

# CAPACITOR DUTY CONTACTORS

KC12, KC16, KC20, KC25, KC33, KC40, KC50, KC60, KC75, KC100



**SWITCHING OF CAPACITORS IN SYSTEMS FOR COMPENSATION OF REACTIVE ENERGY (CLASSIC AUTOMATION DEVICES).**

## FEATURES

- CONFORMS TO **UTILIZATION CATEGORY AC-6B**
- **STANDARD CONTROL VOLTAGES:**  
24 V 50/60 HZ, 220 V 50/60 HZ, 230 V 50/60 HZ, 415 V 50/60 HZ
- **SAVES COSTS** OF EXPENSIVE REPLACEMENT
- **LONG ELECTRICAL LIFE**
- **REDUCES WATT LOSSES** DURING "ON" CONDITION, SAVES ENERGY
- **HIGH SAFETY**
- NO RISK OF DANGEROUS VOLTAGE
- **SWITCHING OF CAPACITOR BANK** IN PARALLEL WITHOUT DE-RATING
- LESS MAINTENANCE AND DOWNTIME
- **APPROVALS:** UL, CSA (UL not available for KC75 - KC100)

## TECHNICAL DATA

TYPE	RATING AT 50/60 Hz (kVar)	CURRENT CARRYING CAPACITY							POWER DISSIPATION PER POLE	MECHANICAL LIFE		ELECTRICAL LIFE
		220 - 240 V		400 440 V		kVar / CURRENT RATING AS PER UL (kVar/A)				50 OR 60 Hz	50 / 60 Hz	
	≤ 55°C *	kVar	CURRENT AT 220 V (A)	kVar	CURRENT AT 400 V (A)	240 V	480 V	600 V	W	MILLION		OPERATIONS
KC12-11	12.5	6.7	17.6	12.5	18.1	6 / 15	12.5 / 15	15 / 15	0.36	16	15	200.000
KC16-11	16.7	8.5	22.3	16.7	24.1	8 / 15	16.7 / 20	20 / 20	0.8	16	15	200.000
KC20-11	20	10	26.2	20	28.9	10 / 24	20 / 24	25 / 24	1.25	16	12	100.000
KC25-11	25	15	39.4	25	36.1	12.5 / 30	25 / 30	30 / 30	2	16	12	100.000
KC33-12	33.3	20	52.5	33.3	48.1	16.5 / 40	33.3 / 40	40 / 40	4.2	16	6	100.000
KC40-12	40	25	65.6	40	57.7	20 / 48	40 / 48	50 / 48	4.2	16	6	100.000
KC50-12	50	27	70.9	50	72.3	25 / 60	50 / 60	60 / 60	4.8	16	6	100.000
KC60-12	60	40	104.9	60	86.6	30 / 72	60 / 72	80 / 77	5.1	10	4	100.000
KC75-12	75	45	118	75	108.3	UL certification not available			7.2	8 (50 Hz only)	4	100.000
KC100-12	100	60	157.5	100	143.3				13.5		NA	100.000

**NOTES:**

KC12 TO KC25; CLIP- ON MOUNTING ON 35 mm WIDE RAIL  
KC33 TO KC100; CLIP-ON MOUNTING ON 75 mm M WIDE RAIL

\* AVERAGE AMBIENT TEMPERATURE SHOULD NOT EXCEED 45 °C WITHIN THE 24-HOUR PERIOD IN ACC. WITH IEC 60 070 AND IEC 60 831

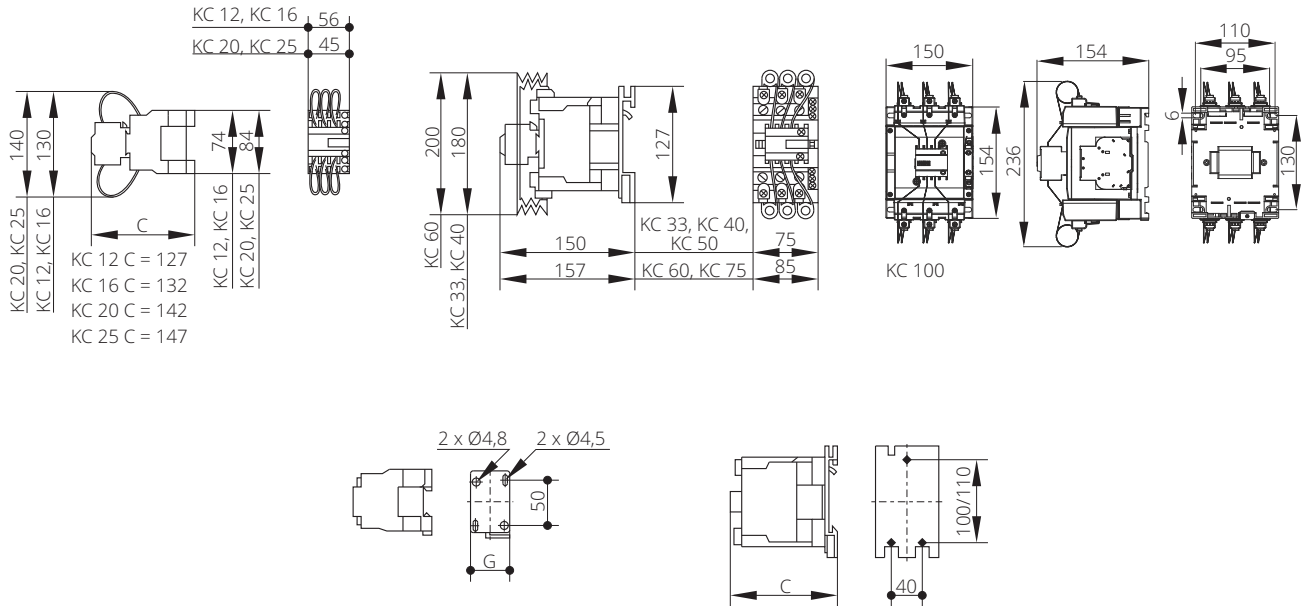
## TECHNICAL DATA

TYPE	RATING AT 50/60 Hz (kvar)	UPPER BLOCK		Wire details						COIL CONSUMPTION		
		TIME LAG BETWEEN MAKE CONTACTS OF AUX. BLOCK AND CONTACTOR	HOLDING TIME OF MAIN CONTACTS OF AUX. BLOCK	CROSS-SECTIONAL AREA	LENGHT	MATERIAL	LUGS - AT CONTACTOR END	LUGS AT AUX. BLOCK END	TIGHTENING TORQUE	50 Hz	60 Hz	50 / 60 Hz
	ms	ms	mm <sup>2</sup>	mm				Nm	VA	VA	VA	
KC12-11	12.5	2 - 10	5 - 12	0.292	174	PTFE COATED RESISTANCE WIRE	RING TYPE LUG	PIN TYPE LUG	1.2	7	7.5	8
KC16-11	16.7	2 - 10	5 - 12	0.292	174				1.7	7	7.5	8
KC20-11	20	2 - 10	5 - 12	0.292	174				1.85	7.5	7.5	8.5
KC25-11	25	2 - 10	5 - 12	0.292	174				2.5	7.5	7.5	8.5
KC33-12	33.3	2 - 10	5 - 12	0.196	245				5	20	22	26
KC40-12	40	2 - 10	5 - 12	0.196	245				5	20	22	26
KC50-12	50	2 - 10	5 - 12	0.196	245				5	20	22	26
KC60-12	60	2 - 10	5 - 12	0.196	245				9	20	22	26
KC75-12	75	2 - 10	5 - 12	0.196	245				9	20	22	26
KC100-12	100	2 - 10	5 - 12	0.196	245				Pin type lug with connector		11.3	28

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## DIMENSIONS



	(in mm <sup>2</sup> ) Min ... Max				mm	Nm	Nm
<b>KC 12</b>	1...4	1...2.5	1...4	1...4			1.2
<b>KC 16</b>	1...6	1...4	1.5...6	1.5...6			1.7
<b>KC 20</b>	1...6	1...4	1.5...10	1.5...6			1.85
<b>KC 25</b>	1...10	1.5...6	1.5...10	2.5...10			2.5
<b>KC 33</b>	2.5...25	2.5...10	2.5...25	2.5...16		5	
<b>KC 40</b>	2.5...25	2.5...10	2.5...25	2.5...16		5	
<b>KC 50</b>	2.5...25	2.5...10	2.5...25	2.5...16		5	
<b>KC 60</b>	4...50	4...16	4...50	4...25	10	9	
<b>KC 75</b>	4...50	4...16	4...50	4...25	10	9	
<b>KC 100</b>	10...95	10...95	10...95	10...95	13	11.3	

- PHILIPS N°2
- Ø6...Ø8
- AWG 16 = 1,31 mm<sup>2</sup>
- AWG 14 = 2,08 mm<sup>2</sup>
- AWG 12 = 3,31 mm<sup>2</sup>
- AWG 10 = 5,26 mm<sup>2</sup>
- AWG 8 = 8,37 mm<sup>2</sup>
- AWG 5 = 13,3 mm<sup>2</sup>
- AWG 4 = 21,15 mm<sup>2</sup>
- AWG 3 = 26,31 mm<sup>2</sup>
- AWG 2 = 33,62 mm<sup>2</sup>
- AWG 1 = 42,41 mm<sup>2</sup>
- AWG 1/0 = 53,49 mm<sup>2</sup>

## ORDERING DATA

THE TYPE DESIGNATION AND CONTROL VOLTAGE ARE STATED WHEN ORDERING THE CONTACTORS.

