

MKP-High-Current Capacitors, Dry, Selfhealing, Segmented

PART NO.	GMKPg 1000-42uF
ART. NO.	33747
NOMINAL RATINGS	
Capacitance/Tolerance	Cn 42uF ± 5%
Rated voltage	Un 1000VDC 500Vrms

OVERVOLTAGES ACCORDING IEC 61071-1	
1.1 x Un	U1 1100V (30% of the working time)
1.15 x Un	U2 1150V (30min/day)
1.2 x Un	U3 1200V (5min/day)
1.3 x Un	U4 1300V (1min/day)
Surge voltage	Us 1500V (100ms/day)

Voltage rate of raise	du/dt 200V/μs
Rated current	In 100A
Peak current periodical	I 8400A
Peak current non periodical	Is 20kA
Self inductance	Ls < 16nH
Series resistance	RESR < 0.6mΩ
Loss factor 50Hz	tan < 5 x 10 ⁻⁴
Loss factor diel. 50Hz	tan < 2 x 10 ⁻⁴
Thermal resistance	3.3k/W

ROUTINE TESTS	
Test voltage terminal/terminal	UT/T 1500V, DC, 10s
Test voltage terminal/casing	UT/C 10000V, AC, 60s

Measurement of capacitance
Measurement of loss factor

OPERATING TEMPERATURE	
Minimum ambient temperature	Tmin - 40°C
Maximum ambient temperature	Tmax + 70°C

STORAGE TEMPERATURE	
Minimum temperature	Tmin - 50°C
Maximum temperature	Tmax + 85°C

TECHNOLOGY	
Dielectric	Polypropylene, self-healing, segmented
Filling material	resin, polyurethane dry

BUSHING	
Flash over distance	28mm
Creepage distance	40mm
Terminal	M 6
Max. torque	3.0Nm

DESIGN DATA	
Dimensions	dia. 84.4 * 90mm
Drawing	20-B-078
Weight	0.6kg
Casing material	plastic according to UL-94-V0 aluminum
Mounting position	every position

LIFE EXPECTANCY > 100000h

FAILURE RATE 300 FIT

RECOMMENDATION IEC 61071-1
IEC 60077

DIMENSIONS

