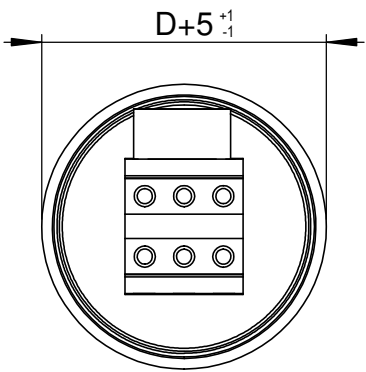
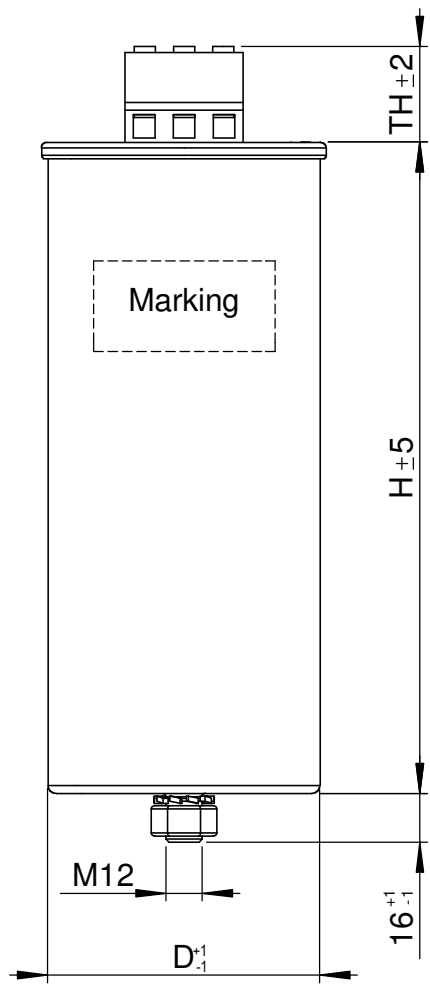


Unless otherwise specified apply the following tolerances

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



Technical data			
Standard	IEC 60831-1/2		
Connection	Delta		
Rated reactive power (Q _n)	40 kvar		
Rated voltage (U _n)	525 V		
Rated frequency (f _n)	50 Hz		
Rated capacitance	3 × 154 µF		
Capacitance tolerance	-5/10 %		
Rated current	3 × 44 A		
Dielectric losses	≤ 0.2 W/kVAr		
Total losses	≤ 0.5 W/kVAr		
Series resistance (R _s)	3 × 1,2 mΩ		
Temperature category	-40/D		
Maximum temperature	55 °C		
Storage temperature	-40 / +85 °C		
Max. Hot spot temperature (T _{hs})	+85 °C		
Thermal resistance (R _{th})	1,6 °C/W		
Max. Humidity	95 %		
Cooling	Forced ventilation or naturally air cooled		
Max. overvoltage	1.1 × U _n (8 h/day)		
	1.15 × U _n (30 min/day)		
	1.2 × U _n (5 min - 200 times per life time)		
	1.3 × U _n (1 min - 200 times per life time)		
Max. overcurrent	1,5 × I _n (Normal duty)		
Inrush current	200 × I _n		
Max. Current and Power losses versus Ambient temperature at T _{hs} = 85°C	T _{amb} [°C]	P _{max} [W]	I _{max} [A]
	40	28,1	66,0
	50	21,9	62,1
	60	15,6	52,5
	70	9,4	40,7
80	3,1	23,5	
Expected life time	> 120.000 h (Normal Duty)		
Discharge resistor	to 75V < 3min (3 × 390 kΩ, Δ)		
Altitude	Up to 4000 m		
Insulation level	4/- kV		
Routine Tests			
Terminal to terminal	2.15 × U _n , 2 s		
Terminal to case	4000 V, 2 s		
Sealing test	N/A		
Mechanical parameters			
Diameter (D)	116 mm		
Height (H)	285 mm		
Terminals per phase / Terminal height (TH) / Max. torque / Max current	2 × 25 mm ² / 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 disconnector (all phases)		
Material parameters			
Dielectric	Self healing metallized polypropylene film		
Filling	Dry (filled with non PCB polyurethane resin)		
Case	Aluminium		

All transfer to third person or missusage for unauthorized purposes is strictly forbidden by Author's Rights

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

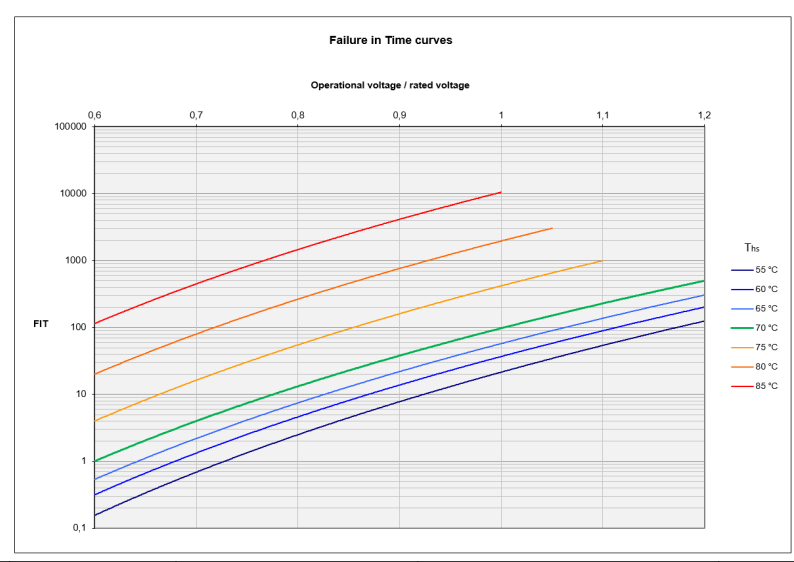
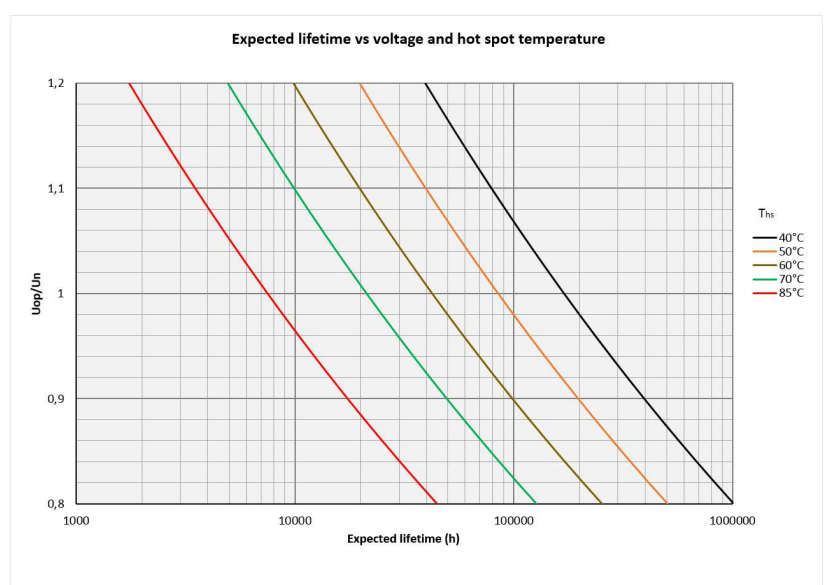
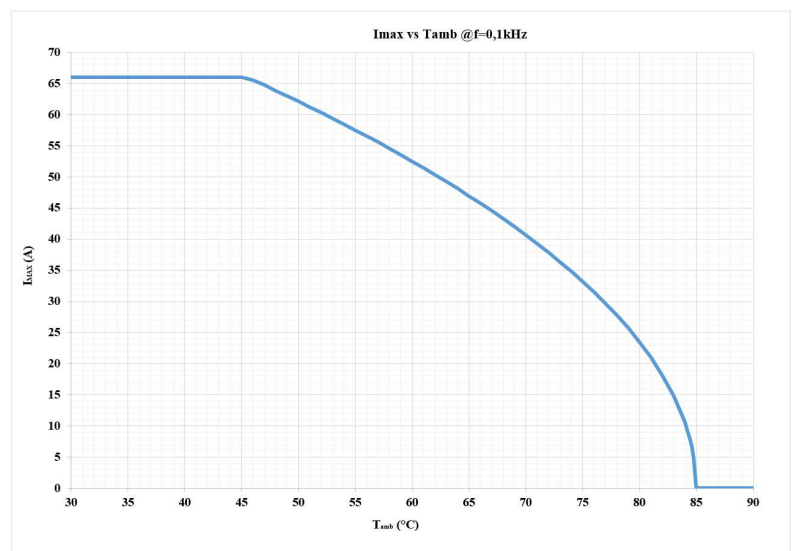


identification No.	
scale	page
	1

C0_RAK301_0201

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



C0_RAK301_0201 All transfer to third person or missusage for unauthorized purposes is strictly forbidden by Author's Rights

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



design.	18.5.20	D. Peganc	name
approved	18.5.20	B. Štravs	
stand.			

**Capacitor KNK3053
Normal Duty**

Ident. No.
scale
page
2