


DATA CHARTS

rated voltages	230 ... 800 V, 50 Hz
permitted overvoltages and test voltages	in accordance with IEC EN 60831-1/2 (see data charts for details)
tolerance of capacitance	- 5 ... + 10 %, ± 5 % on request
maximum permissible current	at least 1.3 I _N , see data charts for details
max. inrush current	MKPg 275, MKP(D) 276 300 x I _N MKP-UHD 280 400 x I _N
dissipation losses (capacitor)	approx. 0.25 ... 0.40 W/kvar
internal connection	delta
safety device	BAM™ (overpressure break action mechanism)
dielectric material	low-loss polypropylene, dry
impregnant (filling material)	MKPg 275 inert insulation gas (N ₂) MKP(D) 276, MKP-UHD 280 resin, based on vegetable oil
mounting position	MKPg 275 any position MKP(D) 276, MKP-UHD 280 vertical position recommended
max. relative humidity	95 % (climatic class C; MKP(D) 276 only: climatic class F)
operating temperatures	see data charts for ambient temperature class
storage temperature	-50 ... +85°C
max. altitude abv.s.l.	4000 m a.s.l.
statistical life expectancy	100,000 ... 200,000 h depending on type range and operating temperatures (see charts for details)
applied standards	IEC EN 60831, VDE 0560-46/47 UL Standard No. 810, CSA C22.2 No. 190, GOST 1282-88, IS 13340/13341
approval marks	 all capacitors in this catalogue: UL/C-UL recognized component, 10,000AFC internally protected

General
Technical
Data

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All capacitors listed in this catalogue comply with the relevant regulations and guidelines of the European Union: 2014/35/EU (Low-Voltage Directive).

This is proven by the technical documentation and compliance with the following standard: IEC/DIN EN 60831-1/2:2014





MKPg™

275.* 3PH GAS-FILLED
400 ... 440 V 50Hz**

for latest edition and updates
check www.powercapacitors.info



Three-phase power capacitors, dry self-healing dielectric, gas-filled (N₂)
For detuned and non-detuned PFC equipment in mains with standard operating conditions

U_N	Θ_{ambient}	statistical life
400...415V	-50/D	>130,000 h
440V	-50/D	>100,000 h

Permitted overvoltages	
8h/d	485V
30min/d	510V
5min (200×)	530V
1min (200×)	575V
max. peak voltage	1350V ac

CAPA**GRIP**™ K and II (L4) including discharge resistors. For L and M see resistor modules on pages 48f.

Q _c 440V (kvar)	Q _c 415V (kvar)	Q _c 400V (kvar)	C _N (μF)	I _{max} (A)	D ₁ × L ₁ (mm)	m (kg)	CAPA GRIP	order no.	packg.lot / box
5	—	—	3 × 28	3 × 12	60 × 164	0.4	K	275.525-402800	10/FB8
6	5.4	5	3 × 33	3 × 16	65 × 164	0.5	K	275.535-403300	10/FB8
8.4	7.5	—	3 × 46	3 × 20	75 × 164	0.7	K	275.545-404600	5/FB8
9.3	8.3	7.5	3 × 51	3 × 19	65 × 230	0.8	K	275.536-405100	10/FB9
10	—	8.3	3 × 57	3 × 25	65 × 245	1	K	275.538-405700	10/FB9
11.3	10	—	3 × 62	3 × 23	65 × 245	1	K	275.538-406200	10/FB9
12.5	—	10	3 × 68	3 × 27	75 × 230	1	K	275.546-406800	5/FB9
14.1	12.5	—	3 × 77	3 × 28	75 × 230	1	K	275.546-407700	5/FB9
15	13.3	12.5	3 × 82	3 × 31	75 × 245	1.1	K	275.548-408200	5/FB12
16.8	15	—	3 × 92	3 × 33	85 × 230	1.3	L4	275.256-409200	5/FB9
18.2	—	15	3 × 100	3 × 36	85 × 245	1.5	L4	275.258-410000	5/FB12
20	—	16.6	3 × 110	3 × 39	85 × 245	1.5	L4	275.258-411000	5/FB12
22.4	20	—	3 × 123	3 × 39	85 × 280	1.5	L4	275.259-412300	5/FB10
25	—	20	3 × 137	3 × 47	85 × 280	1.5	L4	275.259-413700	5/FB10
28.2	25	—	3 × 154	3 × 56	100 × 245	1.8	L4	275.278-415400	3/FB12
30	—	25	3 × 166	3 × 56	95 × 280	2	L4	275.269-416600	3/FB10
50	—	—	3 × 274	3 × 86	136 × 295	4.1	M	275.39B-527400	2/FB11
—	50	—	3 × 308	3 × 90	136 × 295	4.1	M	275.39B-530800	2/FB11
—	—	50	3 × 331	3 × 94	136 × 295	4.1	M	275.39B-533300	2/FB11

Other sizes and ratings are available on request. Single phase capacitors are available on request in same dimensions and design.
Mind Mounting and Operating Instructions on pages 34ff!