

# CONDENSATORS



Electric motors, transformer etc. Power capacitors are used to meet the reactive power requirement in enterprises with inductive character where devices are located. Reactive power control relays meet the reactive needs of the enterprise by switching capacitors on and off by means of contactors or semiconductor switching elements and ensure that the reactive ratios remain below the desired ratios.

## KEY FEATURES

- IEC 60831-2 standards are provided.
- Nominal voltages: 230 - 400 - 440 - 480 - 525 V AC.
- Nominal frequency: 50 - 60 Hz range.
- Dielectric Losses (W/kVAr) < 0,20.
- Total Losses (/ kVAr) < 0,25.
- Maximum voltage is  $U_n + 10\%$  (8/24 hours).
- Maximum current  $1.3 \times I_n$ .
- Capacity tolerance: -5% - +10%.
- Terminal test voltage:  $2.15 \times U_n$ , AC 2S.
- Case terminal test voltage: 3kV, AC 10S.
- Inrush current maximum:  $200 \times I_n$ .
- Service life of capacitors under normal conditions;  
130,000 hours at temperature level D (+55°C).  
150,000 hours at temperature level D (+50°C).
- The ambient temperature is between -40°C and +55°C.
- The insulation system consists of a dry-type, metallised polypropylene (MKP) film with self-healing features.
- Its impregnation is PCB-free and has resinous protection properties.
- The protection is sensitive to overpressure with 3 phase circuit separator.
- Humidity in the working environment is less than 95%.
- The internal discharge resistor can reduce the voltage on the capacitor to 50 V in 1 minute.

# SINGLE PHASE CAPACITORS

## TECHNICAL FEATURES

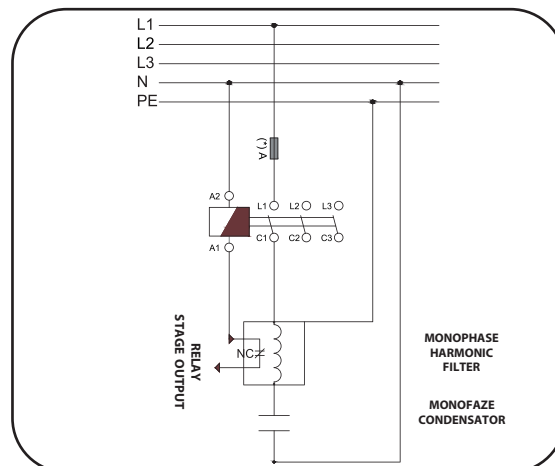


Product Code	Product Name	Product Description	Current (A) (for 230 V)	Power kVAr		Weight (Kg)
				230 (V)	400 (V)	
GA7101	KND M0.25	0.25 kVAr 230V CONDENSATOR	1.08	0.25	0.75	0,60
GA7102	KND M0.5	0.5 kVAr 230V CONDENSATOR	2.17	0.50	1.50	0,60
GA7103	KND M1.0	1.0 kVAr 230V CONDENSATOR	4.34	1.00	3.00	0,70
GA7104	KND M1.5	1.5 kVAr 230V CONDENSATOR	6.52	1.50	4.50	0,70
GA7105	KND M2.5	2.5 kVAr 230V CONDENSATOR	10.86	2.50	7.50	1,15
GA7106	KND M5.0	5.0 kVAr 230V CONDENSATOR	21.73	5.00	15.00	1,65
GA7107	KND M7.5	7.5 kVAr 230V CONDENSATOR	32.06	7.50	22.50	2,90
GA7108	KND M10.0	10.0 kVAr 230V CONDENSATOR	43.47	10.00	30.00	2,90

## TECHNICAL DRAWINGS

Product Name	A (mm)	B (mm)
KND M0.25	90	50
KND M0.5	100	50
KND M1.0	100	65
KND M1.5	130	65
KND M2.5	195	75
KND M5.0	205	90
KND M7.5	245	100
KND M10.0	245	117

## CONNECTION DIAGRAM



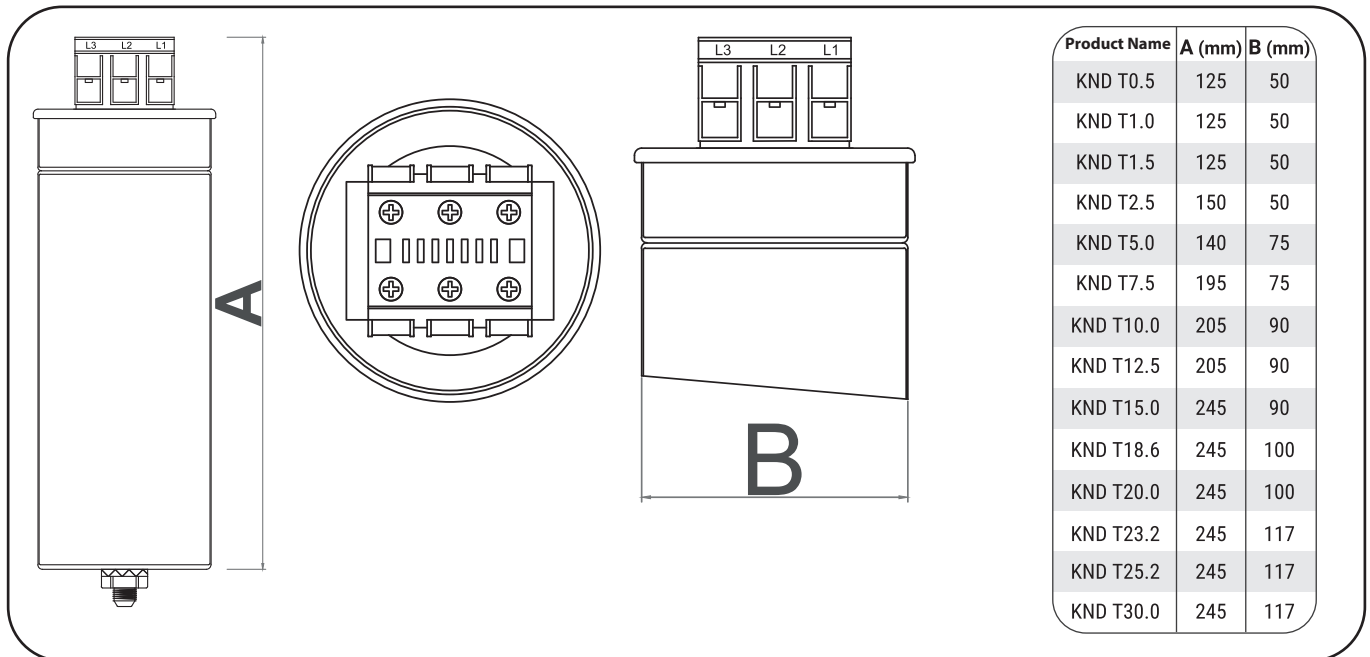
# THREE-PHASE CAPACITORS (400/440 V)



## TECHNICAL FEATURES

Product Code	Product Name	Product Description	Current (A) (for 400 V)	Power kVAr		Weight (Kg)
				400 (V)	440 (V)	
GA7201	KND T0.5	0.5/0.61 kVAr 400V/440V CONDENSATOR	0.72	0.5	0.61	0,60
GA7202	KND T0.5	1.0/1.21 kVAr 400V/440V CONDENSATOR	1.44	1.0	1.21	0,60
GA7203	KND T1.5	1.5/1.82 kVAr 400V/440V CONDENSATOR	2.16	1.5	1.82	0,60
GA7204	KND T2.5	2.5/3.03 kVAr 400V/440V CONDENSATOR	3.60	2.5	3.03	0,70
GA7205	KND T5.0	5.0/6.05 kVAr 400V/440V CONDENSATOR	7.21	5.0	6.05	1,10
GA7206	KND T7.5	7.5/9.08 kVAr 400V/440V CONDENSATOR	10.82	7.5	9.08	1,10
GA7207	KND T10.0	10.0/12.1 kVAr 400V/440V CONDENSATOR	14.43	10.0	12.10	1,70
GA7208	KND T12.5	12.5/15.12 kVAr 400V/440V CONDENSATOR	18.04	12.5	15.12	1,70
GA7209	KND T15.0	15.0/18.15 kVAr 400V/440V CONDENSATOR	21.65	15.0	18.15	1,85
GA7210	KND T18.6	18.6/22.5 kVAr 400V/440V CONDENSATOR	26.87	18.6	22.50	2,45
GA7211	KND T20.0	20.0/24.2 kVAr 400V/440V CONDENSATOR	28.86	20.0	24.20	2,90
GA7212	KND T23.2	23.2/28.1 kVAr 400V/440V CONDENSATOR	33.50	23.2	28.10	3,15
GA7213	KND T25.0	25.0/30.25 kVAr 400V/440V CONDENSATOR	36.08	25.0	30.25	3,30
GA7214	KND T30.0	30.0/36.3 kVAr 400V/440V CONDENSATOR	43.30	30.0	36.30	3,45

## TECHNICAL DRAWINGS



# THREE-PHASE CAPACITORS (525 V)



## TECHNICAL FEATURES

Product Code	Product Name	Product Description	Current (A) (for 525 V)	Power kVAr		Weight (Kg)
				480 (V)	525 (V)	
GA7301	KND B5.0	5.0 kVAr 525V CONDENSATOR	5.50	4.16	5.0	1,25
GA7302	KND B7.5	7.5 kVAr 525V CONDENSATOR	8.25	6.25	7.5	1,25
GA7303	KND B10.0	10.0 kVAr 525V CONDENSATOR	11.00	8.3	10.0	1,75
GA7304	KND B12.5	12.5 kVAr 525V CONDENSATOR	13.75	10.4	12.5	1,75
GA7305	KND B15.0	15.0 kVAr 525V CONDENSATOR	16.50	12.5	15.0	1,90
GA7306	KND B20.0	20.0 kVAr 525V CONDENSATOR	21.99	16.7	20.0	2,85
GA7307	KND B25.0	25.0 kVAr 525V CONDENSATOR	27.49	20.9	25.0	2,95
GA7308	KND B30.0	30.0 kVAr 525V CONDENSATOR	32.99	25.0	30.0	2,95
GA7309	KND B40.0	40.0 kVAr 525V CONDENSATOR	44.00	33.3	40.0	3,85

## TECHNICAL DRAWINGS

Product Name	A (mm)	B (mm)
KND B5.0	140	75
KND B7.5	195	75
KND B10.0	205	85
KND B12.5	205	90
KND B15.0	245	90
KND B20.0	245	100
KND B25.0	245	117
KND B30.0	245	117
KND B40.0	243	136

## CONNECTION DIAGRAM

