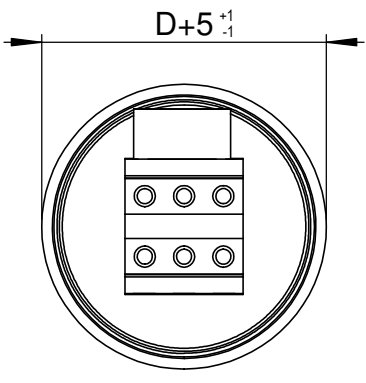
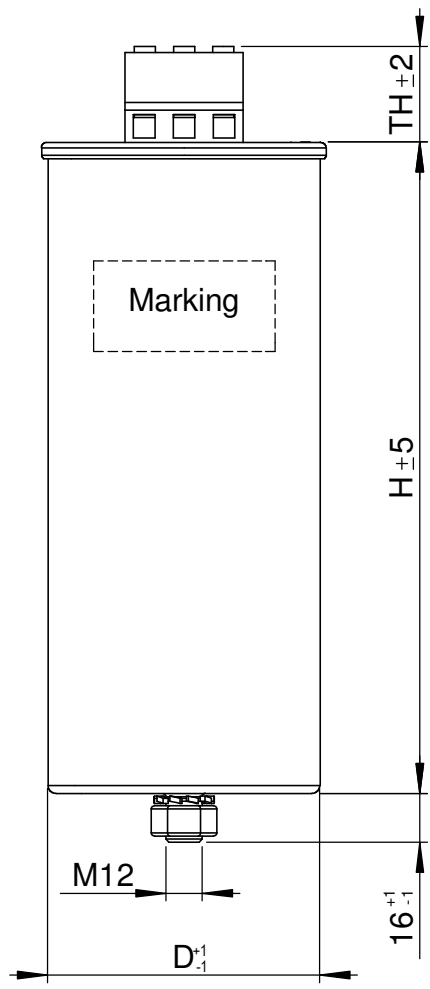


Unless otherwise specified apply the following tolerances

to 6	±0,1
above to 6 to 30	±0,2
above to 30 to 100	±0,3
above to 100 to 300	±0,5
above to 300 to 1000	±0,8
above to 1000 to 2000	±1,2
above to 2000 to 4000	±2
above 4000	±3

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Technical data			
Standard	IEC 60831-1/2		
Connection	Delta		
Rated reactive power (Q <sub>n</sub> )	25 kvar		
Rated voltage (U <sub>n</sub> )	525 V		
Rated frequency (f <sub>n</sub> )	50 Hz		
Rated capacitance	3 × 96,2 μF		
Capacitance tolerance	-5/10 %		
Rated current	3 × 27,5 A		
Dielectric losses	≤ 0.2 W/kVAr		
Total losses	≤ 0.5 W/kVAr		
Series resistance (R <sub>s</sub> )	3 × 2,6 mΩ		
Temperature category	-40/D		
Maximum temperature	55 °C		
Storage temperature	-40 / +85 °C		
Max. Hot spot temperature (T <sub>hs</sub> )	+85 °C		
Thermal resistance (R <sub>th</sub> )	2,1 °C/W		
Max. Humidity	95 %		
Cooling	Forced ventilation or naturally air cooled		
Max. overvoltage	1.1 × U <sub>n</sub> (8 h/day)		
	1.15 × U <sub>n</sub> (30 min/day)		
	1.2 × U <sub>n</sub> (5 min - 200 times per life time)		
Max. overcurrent	1.3 × U <sub>n</sub> (1 min - 200 times per life time)		
	1,5 × I <sub>n</sub> (Normal duty)		
Inrush current	200 × I <sub>n</sub>		
Max. Current and Power losses versus Ambient temperature at T <sub>hs</sub> = 85°C	T <sub>amb</sub> [°C]	P <sub>max</sub> [W]	I <sub>max</sub> [A]
	40	21,4	41,0
	50	16,7	38,7
	60	11,9	32,7
	70	7,1	25,4
Expected life time	> 120.000 h (Normal Duty)		
	to 75V < 3min (3 × 390 kΩ, Δ)		
Discharge resistor			
Altitude	Up to 4000 m		
Insulation level	4/- kV		
Routine Tests			
Terminal to terminal	2.15 × U <sub>n</sub> , 2 s		
Terminal to case	4000 V, 2 s		
Sealing test	N/A		
Mechanical parameters			
Diameter (D)	90 mm		
Height (H)	285 mm		
Terminals per phase / Terminal height (TH) / Max. torque / Max current	2 × 25 mm <sup>2</sup> / 35 mm / 3 Nm / 60 A		
Mounting and grounding / Max. torque	Threaded M12 bolt / 10 Nm		
Mounting position	Vertical with terminal pointing upwards or horizontal		
Protection	IP20		
Clearance distance	> 16 mm		
Creepage distance	> 16 mm		
Safety device	Overpressure disconnecter (all phases)		
Material parameters			
Dielectric	Self healing metallized polypropylene film		
Filling	Dry (filled with non PCB polyurethane resin)		
Case	Aluminium		

material		protection		standard		issue				
changes	1	2	3	4	5	6	7	8	9	10
request.										
date										
signature										
	date	signature	name							
design.	18.5.20	D. Peganc	<h1>Capacitor KNK3053</h1> <h2>Normal Duty</h2>							
approved	18.5.20	B. Štravs								
stand.										

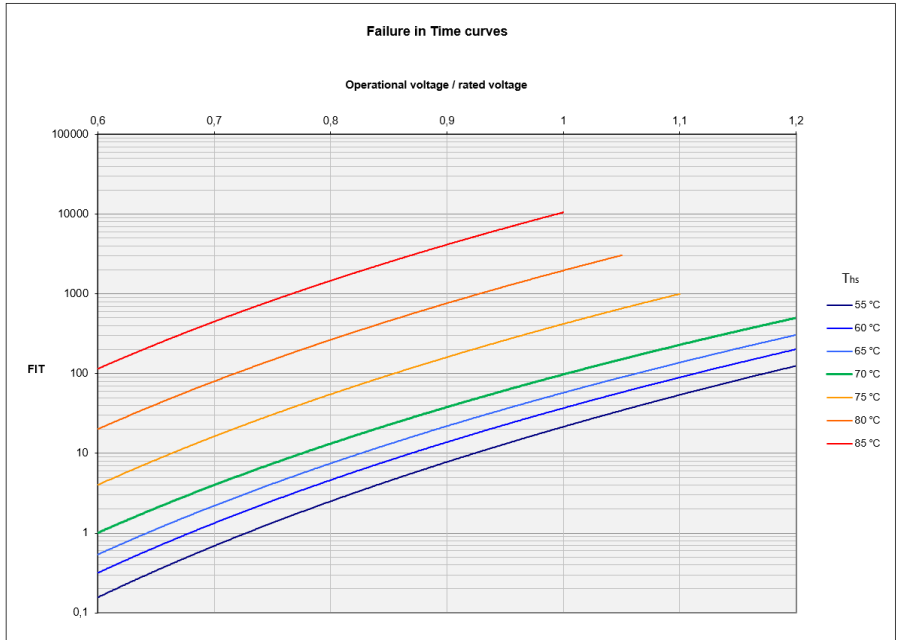
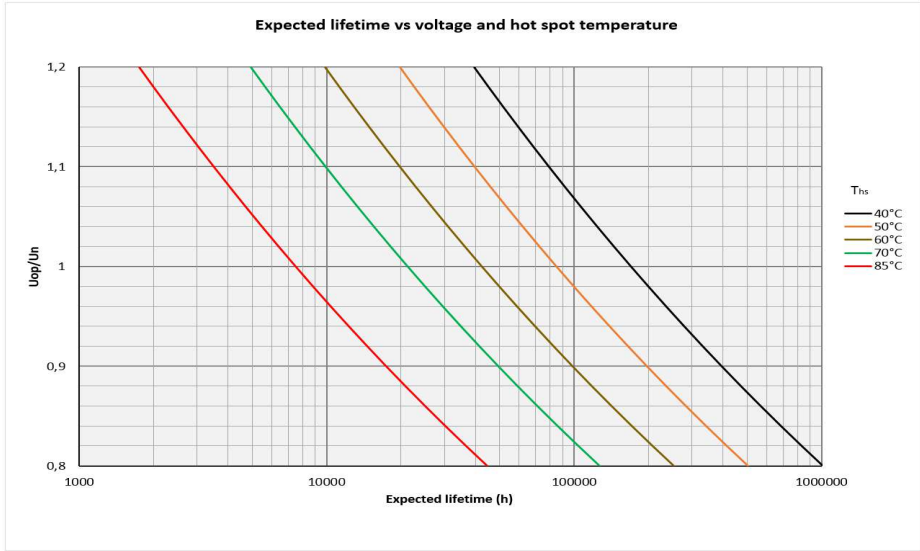
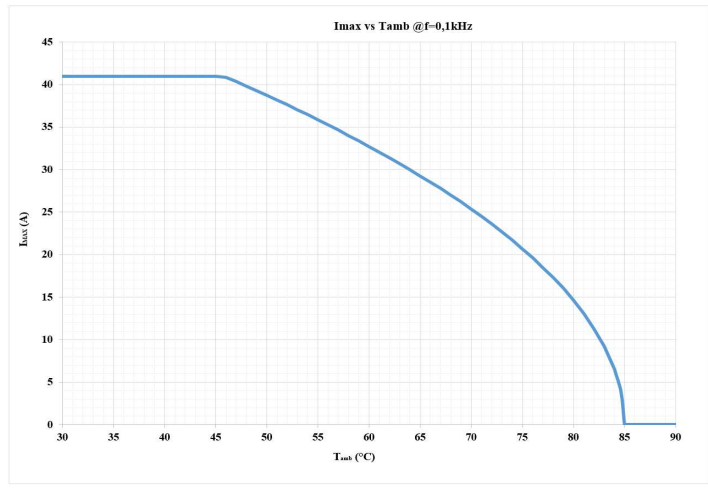


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C0\_RAK301\_0201

Unless otherwise specified apply the following tolerances

to 6	±0,1
above to 6 to 30	±0,2
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above 4000	± 3



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material		protection		standard		issue				
changes request.	1	2	3	4	5	6	7	8	9	10
date										
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