/15KV



Three-phased Cylindrical-Type Capacitor Bank 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.

#### PRODUCT SPECIFICATION

No.	Specifications	Data
1	Construction	Cylindrical
2	External Terminal Box & Casing Finishing	Aluminum
3	Type	Dry, Self-Healing
4	Dielectric	Bi-Axially Oriented Polypropylene
5	Plate	Zinc-Aluminium Alloy
6	Rated Voltage ( $U_N$ )	525V
7	Frequency ( $f_N$ )	50 / 60 Hz
8	Connection	Internal Delta
9	Temperature Category	D / -25°C to +55°C
10	Capacitance Tolerance	-5% / +10%
11	Dielectric Loss	$\leq 0.2W / KVAR$
12	Testing Voltage Between Terminals / time	2.15 $U_N / 2s$
13	Testing Voltage Between Terminals and Container / time	3000 V / 10s   4000 V / 10s   6000 V / 10s
14	Lightning Impulse Test Between Terminal-Container	8 KV   12 KV   15 KV
15	Maximum Permissible Voltage For 8 hrs in every 24 hrs	1.1 $U_N$
16	Maximum Permissible Current	1.43 $I_N$
17	Maximum Inrush Current	200 $I_N$
18	Discharge Resistor	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
19	Screw Torque	M8 < 4Nm; M12 < 10Nm
20	Minimum Installation Clearance	50mm Between Top of Capacitor to Enclosure; 50mm between units
21	Service Life	> 100,000 Operating Hours
22	Standards	IEC 60831-1/2
23	Safety Device	Internal Over-Pressure Disconnecter
24	Altitude Above Sea Level (Max)	2000m



205 **Q** ELCO **0010**

Rated Kvar  
0010 - 1Kvar  
||  
0400 - 40Kvar

Insulation Level  
Q: 3 / 8KV  
A: 4 / 12KV  
B: 6 / 15KV

## PRODUCT INFORMATION - 205 SERIES

Product Code	$f_N$	50Hz								Dimension (mm)			Weight (kg) +/- 0.2
	$U_N$	525		500		480		400		OD	Height	Total Height	Weight
	Ordering Code	$Q_N$	$I_N$	$Q_N$	$I_N$	$Q_N$	$I_N$	$Q_N$	$I_N$				
205QELCO0050	ELCO-525-1.3M-005	5.0	5.5	4.5	5.2	4.2	5.0	2.9	4.2	65	206	270	0.5
205QELCO0100	ELCO-525-1.3M-010	10.0	11.0	9.1	10.5	8.4	10.1	5.8	8.4	86	225	292	1.4
205QELCO0150	ELCO-525-1.3M-015	15.0	16.5	13.6	15.7	12.5	15.1	8.7	12.6	86	225	292	1.4
205QELCO0200	ELCO-525-1.3M-020	20.0	22.0	18.1	20.9	16.7	20.1	11.6	16.8	86	287	360	2.0
205QELCO0250	ELCO-525-1.3M-025	25.0	27.5	22.7	26.2	20.9	25.1	14.5	20.9	100	287	360	2.5
205QELCO0300	ELCO-525-1.3M-030	30.0	33.0	27.2	31.4	25.1	30.2	17.4	25.1	100	287	360	2.5
205QELCO0400	ELCO-525-1.3M-2HBP-040	40.0	44.0	36.3	41.9	33.4	40.2	23.2	33.5	2 x 20 Kvar			4.0
205QELCO0500	ELCO-525-1.3M-2HBP-050	50.0	55.0	45.4	52.4	41.8	50.3	29.0	41.9	2 x 25 Kvar			5.0
205QELCO0600	ELCO-525-1.3M-2HBP-060	60.0	66.0	54.4	62.8	50.2	60.3	34.8	50.3	2 x 30 Kvar			5.0
205QELCO0750	ELCO-525-1.3M-3HBP-075	75.0	82.5	68.0	78.6	62.7	75.4	43.5	62.8	3 x 25 Kvar			7.5
205QELCO0800	ELCO-525-1.3M-4HBP-080	80.0	88.0	72.6	83.8	66.9	80.4	46.4	67.0	4 x 20 Kvar			8.0
205QELCO1000	ELCO-525-1.3M-4HBP-100	100.0	110.0	90.7	104.7	83.6	100.5	58.0	83.8	4 x 25 Kvar			10.0
205QELCO1200	ELCO-525-1.3M-4HBP-120	120.0	132.0	108.8	125.7	100.3	120.7	69.7	100.5	4 x 30 Kvar			10.0

Product Code	$f_N$	60Hz								Dimension (mm)			Weight (kg) +/- 0.2
	$U_N$	525		500		480		400		OD	Height	Total Height	Weight
	Ordering Code	$Q_N$	$I_N$	$Q_N$	$I_N$	$Q_N$	$I_N$	$Q_N$	$I_N$				
205QELCO0050	ELCO-525-1.3M-005	6.0	6.6	5.4	6.3	5.0	6.0	3.5	5.0	65	206	270	0.5
205QELCO0100	ELCO-525-1.3M-010	12.0	13.2	10.9	12.6	10.0	12.1	7.0	10.1	86	225	292	1.4
205QELCO0150	ELCO-525-1.3M-015	18.0	19.8	16.3	18.9	15.0	18.1	10.4	15.1	86	225	292	1.4
205QELCO0200	ELCO-525-1.3M-020	24.0	26.4	21.8	25.1	20.1	24.1	13.9	20.1	86	287	360	2.0
205QELCO0250	ELCO-525-1.3M-025	30.0	33.0	27.2	31.4	25.1	30.2	17.4	25.1	100	287	360	2.5
205QELCO0300	ELCO-525-1.3M-030	36.0	39.6	32.7	37.7	30.1	36.2	20.9	30.2	100	287	360	2.5
205QELCO0400	ELCO-525-1.3M-2HBP-040	48.0	52.8	43.5	50.3	40.1	48.3	27.9	40.2	2 x 20 Kvar			4.0
205QELCO0500	ELCO-525-1.3M-2HBP-050	60.0	66.0	54.4	62.8	50.2	60.3	34.8	50.3	2 x 25 Kvar			5.0
205QELCO0600	ELCO-525-1.3M-2HBP-060	72.0	79.2	65.3	75.4	60.2	72.4	41.8	60.3	2 x 30 Kvar			5.0
205QELCO0750	ELCO-525-1.3M-3HBP-075	90.0	99.0	81.6	94.3	75.2	90.5	52.2	75.4	3 x 25 Kvar			7.5
205QELCO0800	ELCO-525-1.3M-4HBP-080	96.0	105.6	87.1	100.5	80.2	96.5	55.7	80.4	4 x 20 Kvar			8.0
205QELCO1000	ELCO-525-1.3M-4HBP-100	120.0	132.0	108.8	125.7	100.3	120.7	69.7	100.5	4 x 25 Kvar			10.0
205QELCO1200	ELCO-525-1.3M-4HBP-120	144.0	158.4	130.6	150.8	120.4	144.8	83.6	120.7	4 x 30 Kvar			10.0

$Q_N$  = kVar ;  $I_N$  = Amps

## PRODUCT DIMENSION

