

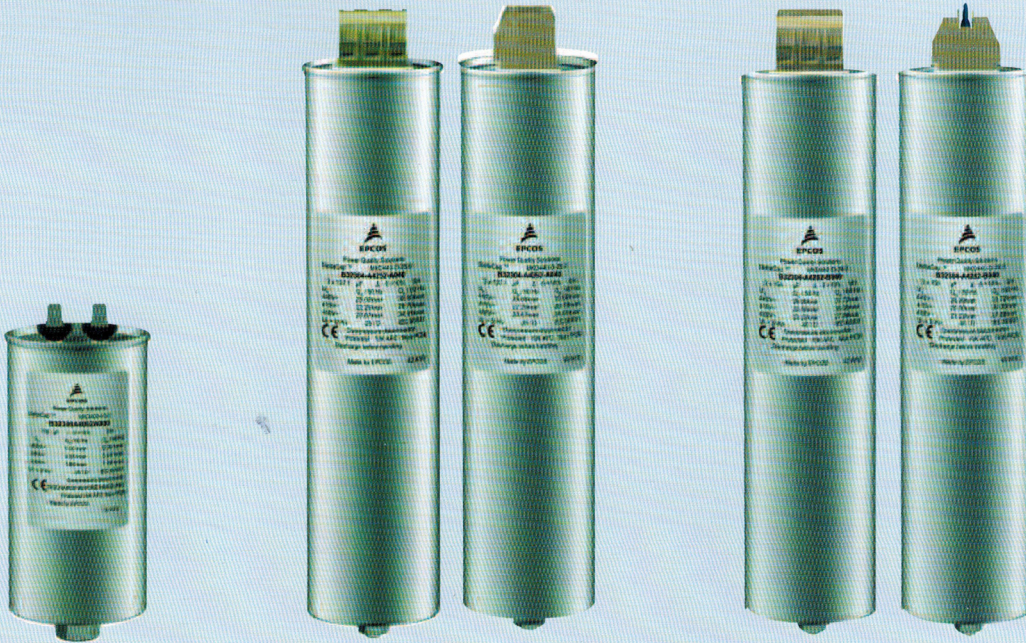
DeltaCap MKD Capacitors

Technical data and limit values		
Standards IEC 60831-1+2, IS: 13340/41		
Overvoltage	V_{max}	$V_R + 10\%$ (up to 12 h daily) / $V_R + 15\%$ (up to 30 min daily) $V_R + 20\%$ (up to 5 min daily) / $V_R + 30\%$ (up to 1 min daily)
Overcurrent	I_{max}	up to $1.5 \cdot I_R$ (including combined effects of harmonics over voltages and capacitance)
Inrush current	I_s	up to $200 \cdot I_R$
Losses:		
- Dielectric		< 0.2 W/kvar
- Total*		< 0.45 W/kvar
Rated frequency	f	50/60 Hz
Capacitance tolerance		-5% / + 10%
Test voltage, terminal / terminal	V_{TT}	$2.15 \cdot V_R$, AC 2 s
Test voltage, terminal / case	V_{TC}	3000 V AC, 10 s
Mean life expectancy	$t_{LD(Co)}$	up to 100 000 h at temperature class -40/D up to 135 000 h at temperature class -40/C
Ambient temperature		-40/D; max. temperature 55 °C; max. mean 24 h = 45 °C; max. mean 1 year = 35 °C; lowest temperature = -40 °C -40/C; max. temperature 50 °C max. mean 24 h = 40 °C; max. mean 1 year = 30 °C lowest temperature = -40 °C; Tmax Hospost +85 °C
Cooling		natural or forced
Humidity	H_{rel}	max. 95%
Altitude		max. 4000 m above sea level
Mounting position		upright
Mounting and grounding		threaded M12 (10 Nm) for case size diameter > 50 mm
Safety		self-healing technology, overpressure disconnecter, max. allowed fault current 10,000 A in accordance with UL 810 standard
Discharge resistor		discharge module included in delivery, integrated in terminal for B32304 series
Case		extruded aluminum can
Enclosure		IP20 for B32304
Dielectric		polypropylene film
Impregnation		biodegradable soft resin (non PCB)
Terminals		screw terminal for B32304 series, max. 25 mm ² cable cross-section; fast-on terminals for B332300 and B32303 series, max current : 50A
Number of switching operations		I_{max} . 5000 switchings per year according to IEC 60831-1+2

*without discharge resistors

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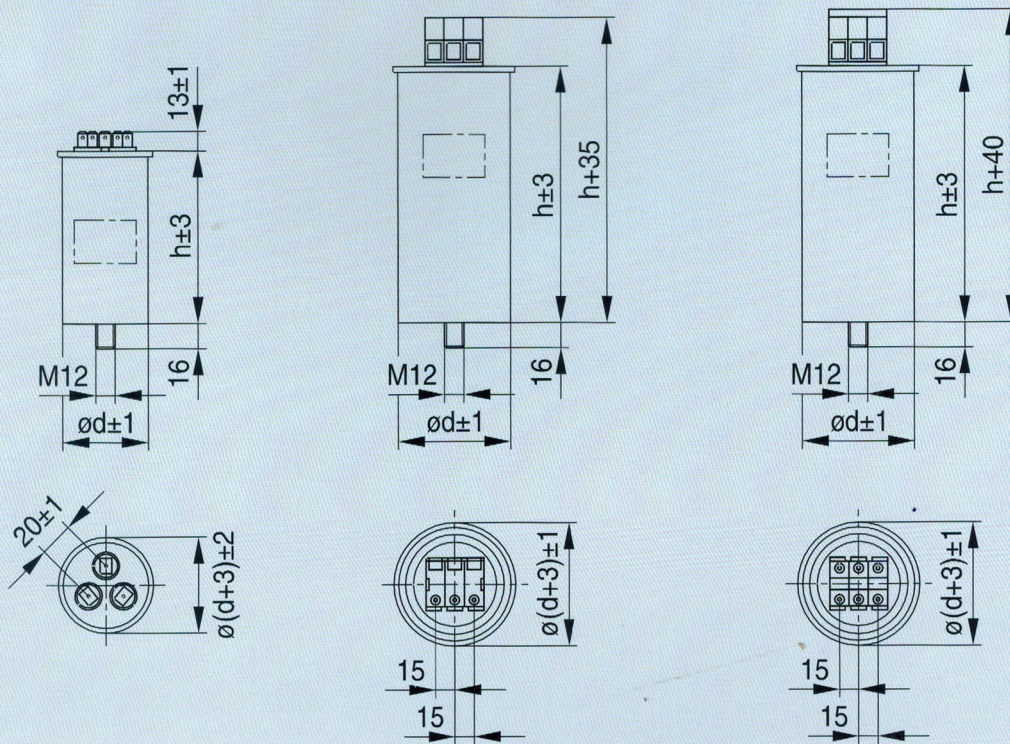
Terminal designs / dimensional drawings



B32300 / B32303 series

B32304****A*** series

B32304****B*** series



KLK1857-M

DeltaCap MKD Capacitors

Three-phase capacitors

Type	50 Hz		60 Hz		C _R μF	d x h mm	Weight kg	Ordering code	Packing unit pcs
	Output kvar	I _R A	Output kvar	I _R A					
Rated voltage 230 V AC, 50/60 Hz, delta connection									
MKD230-D-5.0	5.0	12.6	6.0	15.1	3 · 100	75 x 200	1.1	B32304A2052#030*	6
MKD230-D-10.0	10.0	25.1	12.0	30.1	3 · 201	85 x 275	1.7	B32304A2102#030*	4
MKD230-D-15.0	15.0	37.7	18.0	45.2	3 · 301	85 x 350	2.2	B32304A2152#030*	4
Rated voltage 400 V AC, 50/60 Hz, delta connection									
MKD400-D-5.0	5.0	7.2	6.0	8.6	3 · 33	63.5 x 148	0.6	B32303A4052A000	12
MKD400-D-10.0	10.0	14.4	12.0	17.3	3 · 66	75 x 200	1.1	B32304A4102#000*	6
MKD400-D-15.0	15.0	21.7	18.0	26.0	3 · 100	75 x 275	1.4	B32304A4152#000*	6
MKD400-D-20.0	20.0	28.9	24.0	34.7	3 · 133	96 x 275	1.8	B32304A4202#000*	4
MKD400-D-25.0	25.0	36.1	30.0	43.3	3 · 166	85 x 350	2.2	B32304A4252#000*	4
MKD400-D-30.0	30.0	43.4	--	--	3 · 200	96 x 275	2.7	B32304A4302#000*	4
Rated voltage 415 V AC, 50/60 Hz, delta connection									
MKD415-D-5.0	5.0	7.0	6.0	8.4	3 · 31	63.5 x 148	0.8	B32303A4052A010	12
MKD415-D-10.0	10.0	13.9	12.0	16.7	3 · 62	75 x 275	1.4	B32304A4102#010*	6
MKD415-D-12.5	12.5	17.4	15.0	20.9	3 · 77	75 x 275	1.4	B32304A4122#510*	6
MKD415-D-15.0	15.0	20.9	18.0	25.1	3 · 93	85 x 275	1.7	B32304A4152#010*	4
MKD415-D-20.0	20.0	27.8	24.0	33.4	3 · 123	85 x 350	2.2	B32304A4202#010*	4
MKD415-D-25.0	25.0	34.8	30.0	41.8	3 · 154	85 x 350	2.2	B32304A4252#010*	4
MKD415-D-30.0	30.0	42.0	--	--	3 · 185	96 x 350	2.7	B32304A4302#010*	4

*) Available either as B32304A****A*** series (3-terminal design, integrated resistor) or B32304A****B*** series (6-terminal design, pluggable ceramic resistor). Please replace # with the right character before ordering.

Three-phase capacitors

Type	50 Hz		60 Hz		C _R μF	d x h mm	Weight kg	Ordering code	Packing unit pcs
	Output kvar	I _R A	Output kvar	I _R A					
Rated voltage 440 V AC, 50/60 Hz, delta connection									
MKD440-D-5.0	5.0	6.6	6.0	7.9	3 · 27	63.5 x 148	0.8	B32303A4052A040	12
MKD440-D-10.0	10.0	13.1	12.0	15.7	3 · 55	75 x 275	1.4	B32304A4102#040*	6
MKD440-D-12.5	12.5	16.4	15.0	19.7	3 · 69	75 x 275	1.4	B32304A4151#040*	6
MKD440-D-15.0	15.0	19.7	18.0	23.6	3 · 82	85 x 275	1.7	B32304A4152#040*	4
MKD440-D-20.8	20.8	27.3	25.0	32.8	3 · 114	85 x 275	2.3	B32304A4251V040*	4
MKD440-D-25.0	25.0	32.8	30.0	39.4	3 · 137	96 x 275	2.3	B32304A4252V040*	4
MKD440-D-28.0	28.0	36.7	33.6	44.0	3 · 154	85 x 350	2.2	B32304A4282#040*	4
MKD440-D-30.0	30.0	39.4	36.0	47.3	3 · 165	116 x 230	3.3	B32304A4302V040*	4
MKD440-D-33.7	33.7	44.3	--	--	3 · 185	96 x 350	2.7	B32304A4332#040*	4
Rated voltage 480 V AC, 50/60 Hz, delta connection									
MKD480-D-12.5	12.5	15.0	15.0	18.0	3 · 58	75 x 275	1.4	B32304A4151#080*	6
MKD480-D-15.0	15.0	18.0	18.0	21.6	3 · 69	85 x 275	1.7	B32304A4152#080*	6
MKD480-D-20.8	20.8	25.0	25.0	30.0	3 · 96	85 x 350	2.2	B32304A4202#080*	4
MKD480-D-25.0	25.0	30.1	30.0	36.1	3 · 115	85 x 350	2.2	B32304A4252#080*	4
MKD480-D-30.0	30.0	36.0	36.0	43.0	3 · 138	96 x 350	2.7	B32304A4302#080*	4
MKD480-D-33.0	33	39.7	--	--	3 · 152	96 x 350	2.7	B32304A4332#080*	4
Rated voltage 525 V AC, 50/60 Hz, delta connection									
MKD525-D-12.5	12.5	13.7	15.0	16.4	3 · 48	75 x 275	1.4	B32304A5151#020*	6
MKD525-D-20.8	20.8	22.9	25.0	27.5	3 · 80	96 x 275	2.3	B32304A5202V020*	4
MKD525-D-25.0	25.0	27.5	30.0	33.0	3 · 96	96 x 350	3.3	B32304A5252V020*	4
MKD525-D-30.0	30.0	33.0	36.0	39.0	3 · 115	96 x 350	2.7	B32304A5302#020*	4

*) Available either as B32304A****A*** series (3-terminal design, integrated resistor) or B32304A****B*** series (6-terminal design, pluggable ceramic resistor). Please replace # with the right character before ordering.