

LVAC Power Capacitors



FEATURES

- Self-healing technology
- Over pressure tear-off fuse
- Aluminum case
- Excellent heat dissipation
- Various design options: slim diameter or low height, screw terminal IP00 or terminal block IP20
- Two versions available: oil-filled and dry, gas filled
- UL and cUL approved

APPLICATIONS

- For applications 1-phase or 3-phase $\leq 1000 \text{ VAC}_{\text{RMS}}$
- Industrial: power factor correction (fixed and automatic central PFC), harmonic filtering, industrial converter, thermal power station, solar, wind, UPS

| QUICK REFERENCE DATA | | |
|------------------------------------|--|---|
| Series | PhMKP..., cylindrical | PhMKPg..., cylindrical |
| Description | LVAC Power Capacitors - Oil - INDOOR , IP00 - IP20 | LVAC Power Capacitors - Dry - INDOOR , IP00 - IP20 |
| Type | Capacitors, fixed, low voltage | Capacitors, fixed, low voltage |
| Technology | MKP, metallized polypropylene film | MKP, metallized polypropylene film |
| Voltage max. (V) | 1000 | 1000 |
| Capacitance min. (μF) | 3-phase D: 3 x 11.5, 3-phase Y: 3 x 83.6, 1-phase: 49.7 | 3-phase D: 3 x 11.5, 3-phase Y: 3 x 83.6 |
| Capacitance max. (μF) | 3-phase D: 3 x 335.0, 3-phase Y: 3 x 219.3, 1-phase: 332.2 | 3-phase D: 3 x 335.0, 3-phase Y: 3 x 219.3 |
| Output min. (kvar) | 2 | 2 |
| Output max. (kvar) | 37.1 | 37.1 |



CAPACITORS IN CYLINDRICAL CASING

APPLICATION

The Vishay ESTA PhMKP / PhMKPg series of power factor correction capacitors in cylindrical aluminum casing now provide higher kvar/voltage combinations for use in low-voltage systems.

The newly available 116 mm and 136 mm diameter capacitors complete the successful range of compact and slim cylindrical capacitors of 64 mm and 84.4 mm diameter design up to the lowest outputs of the triangular can design of the PhMKDg model.

The 116 mm and 136 mm start where the output of the 84 mm design ends. At the point of change, the customer has two options: the lower height profile of the 116 mm and 136 mm or the slimmer diameter of the 84.4 mm design.

The Vishay ESTA LVAC capacitors are suitable for use in both standard PFC applications and in heavy-duty applications such as wind turbines:

- automatic PFC-equipment
- individual fixed PFC (e.g. motors, transformers, lighting)
- group fixed PFC
- tuned and detuned capacitor banks
- harmonic filters (e.g. UPS, frequency drives, converter)

DESIGN

The Vishay ESTA LVAC MKP capacitors are metallized polypropylene film capacitors with self-healing properties. The current carrying metal layer of an MKP capacitor is vaporised onto one side of the polypropylene film. The front surface of tubular winding elements are joined by means of the metal spray method (schooping). Three winding elements are encapsulated in one aluminum casing and connected to form a true 3-phase capacitor. The overpressure tear-off fuse prevents the capacitor from bursting at the end of service life, or due to inadmissible electrical or thermal overloads.

The capacitor is housed in a tubular aluminum container with a aluminum lid press-rolled onto it (64 mm and 84.4 mm) or welded (116 mm and 136 mm). The current is supplied via IP00 screw-on (M5) or IP20 block type safety terminal. A threaded stud (M12) at the bottom of the container serves for both grounding and mounting.

The Vishay ESTAprop and ESTAdry capacitors will be delivered together with discharge resistors and hardware for mounting and connection.

Vishay ESTA standard capacitors of 64 mm, 84.4 mm, 116 mm and 136 mm diameter will be delivered together with a thick film discharge resistor unit and fixing material for easy mounting and connection. In 84.4 mm diameter IP00 design there is also an option for feed-through (IN-LINE) connection of the capacitors to the supply.

The entire range of Vishay ESTA LVAC products are offered in both natural oil-filled ESTAprop PhMKP and gas-filled ESTAdry PhMKPg versions.

1-/3-PHASE CAPACITOR, IP00 SCREW-TYPE TERMINALS 84.4 mm DIAMETER



1-/3-PHASE CAPACITOR, IP20 TERMINAL BLOCK 64 mm / 84.4 mm DIAMETER



3-PHASE CAPACITOR, IP20 TERMINAL BLOCK 116 mm DIAMETER



3-PHASE CAPACITOR, IP20 TERMINAL BLOCK 136 mm DIAMETER





CAPACITORS IN CYLINDRICAL CASING

| TECHNICAL DATA | |
|--|---|
| STANDARDS | IEC 60831-1 + 2, EN 60831- 1 + 2, UL 810 LATEST EDITIONS, UL / ULC - FILE E97723 |
| Overvoltages (in accordance with the above standards) | U _{cn} + 10 % (up to 8 h daily) U _{cn} + 15 % (up to 30 min daily) U _{cn} + 20 % (up to 5 min, only 200 times in the life of the capacitor) U _{cn} + 30 % (up to 1 min, only 200 times in the life of the capacitor) Please also refer to "Terms and Definitions". |
| Overcurrent (in accordance with the above standards) | 1.3 x I _n , 1.43 x I _n with 10 % overvoltages, 10 % over capacitance and harmonics included, continuous operation Please also refer to "Terms and Definitions". |
| Tolerance on capacitance | - 5 % / + 10 % in accordance with the standards ± 5 % as Vishay ESTA standard |
| Test voltage, terminal / terminal | 2.15 x U _{cn} , VAC, 2 s (routine test) |
| Test voltage, terminal / casing | 4800 VAC, 2 s (routine test) |
| Inrush current | 300 times rated current I _n |
| Losses | ≤ 0.25 W/kvar to 0.45 W/kvar (without discharge resistors) |
| Statistical life expectancy ⁽¹⁾ | > 150 000 operating h (ESTAprop) > 130 000 operating h (ESTAdry) |
| Degree of protection | IP20 clamp terminal with mounted discharge resistor unit or IP00 (terminal cover for higher protection class upon request), indoor |
| Ambient temperature category | -25 / D (max. 55 °C) ESTAprop, -40 / D (max. 55 °C) ESTAdry |
| Permitted casing temperature | Max. 65 °C (measured on top of the can) |
| Cooling | Naturally air-cooled |
| Permissible relative humidity | Maximum 95 % |
| Maximum allowed altitude | 2000 m above sea level |
| Mounting position | Vertical and horizontal |
| Mounting and grounding | Threaded M12 stud at the bottom of the container |
| Safety features | All-phase overpressure tear-off fuse, self-healing |
| Casing | Aluminum can |
| Dielectric | Polypropylene film, self-healing |
| Filling agent | Natural oil, non-PCB, biodegradable (ESTAprop) or dry / gas - filled (ESTAdry) |
| Terminals per casing Ø | Ø 64 mm IP20 M5 terminal block A (D-351), 2.0 Nm, max. 16 mm² Drawing 1 Max. current, depending on ambient conditions: 34 A (1-phase) / 25 A (3-phase) |
| | Ø 84 mm IP00 M5 screw terminals (D-203), 2.0 Nm, max. 25 mm² Drawing 2, feed through Max. current, depending on ambient conditions: 57 A (1-phase) / 52 A (3-phase) IP20 M5 terminal block A (D-351), 2.0 Nm, max. 16 mm² Drawing 3 Max. current, depending on ambient conditions: 57 A (1-phase) / 52 A (3-phase) |
| | Ø 116 mm IP20 M5 terminal block B (D-352), 2.0 Nm, max. 25 mm² Drawing 4 Max. current, depending on ambient conditions: 60 A (3-phase) |
| | Ø 136 mm IP20 M5 terminal block B (D-352), 2.0 Nm, max. 25 mm² Drawing 5 Max. current, depending on ambient conditions: 60 A (3-phase) |
| | |

Note

- ⁽¹⁾ Statements about product lifetime are based on calculations and internal testing. They should only be interpreted as estimations. Also due to external factors, the lifetime in the field application may deviate from the calculated lifetime. In general, nothing stated herein shall be construed as a guarantee of quality or durability.



3-PHASE CAPACITORS

IP00, OIL

| RATED VOLTAGE 230 V, 50 Hz, DELTA CONNECTION, UL / ULC | | | | | | | |
|---|----------------------------|-------------|--------------|-----------|---------------------------------|-----------|-------------|
| TYPE | ARTICLE NO. ⁽¹⁾ | OUTPUT kvar | CAP. μ F | CURRENT A | DIMENSIONS \varnothing x H mm | WEIGHT kg | DRAWING NO. |
| PhMKP230.3.10,00-84 | 5341-44400-xx | 10 | 3 x 200.6 | 25.1 | 84.4 x 265 | 1.7 | 2 |
| PhMKP230.3.12,50-84 | 5341-44401-xx | 12.5 | 3 x 250.7 | 31.4 | 84.4 x 340 | 2.0 | 2 |
| PhMKP230.3.15,00-84 | 5341-44402-xx | 15 | 3 x 300.9 | 37.7 | 84.4 x 340 | 2.1 | 2 |

| RATED VOLTAGE 400 V, 50 Hz, DELTA CONNECTION, UL / ULC | | | | | | | | |
|---|----------------------------|-------------------|-------------------|--------------|-------------------------|---------------------------------|-----------|-------------|
| CAN BE USED ALSO FOR 415 V, FULL OVER VOLTAGE RANGE | | | | | | | | |
| TYPE | ARTICLE NO. ⁽¹⁾ | OUTPUT kvar 400 V | OUTPUT kvar 415 V | CAP. μ F | CURRENT A 400 V / 415 V | DIMENSIONS \varnothing x H mm | WEIGHT kg | DRAWING NO. |
| PhMKP400.3.10,00-84 | 5341-44403-xx | 10 | 10.8 | 3 x 66.3 | 14.4 / 15.0 | 84.4 x 190 | 1.3 | 2 |
| PhMKP400.3.12,50-84 | 5341-44404-xx | 12.5 | 13.5 | 3 x 82.9 | 18.0 / 18.7 | 84.4 x 190 | 1.3 | 2 |
| PhMKP400.3.15,00-84 | 5341-44405-xx | 15 | 16.1 | 3 x 99.5 | 21.6 / 22.4 | 84.4 x 190 | 1.3 | 2 |
| PhMKP400.3.16,70-84 | 5341-44406-xx | 16.7 | 18.0 | 3 x 110.7 | 24.1 / 25.0 | 84.4 x 265 | 1.7 | 2 |
| PhMKP400.3.20,00-84 | 5341-44407-xx | 20 | 21.5 | 3 x 132.6 | 28.8 / 30.0 | 84.4 x 265 | 1.7 | 2 |
| PhMKP400.3.25,00-84 | 5341-44408-xx | 25 | 26.9 | 3 x 165.8 | 36.1 / 37.4 | 84.4 x 265 | 1.7 | 2 |

| RATED VOLTAGE 440 V, 50 Hz, DELTA CONNECTION, UL / ULC | | | | | | | | |
|---|----------------------------|-------------------|-------------------|--------------|-------------------------|---------------------------------|-----------|-------------|
| CAN BE USED ALSO FOR 415 V | | | | | | | | |
| TYPE | ARTICLE NO. ⁽¹⁾ | OUTPUT kvar 440 V | OUTPUT kvar 415 V | CAP. μ F | CURRENT A 440 V / 415 V | DIMENSIONS \varnothing x H mm | WEIGHT kg | DRAWING NO. |
| PhMKP440.3.12,50-84 | 5341-44409-xx | 12.5 | 11.1 | 3 x 68.5 | 16.4/15.5 | 84.4 x 190 | 1.3 | 2 |
| PhMKP440.3.14,10-84 | 5341-44410-xx | 14.1 | 12.5 | 3 x 77.0 | 18.5/17.5 | 84.4 x 190 | 1.3 | 2 |
| PhMKP440.3.15,00-84 | 5341-44411-xx | 15 | 13.3 | 3 x 82.2 | 19.7/18.6 | 84.4 x 190 | 1.3 | 2 |
| PhMKP440.3.16,90-84 | 5341-44412-xx | 16.9 | 15 | 3 x 92.6 | 22.2/20.9 | 84.4 x 190 | 1.3 | 2 |
| PhMKP440.3.18,80-84 | 5341-44413-xx | 18.8 | 16.7 | 3 x 103.0 | 24.7/23.3 | 84.4 x 265 | 1.7 | 2 |
| PhMKP440.3.20,00-84 | 5341-44414-xx | 20 | 17.8 | 3 x 109.6 | 26.2/24.8 | 84.4 x 265 | 1.7 | 2 |
| PhMKP440.3.22,50-84 | 5341-44415-xx | 22.5 | 20 | 3 x 123.3 | 29.5/27.8 | 84.4 x 265 | 1.7 | 2 |
| PhMKP440.3.25,00-84 | 5341-44416-xx | 25 | 22.2 | 3 x 137.0 | 32.8/30.9 | 84.4 x 265 | 1.7 | 2 |
| PhMKP440.3.28,10-84 | 5341-44417-xx | 28.1 | 25 | 3 x 154.0 | 36.9/34.8 | 84.4 x 265 | 1.7 | 2 |
| PhMKP440.3.30,00-84 | 5341-44418-xx | 30 | 26.7 | 3 x 164.4 | 39.4/37.1 | 84.4 x 340 | 2.1 | 2 |

| RATED VOLTAGE 525 V, 50 Hz, DELTA CONNECTION, UL / ULC | | | | | | | | |
|---|----------------------------|-------------------|-------------------|--------------|-------------------------|---------------------------------|-----------|-------------|
| CAN BE USED ALSO FOR 480 V | | | | | | | | |
| TYPE | ARTICLE NO. ⁽¹⁾ | OUTPUT kvar 525 V | OUTPUT kvar 480 V | CAP. μ F | CURRENT A 525 V / 480 V | DIMENSIONS \varnothing x H mm | WEIGHT kg | DRAWING NO. |
| PhMKP525.3.10,00-84 | 5341-44419-xx | 10 | 8.33 | 3 x 38.5 | 11.0 / 10.1 | 84.4 x 190 | 1.3 | 2 |
| PhMKP525.3.12,50-84 | 5341-44420-xx | 12.5 | 10.4 | 3 x 48.1 | 13.7 / 12.6 | 84.4 x 190 | 1.3 | 2 |
| PhMKP525.3.13,80-84 | 5341-44421-xx | 13.8 | 11.5 | 3 x 53.1 | 15.2 / 13.8 | 84.4 x 190 | 1.3 | 2 |
| PhMKP525.3.15,00-84 | 5341-44422-xx | 15 | 12.5 | 3 x 57.7 | 16.5 / 15.0 | 84.4 x 190 | 1.3 | 2 |
| PhMKP525.3.20,00-84 | 5341-44423-xx | 20 | 16.7 | 3 x 77.0 | 22.0 / 20.1 | 84.4 x 265 | 1.7 | 2 |
| PhMKP525.3.25,00-84 | 5341-44424-xx | 25 | 20 | 3 x 96.2 | 27.5 / 25.1 | 84.4 x 265 | 1.7 | 2 |

Notes

- Other voltage ratings, outputs, and frequencies upon request. All PhMKP-type capacitors may be also be applied in 60 Hz networks, output and current will, however, be 20 % higher in these cases (i.e. additional thermal load and therefore, a lower class of temperature must be taken into account)

⁽¹⁾ Version no. xx may differ as it respects small changes, e.g. on the label

3-PHASE CAPACITORS

IP00, OIL

| RATED VOLTAGE 660 V, 50 Hz, DELTA CONNECTION, UL / ULC UP TO 660 V | | | | | | | | |
|---|----------------------------|-------------------------|-------------------------|------------|-------------------------------|---------------------------|--------------|----------------|
| CAN BE USED ALSO FOR 690 V, FULL OVER VOLTAGE RANGE | | | | | | | | |
| TYPE | ARTICLE NO. ⁽¹⁾ | OUTPUT kvar 660 V | OUTPUT kvar 690 V | CAP. μF | CURRENT A 660 V / 690 V | DIMENSIONS Ø x H mm | WEIGHT kg | DRAWING NO. |
| PhMKP660.3.08,33-84 | 5341-44425-xx | 8.33 | 9.1 | 3 x 20.3 | 7.3 / 7.6 | 84.4 x 190 | 1.4 | 2 |
| PhMKP660.3.10,00-84 | 5341-44426-xx | 10 | 10.9 | 3 x 24.4 | 8.7 / 9.1 | 84.4 x 190 | 1.9 | 2 |
| PhMKP660.3.12,50-84 | 5341-44427-xx | 12.5 | 13.7 | 3 x 30.4 | 10.9 / 11.5 | 84.4 x 265 | 1.9 | 2 |
| PhMKP660.3.15,00-84 | 5341-44428-xx | 15 | 16.4 | 3 x 36.5 | 13.1 / 13.7 | 84.4 x 265 | 2.0 | 2 |
| PhMKP660.3.16,70-84 | 5341-44429-xx | 16.7 | 18.3 | 3 x 40.7 | 14.6 / 15.3 | 84.4 x 265 | 2.0 | 2 |
| PhMKP660.3.20,00-84 | 5341-44430-xx | 20 | 21.9 | 3 x 48.7 | 17.5 / 18.3 | 84.4 x 340 | 2.4 | 2 |
| PhMKP660.3.22,90-84 | 5341-44431-xx | 22.9 | 25.0 | 3 x 55.8 | 20.0 / 20.9 | 84.4 x 340 | 2.4 | 2 |

| RATED VOLTAGE 690 V, 50 Hz, DELTA CONNECTION | | | | | | | | |
|---|----------------------------|-------------------------|-------------------------|------------|-------------------------------|---------------------------|--------------|----------------|
| CAN BE USED ALSO FOR 660 V | | | | | | | | |
| TYPE | ARTICLE NO. ⁽¹⁾ | OUTPUT kvar 660 V | OUTPUT kvar 690 V | CAP. μF | CURRENT A 690 V / 660 V | DIMENSIONS Ø x H mm | WEIGHT kg | DRAWING NO. |
| PhMKP690.3.12,50-84 | 5341-44432-xx | 11.4 | 12.5 | 3 x 27.9 | 10.5 / 10.0 | 84.4 x 265 | 1.9 | 2 |
| PhMKP690.3.15,00-84 | 5341-44433-xx | 13.7 | 15 | 3 x 33.4 | 12.6 / 12.0 | 84.4 x 265 | 1.9 | 2 |
| PhMKP690.3.20,00-84 | 5341-44434-xx | 18.3 | 20 | 3 x 44.6 | 16.7 / 16.0 | 84.4 x 340 | 2.4 | 2 |
| PhMKP690.3.25,00-84 | 5341-44435-xx | 22.9 | 25 | 3 x 55.7 | 20.9 / 20.0 | 84.4 x 340 | 2.4 | 2 |

Notes

- Other voltage ratings, outputs, and frequencies upon request. All PhMKP-type capacitors may be also be applied in 60 Hz networks, output and current will, however, be 20 % higher in these cases (i.e. additional thermal load and therefore, a lower class of temperature must be taken into account)
- ⁽¹⁾ Version no. xx may differ as it respects small changes, e.g. on the label

**Terminal cover (IP20), available for 84.4 mm diameter tubular can type capacitors.
(Cable gland not available for use with these covers)**

| TYPE | ARTICLE NO. | CAPACITOR Ø IN mm |
|------------------|--------------------|-------------------|
| CAP84-88-IN-LINE | 5341-COV-84-88IP20 | 84.4 |

Type CAP84-88-IN-LINE

- Protection class IP20
- Protective cover prevents unintentional touching of live terminals
- Proper ventilation is provided by use of additional holes in the protective cover's top
- Six slots located on the cover, three on each side, allow easy IN-LINE connection between two

TERMINAL COVER IP20: CAP84-IN-LINE

IN-LINE CONNECTION BETWEEN TWO CAPACITORS, IP20




3-PHASE CAPACITORS

IP20, OIL

| RATED VOLTAGE 230 V, 50 Hz, DELTA CONNECTION, UL / ULC | | | | | | | |
|--|----------------------------|----------------|------------|--------------|---------------------------|--------------|----------------|
| TYPE | ARTICLE NO. ⁽¹⁾ | OUTPUT kvar | CAP. µF | CURRENT A | DIMENSIONS Ø x H mm | WEIGHT kg | DRAWING NO. |
| PhMKP230.3.02,50-A64 | 5341-48300-xx | 2.5 | 3 x 50.1 | 6.3 | 64 x 190 | 0.8 | 1 |
| PhMKP230.3.05,00-A64 | 5341-48301-xx | 5 | 3 x 100.3 | 12.6 | 64 x 265 | 1.0 | 1 |
| PhMKP230.3.10,00-A84 | 5341-48600-xx | 10 | 3 x 200.6 | 25.1 | 84.4 x 265 | 1.7 | 3 |
| PhMKP230.3.12,50-A84 | 5341-48601-xx | 12.5 | 3 x 250.7 | 31.4 | 84.4 x 340 | 2.0 | 3 |
| PhMKP230.3.15,00-A84 | 5341-48602-xx | 15 | 3 x 300.9 | 37.7 | 84.4 x 340 | 2.1 | 3 |
| PhMKP230.3.10,00-B116 | 5341-47003-xx | 10 | 3 x 200.6 | 25.1 | 116 x 160 | 2.1 | 4 |
| PhMKP230.3.12,50-B116 | 5341-47004-xx | 12.5 | 3 x 250.7 | 31.4 | 116 x 190 | 2.5 | 4 |
| PhMKP230.3.15,00-B116 | 5341-47005-xx | 15 | 3 x 300.9 | 37.7 | 116 x 190 | 2.5 | 4 |
| PhMKP230.3.16,70-B116 | 5341-47006-xx | 16.7 | 3 x 335.0 | 41.9 | 116 x 230 | 3.1 | 4 |

| RATED VOLTAGE 400 V, 50 Hz, DELTA CONNECTION, UL / ULC | | | | | | | | |
|--|----------------------------|-------------------------|-------------------------|------------|-------------------------------|---------------------------|--------------|----------------|
| CAN BE USED ALSO FOR 415 V, FULL OVER VOLTAGE RANGE | | | | | | | | |
| TYPE | ARTICLE NO. ⁽¹⁾ | OUTPUT kvar 400 V | OUTPUT kvar 415 V | CAP. µF | CURRENT A 400 V / 415 V | DIMENSIONS Ø x H mm | WEIGHT kg | DRAWING NO. |
| PhMKP400.3.02,50-A64 | 5341-48302-xx | 2.5 | 2.7 | 3 x 16.6 | 3.6 / 3.7 | 64 x 190 | 0.8 | 1 |
| PhMKP400.3.05,00-A64 | 5341-48303-xx | 5 | 5.4 | 3 x 33.2 | 7.2 / 7.5 | 64 x 190 | 0.8 | 1 |
| PhMKP400.3.06,67-A64 | 5341-48304-xx | 6.67 | 7.2 | 3 x 44.2 | 9.6 / 10.0 | 64 x 190 | 0.8 | 1 |
| PhMKP400.3.07,50-A64 | 5341-48305-xx | 7.5 | 8.1 | 3 x 49.7 | 10.8 / 11.2 | 64 x 190 | 0.8 | 1 |
| PhMKP400.3.08,33-A64 | 5341-48306-xx | 8.33 | 9.0 | 3 x 55.2 | 12 / 12.5 | 64 x 190 | 0.8 | 1 |
| PhMKP400.3.10,00-A64 | 5341-48307-xx | 10 | 10.8 | 3 x 66.3 | 14.4 / 14.9 | 64 x 265 | 1.0 | 1 |
| PhMKP400.3.12,50-A64 | 5341-48308-xx | 12.5 | 13.5 | 3 x 82.9 | 18 / 18.7 | 64 x 265 | 1.0 | 1 |
| PhMKP400.3.10,00-A84 | 5341-48603-xx | 10 | 10.8 | 3 x 66.3 | 14.4 / 14.9 | 84.4 x 190 | 1.3 | 3 |
| PhMKP400.3.12,50-A84 | 5341-48604-xx | 12.5 | 13.5 | 3 x 82.9 | 18 / 18.7 | 84.4 x 190 | 1.3 | 3 |
| PhMKP400.3.15,00-A84 | 5341-48605-xx | 15 | 16.1 | 3 x 99.5 | 21.6 / 22.4 | 84.4 x 190 | 1.3 | 3 |
| PhMKP400.3.16,70-A84 | 5341-48606-xx | 16.7 | 18.0 | 3 x 110.7 | 24.1 / 25.0 | 84.4 x 265 | 1.7 | 3 |
| PhMKP400.3.20,00-A84 | 5341-48607-xx | 20 | 21.5 | 3 x 132.6 | 28.8 / 30.0 | 84.4 x 265 | 1.7 | 3 |
| PhMKP400.3.25,00-A84 | 5341-48608-xx | 25 | 26.9 | 3 x 165.8 | 36.1 / 37.4 | 84.4 x 265 | 1.7 | 3 |
| PhMKP400.3.16,70-B116 | 5341-47010-xx | 16.7 | 18.0 | 3 x 110.7 | 24.1 / 25.0 | 116 x 160 | 2.1 | 4 |
| PhMKP400.3.20,00-B116 | 5341-47011-xx | 20 | 21.5 | 3 x 132.6 | 28.8 / 29.9 | 116 x 160 | 2.1 | 4 |
| PhMKP400.3.25,00-B116 | 5341-47012-xx | 25 | 26.9 | 3 x 165.8 | 36.1 / 37.4 | 116 x 190 | 2.5 | 4 |
| PhMKP400.3.30,00-B136 | 5341-47601-xx | 30 | 32.3 | 3 x 198.9 | 43.3 / 44.9 | 136 x 190 | 2.6 | 5 |

Notes

- Other voltage ratings, outputs, and frequencies upon request. All PhMKP-type capacitors may be also be applied in 60 Hz networks, output and current will, however, be 20 % higher in these cases (i.e. additional thermal load and therefore, a lower class of temperature must be taken into account)

⁽¹⁾ Version no. xx may differ as it respects small changes, e.g. on the label



3-PHASE CAPACITORS

IP20, OIL

| RATED VOLTAGE 440 V, 50 Hz, DELTA CONNECTION, UL / ULC | | | | | | | | |
|--|----------------------------|-------------------------|-------------------------|------------|-------------------------------|---------------------------|--------------|----------------|
| CAN BE USED ALSO FOR 415 V | | | | | | | | |
| TYPE | ARTICLE NO. ⁽¹⁾ | OUTPUT kvar 440 V | OUTPUT kvar 415 V | CAP. µF | CURRENT A 440 V / 415 V | DIMENSIONS Ø x H mm | WEIGHT kg | DRAWING NO. |
| PhMKP440.3.02,50-A64 | 5341-48322-xx | 2.5 | 2.2 | 3 x 13.7 | 3.3 / 3.1 | 64 x 190 | 0.7 | 1 |
| PhMKP440.3.05,00-A64 | 5341-48309-xx | 5 | 4.4 | 3 x 27.4 | 6.6 / 6.1 | 64 x 190 | 0.8 | 1 |
| PhMKP440.3.08,33-A64 | 5341-48310-xx | 8.33 | 7.4 | 3 x 45.7 | 10.9 / 10.3 | 64 x 190 | 0.8 | 1 |
| PhMKP440.3.10,00-A64 | 5341-48311-xx | 10 | 8.9 | 3 x 54.8 | 13.1 / 12.4 | 64 x 265 | 1.0 | 1 |
| PhMKP440.3.11,20-A64 | 5341-48312-xx | 11.2 | 10 | 3 x 61.4 | 14.7 / 13.9 | 64 x 265 | 1.0 | 1 |
| PhMKP440.3.12,50-A64 | 5341-48313-xx | 12.5 | 11.1 | 3 x 68.5 | 16.4 / 15.4 | 64 x 265 | 1.0 | 1 |
| PhMKP440.3.14,00-A64 | 5341-48314-xx | 14 | 12.5 | 3 x 76.7 | 18.4 / 17.4 | 64 x 265 | 1.0 | 1 |
| PhMKP440.3.12,50-A84 | 5341-48609-xx | 12.5 | 11.1 | 3 x 68.5 | 16.4 / 15.5 | 84.4 x 190 | 1.3 | 3 |
| PhMKP440.3.14,10-A84 | 5341-48610-xx | 14.1 | 12.5 | 3 x 77.0 | 18.5 / 17.5 | 84.4 x 190 | 1.3 | 3 |
| PhMKP440.3.15,00-A84 | 5341-48611-xx | 15 | 13.3 | 3 x 82.2 | 19.7 / 18.6 | 84.4 x 190 | 1.3 | 3 |
| PhMKP440.3.16,90-A84 | 5341-48612-xx | 16.9 | 15 | 3 x 92.6 | 22.2 / 20.9 | 84.4 x 190 | 1.3 | 3 |
| PhMKP440.3.18,80-A84 | 5341-48613-xx | 18.8 | 16.67 | 3 x 103.0 | 24.7 / 23.3 | 84.4 x 265 | 1.7 | 3 |
| PhMKP440.3.20,00-A84 | 5341-48614-xx | 20 | 17.8 | 3 x 109.6 | 26.2 / 24.8 | 84.4 x 265 | 1.7 | 3 |
| PhMKP440.3.22,50-A84 | 5341-48615-xx | 22.5 | 20 | 3 x 123.3 | 29.5 / 27.8 | 84.4 x 265 | 1.7 | 3 |
| PhMKP440.3.25,00-A84 | 5341-48616-xx | 25 | 22.2 | 3 x 137.0 | 32.8 / 30.9 | 84.4 x 265 | 1.7 | 3 |
| PhMKP440.3.28,10-A84 | 5341-48617-xx | 28.1 | 25 | 3 x 154.0 | 36.9 / 34.8 | 84.4 x 265 | 1.7 | 3 |
| PhMKP440.3.30,00-A84 | 5341-48618-xx | 30 | 26.7 | 3 x 164.4 | 39.4 / 37.1 | 84.4 x 340 | 2.1 | 3 |
| PhMKP440.3.14,10-B116 | 5341-47068-xx | 14.1 | 12.5 | 3 x 77.0 | 18.5 / 17.5 | 116 x 160 | 1.5 | 4 |
| PhMKP440.3.18,80-B116 | 5341-47015-xx | 18.8 | 16.67 | 3 x 103.0 | 24.7 / 23.3 | 116 x 160 | 1.8 | 4 |
| PhMKP440.3.20,00-B116 | 5341-47016-xx | 20 | 17.8 | 3 x 109.6 | 26.2 / 24.8 | 116 x 160 | 1.8 | 4 |
| PhMKP440.3.22,50-B116 | 5341-47017-xx | 22.5 | 20 | 3 x 123.3 | 29.5 / 27.8 | 116 x 160 | 1.9 | 4 |
| PhMKP440.3.25,00-B116 | 5341-47018-xx | 25 | 22.2 | 3 x 137.0 | 32.8 / 30.9 | 116 x 190 | 2.0 | 4 |
| PhMKP440.3.28,10-B116 | 5341-47020-xx | 28.1 | 25 | 3 x 154.0 | 36.9 / 34.8 | 116 x 190 | 2.0 | 4 |
| PhMKP440.3.30,00-B116 | 5341-47022-xx | 30 | 26.7 | 3 x 164.4 | 39.4 / 37.1 | 116 x 190 | 2.2 | 4 |
| PhMKP440.3.33,00-B136 | 5341-47602-xx | 33 | 29.4 | 3 x 180.9 | 43.3 / 40.9 | 136 x 190 | 2.3 | 5 |

Notes

- Other voltage ratings, outputs, and frequencies upon request. All PhMKP-type capacitors may be also be applied in 60 Hz networks, output and current will, however, be 20 % higher in these cases (i.e. additional thermal load and therefore, a lower class of temperature must be taken into account)
- (1) Version no. xx may differ as it respects small changes, e.g. on the label



3-PHASE CAPACITORS

IP20, OIL

| RATED VOLTAGE 525 V, 50 Hz, DELTA CONNECTION, UL / ULC | | | | | | | | |
|--|----------------------------|-------------------|-------------------|-----------|-------------------------|---------------------|-----------|-------------|
| CAN BE USED ALSO FOR 480 V | | | | | | | | |
| TYPE | ARTICLE NO. ⁽¹⁾ | OUTPUT kvar 525 V | OUTPUT kvar 480 V | CAP. μF | CURRENT A 525 V / 480 V | DIMENSIONS Ø x H mm | WEIGHT kg | DRAWING NO. |
| PhMKP525.3.03,00-A64 | 5341-48315-xx | 3 | 2.5 | 3 x 11.5 | 3.3 / 3.0 | 64 x 190 | 0.8 | 1 |
| PhMKP525.3.05,00-A64 | 5341-48316-xx | 5 | 4.2 | 3 x 19.2 | 5.5 / 5.0 | 64 x 190 | 0.8 | 1 |
| PhMKP525.3.08,33-A64 | 5341-48317-xx | 8.33 | 7 | 3 x 32.1 | 9.2 / 8.4 | 64 x 190 | 0.8 | 1 |
| PhMKP525.3.10,00-A64 | 5341-48318-xx | 10 | 8.33 | 3 x 38.5 | 11.0 / 10.1 | 64 x 265 | 1.0 | 1 |
| PhMKP525.3.10,00-A84 | 5341-48619-xx | 10 | 8.33 | 3 x 38.5 | 11.0 / 10.1 | 84.4 x 190 | 1.3 | 3 |
| PhMKP525.3.12,50-A84 | 5341-48620-xx | 12.5 | 10.4 | 3 x 48.1 | 13.7 / 12.6 | 84.4 x 190 | 1.3 | 3 |
| PhMKP525.3.13.80-A84 | 5341-48621-xx | 13.8 | 11.5 | 3 x 53.1 | 15.2 / 13.8 | 84.4 x 190 | 1.3 | 3 |
| PhMKP525.3.15,00-A84 | 5341-48622-xx | 15 | 12.5 | 3 x 57.7 | 16.5 / 15.0 | 84.4 x 190 | 1.3 | 3 |
| PhMKP525.3.20,00-A84 | 5341-48623-xx | 20 | 16.7 | 3 x 77.0 | 22.0 / 20.1 | 84.4 x 265 | 1.7 | 3 |
| PhMKP525.3.25,00-A84 | 5341-48624-xx | 25 | 20.9 | 3 x 96.2 | 27.5 / 25.1 | 84.4 x 265 | 1.7 | 3 |
| PhMKP525.3.20,00-B116 | 5341-47024-xx | 20 | 16.7 | 3 x 77.0 | 22.0 / 20.1 | 116 x 160 | 1.8 | 4 |
| PhMKP525.3.25,00-B116 | 5341-47025-xx | 25 | 20.9 | 3 x 96.2 | 27.5 / 25.1 | 116 x 190 | 2.5 | 4 |
| PhMKP525.3.30,00-B116 | 5341-47069-xx | 30 | 25.1 | 3 x 115.4 | 33.0 / 30.2 | 116 x 230 | 2.6 | 4 |
| PhMKP525.3.30,00-B136 | 5341-47603-xx | 30 | 25.1 | 3 x 115.4 | 33.0 / 30.2 | 136 x 190 | 2.6 | 5 |
| PhMKP525.3.35,90-B116 | 5341-47070-xx | 35.9 | 30 | 3 x 138.2 | 39.5 / 36.1 | 116 x 265 | 2.8 | 4 |
| PhMKP525.3.35,90-B136 | 5341-47600-xx | 35.9 | 30 | 3 x 138.2 | 39.5 / 36.1 | 136 x 230 | 3.5 | 5 |
| PhMKP525.3.37,10-B116 | 5341-47065-xx | 37.1 | 31 | 3 x 142.8 | 40.8 / 37.3 | 116 x 265 | 2.8 | 4 |
| PhMKP525.3.37,10-B136 | 5341-47604-xx | 37.1 | 31 | 3 x 142.8 | 40.8 / 37.3 | 136 x 230 | 3.5 | 5 |

Notes

- Other voltage ratings, outputs, and frequencies upon request. All PhMKP-type capacitors may be also be applied in 60 Hz networks, output and current will, however, be 20 % higher in these cases (i.e. additional thermal load and therefore, a lower class of temperature must be taken into account)
- ⁽¹⁾ Version no. xx may differ as it respects small changes, e.g. on the label

**3-PHASE CAPACITORS*****IP20, OIL*****RATED VOLTAGE 660 V, 50 Hz, 64 / 84: DELTA CONNECTION, 116 / 136: STAR CONNECTION, UL / ULC UP TO 660 V****CAN BE USED ALSO FOR 690 V**

| TYPE | ARTICLE NO. ⁽¹⁾ | OUTPUT kvar 660 V | OUTPUT kvar 690 V | CAP. μ F | CURRENT A 660 V / 690 V | DIMENSIONS \varnothing x H mm | WEIGHT kg | DRAWING NO. |
|-----------------------|----------------------------|-------------------------|-------------------------|-----------------|-------------------------------|---------------------------------------|--------------|----------------|
| PhMKP660.3.05,00-A64 | 5341-48319-xx | 5 | 5.5 | 3 x 12.2 | 4.4 / 4.6 | 64 x 190 | 0.8 | 1 |
| PhMKP660.3.08,33-A64 | 5341-48320-xx | 8.33 | 9.1 | 3 x 20.3 | 7.3 / 7.6 | 64 x 265 | 1.0 | 1 |
| PhMKP660.3.08,33-A84 | 5341-48625-xx | 8.33 | 9.1 | 3 x 20.3 | 7.3 / 7.6 | 84.4 x 190 | 1.3 | 3 |
| PhMKP660.3.10,00-A84 | 5341-48626-xx | 10 | 10.9 | 3 x 24.4 | 8.7 / 9.1 | 84.4 x 190 | 1.3 | 3 |
| PhMKP660.3.12,50-A84 | 5341-48627-xx | 12.5 | 13.7 | 3 x 30.4 | 10.9 / 11.4 | 84.4 x 265 | 1.7 | 3 |
| PhMKP660.3.15,00-A84 | 5341-48628-xx | 15 | 16.4 | 3 x 36.5 | 13.1 / 13.7 | 84.4 x 265 | 1.7 | 3 |
| PhMKP660.3.16,70-A84 | 5341-48629-xx | 16.7 | 18.3 | 3 x 40.7 | 14.6 / 15.3 | 84.4 x 265 | 1.7 | 3 |
| PhMKP660.3.20,00-A84 | 5341-48630-xx | 20 | 21.9 | 3 x 48.7 | 17.5 / 18.3 | 84.4 x 340 | 2.1 | 3 |
| PhMKP660.3.22,90-A84 | 5341-48631-xx | 22.9 | 25 | 3 x 55.8 | 20 / 20.9 | 84.4 x 340 | 2.1 | 3 |
| PhMKP660.2.12,50-B116 | 5341-47057-xx | 12.5 | 13.7 | 3 x 91.4 | 10.9 / 11.4 | 116 x 160 | 2.1 | 4 |
| PhMKP660.2.15,00-B116 | 5341-47058-xx | 15 | 16.4 | 3 x 109.6 | 13.1 / 13.7 | 116 x 160 | 2.1 | 4 |
| PhMKP660.2.16,70-B116 | 5341-47059-xx | 16.7 | 18.3 | 3 x 122.1 | 14.6 / 15.3 | 116 x 160 | 2.1 | 4 |
| PhMKP660.2.20,00-B116 | 5341-47061-xx | 20 | 21.9 | 3 x 146.2 | 17.5 / 18.3 | 116 x 190 | 2.3 | 4 |
| PhMKP660.2.22,90-B116 | 5341-47062-xx | 22.9 | 25 | 3 x 167.3 | 20 / 20.9 | 116 x 190 | 2.5 | 4 |
| PhMKP660.2.25,00-B136 | 5341-47605-xx | 25 | 27.3 | 3 x 182.7 | 21.9 / 22.9 | 136 x 190 | 2.6 | 5 |
| PhMKP660.2.30,00-B136 | 5341-47606-xx | 30 | 32.8 | 3 x 219.2 | 26.2 / 27.4 | 136 x 230 | 3.4 | 5 |

RATED VOLTAGE 690 V, 50 Hz, 64 / 84: DELTA CONNECTION, 116 / 136: STAR CONNECTION**CAN BE USED ALSO FOR 660 V**

| TYPE | ARTICLE NO. ⁽¹⁾ | OUTPUT kvar 690 V | OUTPUT kvar 660 V | CAP. μ F | CURRENT A 690 V / 660 V | DIMENSIONS \varnothing x H mm | WEIGHT kg | DRAWING NO. |
|-----------------------|----------------------------|-------------------------|-------------------------|-----------------|-------------------------------|---------------------------------------|--------------|----------------|
| PhMKP690.3.10,00-A64 | 5341-48321-xx | 10 | 9.1 | 3 x 22.3 | 8.4 / 8.0 | 64 x 265 | 1.1 | 1 |
| PhMKP690.3.12,50-A84 | 5341-48632-xx | 12.5 | 11.4 | 3 x 27.9 | 10.5 / 10.0 | 84.4 x 265 | 1.9 | 3 |
| PhMKP690.3.15,00-A84 | 5341-48633-xx | 15 | 13.7 | 3 x 33.4 | 12.5 / 12.0 | 84.4 x 265 | 1.9 | 3 |
| PhMKP690.3.20,00-A84 | 5341-48634-xx | 20 | 18.3 | 3 x 44.6 | 16.7 / 16.0 | 84.4 x 340 | 2.4 | 3 |
| PhMKP690.3.25,00-A84 | 5341-48635-xx | 25 | 22.9 | 3 x 55.7 | 20.9 / 20.0 | 84.4 x 340 | 2.4 | 3 |
| PhMKP690.2.12,50-B116 | 5341-47071-xx | 12.5 | 11.4 | 3 x 83.6 | 10.5 / 10.0 | 116 x 160 | 2.0 | 4 |
| PhMKP690.2.15,00-B116 | 5341-47072-xx | 15 | 13.7 | 3 x 100.3 | 12.5 / 12.0 | 116 x 160 | 2.2 | 4 |
| PhMKP690.2.20,00-B116 | 5341-47073-xx | 20 | 18.3 | 3 x 133.7 | 16.7 / 16.0 | 116 x 190 | 2.2 | 4 |
| PhMKP690.2.25,00-B116 | 5341-47074-xx | 25 | 22.9 | 3 x 167.3 | 20.9 / 20.0 | 116 x 190 | 2.5 | 4 |

Notes

- Other voltage ratings, outputs, and frequencies upon request. All PhMKP-type capacitors may be also be applied in 60 Hz networks, output and current will, however, be 20 % higher in these cases (i.e. additional thermal load and therefore, a lower class of temperature must be taken into account)

⁽¹⁾ Version no. xx may differ as it respects small changes, e.g. on the label



3-PHASE CAPACITORS

IP00, DRY

| RATED VOLTAGE 230 V, 50 Hz, DELTA CONNECTION, UL / ULC | | | | | | | |
|--|----------------------------|-------------|--------------|-----------|---------------------------------|-----------|-------------|
| TYPE | ARTICLE NO. ⁽¹⁾ | OUTPUT kvar | CAP. μ F | CURRENT A | DIMENSIONS \varnothing x H mm | WEIGHT kg | DRAWING NO. |
| PhMKPg230.3.10,00-84 | 5343-44001-xx | 10 | 3 x 200.6 | 25.1 | 84.4 x 265 | 1.4 | 2 |
| PhMKPg230.3.12,50-84 | 5343-44002-xx | 12.5 | 3 x 250.7 | 31.4 | 84.4 x 340 | 1.5 | 2 |
| PhMKPg230.3.15,00-84 | 5343-44003-xx | 15 | 3 x 300.9 | 37.7 | 84.4 x 340 | 1.7 | 2 |

| RATED VOLTAGE 400 V, 50 Hz, DELTA CONNECTION, UL / ULC | | | | | | | | |
|--|----------------------------|-------------------|-------------------|--------------|-------------------------|---------------------------------|-----------|-------------|
| CAN BE USED ALSO FOR 415 V, FULL OVER VOLTAGE RANGE | | | | | | | | |
| TYPE | ARTICLE NO. ⁽¹⁾ | OUTPUT kvar 400 V | OUTPUT kvar 415 V | CAP. μ F | CURRENT A 400 V / 415 V | DIMENSIONS \varnothing x H mm | WEIGHT kg | DRAWING NO. |
| PhMKPg400.3.10,00-84 | 5343-44004-xx | 10 | 10.8 | 3 x 66.3 | 14.4 / 15.0 | 84.4 x 190 | 0.9 | 2 |
| PhMKPg400.3.12,50-84 | 5343-44005-xx | 12.5 | 13.5 | 3 x 82.9 | 18.0 / 18.7 | 84.4 x 190 | 1.0 | 2 |
| PhMKPg400.3.15,00-84 | 5343-44006-xx | 15 | 16.1 | 3 x 99.5 | 21.6 / 22.4 | 84.4 x 190 | 1.1 | 2 |
| PhMKPg400.3.16,70-84 | 5343-44007-xx | 16.7 | 18.0 | 3 x 110.7 | 24.1 / 25.0 | 84.4 x 265 | 1.4 | 2 |
| PhMKPg400.3.20,00-84 | 5343-44008-xx | 20 | 21.5 | 3 x 132.6 | 28.8 / 30.0 | 84.4 x 265 | 1.4 | 2 |
| PhMKPg400.3.25,00-84 | 5343-44009-xx | 25 | 26.9 | 3 x 165.8 | 36.1 / 37.4 | 84.4 x 265 | 1.5 | 2 |

| RATED VOLTAGE 440 V, 50 Hz, DELTA CONNECTION, UL / ULC | | | | | | | | |
|--|----------------------------|-------------------|-------------------|--------------|-------------------------|---------------------------------|-----------|-------------|
| CAN BE USED ALSO FOR 415 V | | | | | | | | |
| TYPE | ARTICLE NO. ⁽¹⁾ | OUTPUT kvar 440 V | OUTPUT kvar 415 V | CAP. μ F | CURRENT A 440 V / 415 V | DIMENSIONS \varnothing x H mm | WEIGHT kg | DRAWING NO. |
| PhMKPg440.3.12,50-84 | 5343-44010-xx | 12.5 | 11.1 | 3 x 68.5 | 16.4 / 15.5 | 84.4 x 190 | 1.0 | 2 |
| PhMKPg440.3.14,10-84 | 5343-44011-xx | 14.1 | 12.5 | 3 x 77.0 | 18.5 / 17.5 | 84.4 x 190 | 1.1 | 2 |
| PhMKPg440.3.15,00-84 | 5343-44012-xx | 15 | 13.3 | 3 x 82.2 | 19.7 / 18.6 | 84.4 x 190 | 1.1 | 2 |
| PhMKPg440.3.16,90-84 | 5343-44013-xx | 16.9 | 15 | 3 x 92.6 | 22.2 / 20.9 | 84.4 x 190 | 1.2 | 2 |
| PhMKPg440.3.18,80-84 | 5343-44014-xx | 18.8 | 16.7 | 3 x 103.0 | 24.7 / 23.3 | 84.4 x 265 | 1.3 | 2 |
| PhMKPg440.3.20,00-84 | 5343-44015-xx | 20 | 17.8 | 3 x 109.6 | 26.2 / 24.8 | 84.4 x 265 | 1.4 | 2 |
| PhMKPg440.3.22,50-84 | 5343-44016-xx | 22.5 | 20 | 3 x 123.3 | 29.5 / 27.8 | 84.4 x 265 | 1.4 | 2 |
| PhMKPg440.3.25,00-84 | 5343-44017-xx | 25 | 22.2 | 3 x 137.0 | 32.8 / 30.9 | 84.4 x 265 | 1.5 | 2 |
| PhMKPg440.3.28,10-84 | 5343-44018-xx | 28.1 | 25 | 3 x 154.0 | 36.9 / 34.8 | 84.4 x 265 | 1.5 | 2 |
| PhMKPg440.3.30,00-84 | 5343-44019-xx | 30 | 26.7 | 3 x 164.4 | 39.4 / 37.1 | 84.4 x 340 | 1.8 | 2 |

| RATED VOLTAGE 525 V, 50 Hz, DELTA CONNECTION, UL / ULC | | | | | | | | |
|--|----------------------------|-------------------|-------------------|--------------|-------------------------|---------------------------------|-----------|-------------|
| CAN BE USED ALSO FOR 480 V | | | | | | | | |
| TYPE | ARTICLE NO. ⁽¹⁾ | OUTPUT kvar 525 V | OUTPUT kvar 480 V | CAP. μ F | CURRENT A 525 V / 480 V | DIMENSIONS \varnothing x H mm | WEIGHT kg | DRAWING NO. |
| PhMKPg525.3.10,00-84 | 5343-44020-xx | 10 | 8.33 | 3 x 38.5 | 11.0 / 10.1 | 84.4 x 190 | 0.8 | 2 |
| PhMKPg525.3.12,50-84 | 5343-44021-xx | 12.5 | 10.4 | 3 x 48.1 | 13.7 / 12.6 | 84.4 x 190 | 1.0 | 2 |
| PhMKPg525.3.13,80-84 | 5343-44022-xx | 13.8 | 11.5 | 3 x 53.1 | 15.2 / 13.8 | 84.4 x 190 | 1.0 | 2 |
| PhMKPg525.3.15,00-84 | 5343-44023-xx | 15 | 12.5 | 3 x 57.7 | 16.5 / 15.0 | 84.4 x 190 | 1.1 | 2 |
| PhMKPg525.3.20,00-84 | 5343-44024-xx | 20 | 16.7 | 3 x 77.0 | 22.0 / 20.1 | 84.4 x 265 | 1.3 | 2 |
| PhMKPg525.3.25,00-84 | 5343-44025-xx | 25 | 20 | 3 x 96.2 | 27.5 / 25.1 | 84.4 x 265 | 1.5 | 2 |

Notes

- Other voltage ratings, outputs, and frequencies upon request. All PhMKP-type capacitors may be also be applied in 60 Hz networks, output and current will, however, be 20 % higher in these cases (i.e. additional thermal load and therefore, a lower class of temperature must be taken into account)

⁽¹⁾ Version no. xx may differ as it respects small changes, e.g. on the label

3-PHASE CAPACITORS
IP00, DRY

| RATED VOLTAGE 660 V, 50 Hz, DELTA CONNECTION, UL / ULC UP TO 660 V | | | | | | | | |
|---|----------------------------|-------------------------|-------------------------|------------|----------------------------------|---------------------------|--------------|----------------|
| CAN BE USED ALSO FOR 690 V, FULL OVER VOLTAGE RANGE | | | | | | | | |
| TYPE | ARTICLE NO. ⁽¹⁾ | OUTPUT kvar 660 V | OUTPUT kvar 690 V | CAP. µF | CURRENT A 660 V / 690 V | DIMENSIONS Ø x H mm | WEIGHT kg | DRAWING NO. |
| PhMKPg660.3.08,33-84 | 5343-44026-xx | 8.33 | 9.1 | 3 x 20.3 | 7.3 / 7.6 | 84.4 x 190 | 0.9 | 2 |
| PhMKPg660.3.10,00-84 | 5343-44027-xx | 10 | 10.9 | 3 x 24.4 | 8.7 / 9.1 | 84.4 x 190 | 1.1 | 2 |
| PhMKPg660.3.12,50-84 | 5343-44028-xx | 12.5 | 13.7 | 3 x 30.4 | 10.9 / 11.5 | 84.4 x 265 | 1.2 | 2 |
| PhMKPg660.3.15,00-84 | 5343-44029-xx | 15 | 16.4 | 3 x 36.5 | 13.1 / 13.7 | 84.4 x 265 | 1.4 | 2 |
| PhMKPg660.3.16,70-84 | 5343-44030-xx | 16.7 | 18.3 | 3 x 40.7 | 14.6 / 15.3 | 84.4 x 265 | 1.5 | 2 |
| PhMKPg660.3.20,00-84 | 5343-44031-xx | 20 | 21.9 | 3 x 48.7 | 17.5 / 18.3 | 84.4 x 340 | 1.7 | 2 |
| PhMKPg660.3.22,90-84 | 5343-44032-xx | 22.9 | 25.0 | 3 x 55.8 | 20.0 / 20.9 | 84.4 x 340 | 1.9 | 2 |

| RATED VOLTAGE 690 V, 50 Hz, DELTA CONNECTION | | | | | | | | |
|---|----------------------------|-------------------------|-------------------------|------------|----------------------------------|---------------------------|--------------|----------------|
| CAN BE USED ALSO FOR 660 V | | | | | | | | |
| TYPE | ARTICLE NO. ⁽¹⁾ | OUTPUT kvar 660 V | OUTPUT kvar 690 V | CAP. µF | CURRENT A 690 V / 660 V | DIMENSIONS Ø x H mm | WEIGHT kg | DRAWING NO. |
| PhMKPg690.3.12,50-84 | 5343-44033-xx | 11.4 | 12.5 | 3 x 27.9 | 10.5 / 10.0 | 84.4 x 265 | 1.1 | 2 |
| PhMKPg690.3.15,00-84 | 5343-44034-xx | 13.7 | 15 | 3 x 33.4 | 12.6 / 12.0 | 84.4 x 265 | 1.3 | 2 |
| PhMKPg690.3.20,00-84 | 5343-44035-xx | 18.3 | 20 | 3 x 44.6 | 16.7 / 16.0 | 84.4 x 340 | 1.6 | 2 |
| PhMKPg690.3.25,00-84 | 5343-44036-xx | 22.9 | 25 | 3 x 55.7 | 20.9 / 20.0 | 84.4 x 340 | 1.9 | 2 |

Notes

- Other voltage ratings, outputs, and frequencies upon request. All PhMKP-type capacitors may be also be applied in 60 Hz networks, output and current will, however, be 20 % higher in these cases (i.e. additional thermal load and therefore, a lower class of temperature must be taken into account)
- ⁽¹⁾ Version no. xx may differ as it respects small changes, e.g. on the label

**Terminal cover (IP20), available for 84.4 mm diameter tubular can type capacitors.
(Cable gland not available for use with these covers)**

| TYPE | ARTICLE NO. | CAPACITOR Ø IN mm |
|------------------|--------------------|-------------------|
| CAP84-88-IN-LINE | 5341-COV-84-88IP20 | 84.4 |

Type CAP84-88-IN-LINE

- Protection class IP20
- Protective cover prevents unintentional touching of live terminals
- Proper ventilation is provided by use of additional holes in the protective cover's top
- Six slots located on the cover, three on each side, allow easy IN-LINE connection between two

TERMINAL COVER IP20: CAP84-IN-LINE

IN-LINE CONNECTION BETWEEN TWO CAPACITORS, IP20


**3-PHASE CAPACITORS****IP20, DRY**

| RATED VOLTAGE 230 V, 50 Hz, DELTA CONNECTION, UL / ULC | | | | | | | |
|---|----------------------------|----------------|-----------------|--------------|---------------------------------------|--------------|----------------|
| TYPE | ARTICLE NO. ⁽¹⁾ | OUTPUT kvar | CAP. μ F | CURRENT A | DIMENSIONS \varnothing x H mm | WEIGHT kg | DRAWING NO. |
| PhMKPg230.3.02,50-A64 | 5343-48200-xx | 2.5 | 3 x 50.1 | 6.3 | 64 x 190 | 0.6 | 1 |
| PhMKPg230.3.05,00-A64 | 5343-48201-xx | 5 | 3 x 100.3 | 12.6 | 64 x 265 | 0.8 | 1 |
| PhMKPg230.3.10,00-A84 | 5343-48500-xx | 10 | 3 x 200.6 | 25.1 | 84.4 x 265 | 1.4 | 3 |
| PhMKPg230.3.12,50-A84 | 5343-48501-xx | 12.5 | 3 x 250.7 | 31.4 | 84.4 x 340 | 1.5 | 3 |
| PhMKPg230.3.15,00-A84 | 5343-48502-xx | 15 | 3 x 300.9 | 37.7 | 84.4 x 340 | 1.7 | 3 |
| PhMKPg230.3.10,00-B116 | 5343-47206-xx | 10 | 3 x 200.6 | 25.1 | 116 x 160 | 1.5 | 4 |
| PhMKPg230.3.12,50-B116 | 5343-47207-xx | 12.5 | 3 x 250.7 | 31.4 | 116 x 190 | 1.7 | 4 |
| PhMKPg230.3.15,00-B116 | 5343-47208-xx | 15 | 3 x 300.9 | 37.7 | 116 x 190 | 1.9 | 4 |
| PhMKPg230.3.16,70-B116 | 5343-47209-xx | 16.7 | 3 x 335.0 | 41.9 | 116 x 230 | 2.2 | 4 |

| RATED VOLTAGE 400 V, 50 Hz, DELTA CONNECTION, UL / ULC | | | | | | | | |
|---|----------------------------|-------------------------|-------------------------|-----------------|-------------------------------|---------------------------------------|--------------|----------------|
| CAN BE USED ALSO FOR 415 V, FULL OVER VOLTAGE RANGE | | | | | | | | |
| TYPE | ARTICLE NO. ⁽¹⁾ | OUTPUT kvar 400 V | OUTPUT kvar 415 V | CAP. μ F | CURRENT A 400 V / 415 V | DIMENSIONS \varnothing x H mm | WEIGHT kg | DRAWING NO. |
| PhMKPg400.3.02,50-A64 | 5343-48202-xx | 2.5 | 2.7 | 3 x 16.6 | 3.6 / 3.7 | 64 x 190 | 0.6 | 1 |
| PhMKPg400.3.05,00-A64 | 5343-48203-xx | 5 | 5.4 | 3 x 33.2 | 7.2 / 7.5 | 64 x 190 | 0.6 | 1 |
| PhMKPg400.3.06,67-A64 | 5343-48204-xx | 6.67 | 7.2 | 3 x 44.2 | 9.6 / 10.0 | 64 x 190 | 0.6 | 1 |
| PhMKPg400.3.07,50-A64 | 5343-48205-xx | 7.5 | 8.1 | 3 x 49.7 | 10.8 / 11.2 | 64 x 190 | 0.6 | 1 |
| PhMKPg400.3.08,33-A64 | 5343-48206-xx | 8.33 | 9.0 | 3 x 55.2 | 12 / 12.5 | 64 x 190 | 0.7 | 1 |
| PhMKPg400.3.10,00-A64 | 5343-48207-xx | 10 | 10.8 | 3 x 66.3 | 14.4 / 14.9 | 64 x 265 | 0.7 | 1 |
| PhMKPg400.3.12,50-A64 | 5343-48208-xx | 12.5 | 13.5 | 3 x 82.9 | 18 / 18.7 | 64 x 265 | 0.8 | 1 |
| PhMKPg400.3.10,00-A84 | 5343-48503-xx | 10 | 10.8 | 3 x 66.3 | 14.4 / 14.9 | 84.4 x 190 | 1.0 | 3 |
| PhMKPg400.3.12,50-A84 | 5343-48504-xx | 12.5 | 13.5 | 3 x 82.9 | 18 / 18.7 | 84.4 x 190 | 1.4 | 3 |
| PhMKPg400.3.15,00-A84 | 5343-48505-xx | 15 | 16.1 | 3 x 99.5 | 21.6 / 22.4 | 84.4 x 190 | 1.4 | 3 |
| PhMKPg400.3.16,70-A84 | 5343-48506-xx | 16.7 | 18.0 | 3 x 110.7 | 24.1 / 25.0 | 84.4 x 265 | 1.4 | 3 |
| PhMKPg400.3.20,00-A84 | 5343-48507-xx | 20 | 21.5 | 3 x 132.6 | 28.8 / 30.0 | 84.4 x 265 | 1.4 | 3 |
| PhMKPg400.3.25,00-A84 | 5343-48508-xx | 25 | 26.9 | 3 x 165.8 | 36.1 / 37.4 | 84.4 x 265 | 1.5 | 3 |
| PhMKPg400.3.16,70-B116 | 5343-47212-xx | 16.7 | 18.0 | 3 x 110.7 | 24.1 / 25.0 | 116 x 160 | 1.5 | 4 |
| PhMKPg400.3.20,00-B116 | 5343-47213-xx | 20 | 21.5 | 3 x 132.6 | 28.8 / 29.9 | 116 x 160 | 1.6 | 4 |
| PhMKPg400.3.25,00-B116 | 5343-47215-xx | 25 | 26.9 | 3 x 165.8 | 36.1 / 37.4 | 116 x 190 | 1.9 | 4 |
| PhMKPg400.3.30,00-B136 | 5343-47500-xx | 30 | 32.3 | 3 x 198.9 | 43.3 / 44.9 | 136 x 190 | 2.0 | 5 |

Notes

- Other voltage ratings, outputs, and frequencies upon request. All PhMKP-type capacitors may be also be applied in 60 Hz networks, output and current will, however, be 20 % higher in these cases (i.e. additional thermal load and therefore, a lower class of temperature must be taken into account)

⁽¹⁾ Version no. xx may differ as it respects small changes, e.g. on the label



3-PHASE CAPACITORS

IP20, DRY

| RATED VOLTAGE 440 V, 50 Hz, DELTA CONNECTION, UL / ULC | | | | | | | | |
|--|----------------------------|-------------------------|-------------------------|-----------------|-------------------------------|---------------------------------------|--------------|----------------|
| CAN BE USED ALSO FOR 415 V | | | | | | | | |
| TYPE | ARTICLE NO. ⁽¹⁾ | OUTPUT kvar 440 V | OUTPUT kvar 415 V | CAP. μ F | CURRENT A 440 V / 415 V | DIMENSIONS \varnothing x H mm | WEIGHT kg | DRAWING NO. |
| PhMKPg440.3.02,50-A64 | 5343-48222-xx | 2.5 | 2.2 | 3 x 13.7 | 3.3 / 3.1 | 64 x 190 | 0.6 | 1 |
| PhMKPg440.3.05,00-A64 | 5343-48209-xx | 5 | 4.4 | 3 x 27.4 | 6.6 / 6.1 | 64 x 190 | 0.6 | 1 |
| PhMKPg440.3.08,33-A64 | 5343-48210-xx | 8.33 | 7.4 | 3 x 45.7 | 10.9 / 10.3 | 64 x 190 | 0.6 | 1 |
| PhMKPg440.3.10,00-A64 | 5343-48211-xx | 10 | 8.9 | 3 x 54.8 | 13.1 / 12.4 | 64 x 265 | 0.8 | 1 |
| PhMKPg440.3.11,20-A64 | 5343-48212-xx | 11.2 | 10 | 3 x 61.4 | 14.7 / 13.9 | 64 x 265 | 0.8 | 1 |
| PhMKPg440.3.12,50-A64 | 5343-48213-xx | 12.5 | 11.1 | 3 x 68.5 | 16.4 / 15.4 | 64 x 265 | 0.8 | 1 |
| PhMKPg440.3.14,00-A64 | 5343-48214-xx | 14 | 12.5 | 3 x 76.7 | 18.4 / 17.4 | 64 x 265 | 1.0 | 1 |
| PhMKPg440.3.12,50-A84 | 5343-48509-xx | 12.5 | 11.1 | 3 x 68.5 | 16.4 / 15.5 | 84.4 x 190 | 1.0 | 3 |
| PhMKPg440.3.14,10-A84 | 5343-48510-xx | 14.1 | 12.5 | 3 x 77.0 | 18.5 / 17.5 | 84.4 x 190 | 1.1 | 3 |
| PhMKPg440.3.15,00-A84 | 5343-48511-xx | 15 | 13.3 | 3 x 82.2 | 19.7 / 18.6 | 84.4 x 190 | 1.1 | 3 |
| PhMKPg440.3.16,90-A84 | 5343-48512-xx | 16.9 | 15 | 3 x 92.6 | 22.2 / 20.9 | 84.4 x 190 | 1.2 | 3 |
| PhMKPg440.3.18,80-A84 | 5343-48513-xx | 18.8 | 16.67 | 3 x 103.0 | 24.7 / 23.3 | 84.4 x 265 | 1.3 | 3 |
| PhMKPg440.3.20,00-A84 | 5343-48514-xx | 20 | 17.8 | 3 x 109.6 | 26.2 / 24.8 | 84.4 x 265 | 1.4 | 3 |
| PhMKPg440.3.22,50-A84 | 5343-48515-xx | 22.5 | 20 | 3 x 123.3 | 29.5 / 27.8 | 84.4 x 265 | 1.4 | 3 |
| PhMKPg440.3.25,00-A84 | 5343-48516-xx | 25 | 22.2 | 3 x 137.0 | 32.8 / 30.9 | 84.4 x 265 | 1.5 | 3 |
| PhMKPg440.3.28,10-A84 | 5343-48517-xx | 28.1 | 25 | 3 x 154.0 | 36.9 / 34.8 | 84.4 x 265 | 1.5 | 3 |
| PhMKPg440.3.30,00-A84 | 5343-48518-xx | 30 | 26.7 | 3 x 164.4 | 39.4 / 37.1 | 84.4 x 340 | 1.8 | 3 |
| PhMKPg440.3.14,10-B116 | 5343-47269-xx | 14.1 | 12.5 | 3 x 77.0 | 18.5 / 17.5 | 116 x 160 | 1.0 | 4 |
| PhMKPg440.3.18,80-B116 | 5343-47217-xx | 18.8 | 16.67 | 3 x 103.0 | 24.7 / 23.3 | 116 x 160 | 1.5 | 4 |
| PhMKPg440.3.20,00-B116 | 5343-47218-xx | 20 | 17.8 | 3 x 109.6 | 26.2 / 24.8 | 116 x 160 | 1.6 | 4 |
| PhMKPg440.3.22,50-B116 | 5343-47219-xx | 22.5 | 20 | 3 x 123.3 | 29.5 / 27.8 | 116 x 160 | 1.6 | 4 |
| PhMKPg440.3.25,00-B116 | 5343-47220-xx | 25 | 22.2 | 3 x 137.0 | 32.8 / 30.9 | 116 x 190 | 1.7 | 4 |
| PhMKPg440.3.28,10-B116 | 5343-47205-xx | 28.1 | 25 | 3 x 154.0 | 36.9 / 34.8 | 116 x 190 | 1.6 | 4 |
| PhMKPg440.3.30,00-B136 | 5343-47501-xx | 30 | 26.7 | 3 x 164.4 | 39.4 / 37.1 | 136 x 190 | 1.9 | 5 |
| PhMKPg440.3.33,00-B136 | 5343-47502-xx | 33 | 29.4 | 3 x 180.9 | 43.3 / 40.9 | 136 x 190 | 2.0 | 5 |

Notes

- Other voltage ratings, outputs, and frequencies upon request. All PhMKP-type capacitors may be also be applied in 60 Hz networks, output and current will, however, be 20 % higher in these cases (i.e. additional thermal load and therefore, a lower class of temperature must be taken into account)
- (1) Version no. xx may differ as it respects small changes, e.g. on the label



3-PHASE CAPACITORS

IP20, DRY

| RATED VOLTAGE 525 V, 50 Hz, DELTA CONNECTION, UL / ULC | | | | | | | | |
|--|----------------------------|-------------------------|-------------------------|------------|-------------------------------|---------------------------|--------------|----------------|
| CAN BE USED ALSO FOR 480 V | | | | | | | | |
| TYPE | ARTICLE NO. ⁽¹⁾ | OUTPUT kvar 525 V | OUTPUT kvar 480 V | CAP. µF | CURRENT A 525 V / 480 V | DIMENSIONS Ø x H mm | WEIGHT kg | DRAWING NO. |
| PhMKPg525.3.03,00-A64 | 5343-48215-xx | 3 | 2.5 | 3 x 11.5 | 3.3 / 3.0 | 64 x 190 | 0.6 | 1 |
| PhMKPg525.3.05,00-A64 | 5343-48216-xx | 5 | 4.2 | 3 x 19.2 | 5.5 / 5.0 | 64 x 190 | 0.6 | 1 |
| PhMKPg525.3.08,33-A64 | 5343-48217-xx | 8.33 | 7 | 3 x 32.1 | 9.2 / 8.4 | 64 x 190 | 0.6 | 1 |
| PhMKPg525.3.10,00-A64 | 5343-48218-xx | 10 | 8.33 | 3 x 38.5 | 11.0 / 10.1 | 64 x 265 | 0.7 | 1 |
| PhMKPg525.3.10,00-A84 | 5343-48519-xx | 10 | 8.33 | 3 x 38.5 | 11.0 / 10.1 | 84.4 x 190 | 0.8 | 3 |
| PhMKPg525.3.12,50-A84 | 5343-48520-xx | 12.5 | 10.4 | 3 x 48.1 | 13.7 / 12.6 | 84.4 x 190 | 1.0 | 3 |
| PhMKPg525.3.13,80-A84 | 5343-48521-xx | 13.8 | 11.5 | 3 x 53.1 | 15.2 / 13.8 | 84.4 x 190 | 1.0 | 3 |
| PhMKPg525.3.15,00-A84 | 5343-48522-xx | 15 | 12.5 | 3 x 57.7 | 16.5 / 15.0 | 84.4 x 190 | 1.2 | 3 |
| PhMKPg525.3.20,00-A84 | 5343-48523-xx | 20 | 16.7 | 3 x 77.0 | 22.0 / 20.1 | 84.4 x 265 | 1.3 | 3 |
| PhMKPg525.3.25,00-A84 | 5343-48524-xx | 25 | 20.9 | 3 x 96.2 | 27.5 / 25.1 | 84.4 x 265 | 1.5 | 3 |
| PhMKPg525.3.20,00-B116 | 5343-47266-xx | 20 | 16.7 | 3 x 77.0 | 22.0 / 20.1 | 116 x 160 | 1.4 | 4 |
| PhMKPg525.3.25,00-B116 | 5343-47227-xx | 25 | 20.9 | 3 x 96.2 | 27.5 / 25.1 | 116 x 190 | 1.5 | 4 |
| PhMKPg525.3.30,00-B116 | 5343-47267-xx | 30 | 25.1 | 3 x 115.4 | 33.0 / 30.2 | 116 x 230 | 2.0 | 4 |
| PhMKPg525.3.30,00-B136 | 5343-47503-xx | 30 | 25.1 | 3 x 115.4 | 33.0 / 30.2 | 136 x 190 | 1.8 | 5 |
| PhMKPg525.3.35,90-B116 | 5343-47271-xx | 35.9 | 30 | 3 x 138.2 | 39.5 / 36.1 | 116 x 265 | 2.1 | 4 |
| PhMKPg525.3.35,90-B136 | 5343-47504-xx | 35.9 | 30 | 3 x 138.2 | 39.5 / 36.1 | 136 x 230 | 2.1 | 5 |
| PhMKPg525.3.37,10-B116 | 5343-47272-xx | 37.1 | 31 | 3 x 142.8 | 40.8 / 37.3 | 116 x 265 | 2.2 | 4 |
| PhMKPg525.3.37,10-B136 | 5343-47505-xx | 37.1 | 31 | 3 x 142.8 | 40.8 / 37.3 | 136 x 230 | 2.2 | 5 |

Notes

- Other voltage ratings, outputs, and frequencies upon request. All PhMKP-type capacitors may be also be applied in 60 Hz networks, output and current will, however, be 20 % higher in these cases (i.e. additional thermal load and therefore, a lower class of temperature must be taken into account)
- ⁽¹⁾ Version no. xx may differ as it respects small changes, e.g. on the label



3-PHASE CAPACITORS

IP20, DRY

RATED VOLTAGE 660 V, 50 Hz, 64 / 84: DELTA CONNECTION, 116 / 136: STAR CONNECTION, UL / ULC UP TO 660 V

CAN BE USED ALSO FOR 690 V, FULL OVER VOLTAGE RANGE

| TYPE | ARTICLE NO. (1) | OUTPUT kvar 660 V | OUTPUT kvar 690 V | CAP. µF | CURRENT A 660 V / 690 V | DIMENSIONS Ø x H mm | WEIGHT kg | DRAWING NO. |
|------------------------|-----------------|-------------------------|-------------------------|------------|-------------------------------|---------------------------|--------------|----------------|
| PhMKPg660.3.05,00-A64 | 5343-48219-xx | 5 | 5.5 | 3 x 12.2 | 4.4 / 4.6 | 64 x 190 | 0.6 | 1 |
| PhMKPg660.3.08,33-A64 | 5343-48220-xx | 8.33 | 9.1 | 3 x 20.3 | 7.3 / 7.6 | 64 x 265 | 0.8 | 1 |
| PhMKPg660.3.08,33-A84 | 5343-48525-xx | 8.33 | 9.1 | 3 x 20.3 | 7.3 / 7.6 | 84.4 x 190 | 0.9 | 3 |
| PhMKPg660.3.10,00-A84 | 5343-48526-xx | 10 | 10.9 | 3 x 24.4 | 8.7 / 9.1 | 84.4 x 190 | 1.1 | 3 |
| PhMKPg660.3.12,50-A84 | 5343-48527-xx | 12.5 | 13.7 | 3 x 30.4 | 10.9 / 11.4 | 84.4 x 265 | 1.2 | 3 |
| PhMKPg660.3.15,00-A84 | 5343-48528-xx | 15 | 16.4 | 3 x 36.5 | 13.1 / 13.7 | 84.4 x 265 | 1.4 | 3 |
| PhMKPg660.3.16,70-A84 | 5343-48529-xx | 16.7 | 18.3 | 3 x 40.7 | 14.6 / 15.3 | 84.4 x 265 | 1.5 | 3 |
| PhMKPg660.3.20,00-A84 | 5343-48530-xx | 20 | 21.9 | 3 x 48.7 | 17.5 / 18.3 | 84.4 x 340 | 1.7 | 3 |
| PhMKPg660.3.22,90-A84 | 5343-48531-xx | 22.9 | 25 | 3 x 55.8 | 20 / 20.9 | 84.4 x 340 | 1.9 | 3 |
| PhMKPg660.2.12,50-B116 | 5343-47255-xx | 12.5 | 13.7 | 3 x 91.4 | 10.9 / 11.4 | 116 x 160 | 1.6 | 4 |
| PhMKPg660.2.15,00-B116 | 5343-47256-xx | 15 | 16.4 | 3 x 109.6 | 13.1 / 13.7 | 116 x 160 | 1.6 | 4 |
| PhMKPg660.2.16,70-B116 | 5343-47257-xx | 16.7 | 18.3 | 3 x 122.1 | 14.6 / 15.3 | 116 x 160 | 1.7 | 4 |
| PhMKPg660.2.20,00-B116 | 5343-47259-xx | 20 | 21.9 | 3 x 146.2 | 17.5 / 18.3 | 116 x 190 | 1.8 | 4 |
| PhMKPg660.2.22,90-B116 | 5343-47273-xx | 22.9 | 25 | 3 x 167.3 | 20 / 20.9 | 116 x 190 | 1.7 | 4 |
| PhMKPg660.2.25,00-B136 | 5343-47506-xx | 25 | 27.3 | 3 x 182.7 | 21.9 / 22.9 | 136 x 190 | 1.6 | 5 |
| PhMKPg660.2.30,00-B136 | 5343-47507-xx | 30 | 32.8 | 3 x 219.2 | 26.2 / 27.4 | 136 x 230 | 2.2 | 5 |

RATED VOLTAGE 690 V, 50 Hz, 64 / 84: DELTA CONNECTION, 116 / 136: STAR CONNECTION

CAN BE USED ALSO FOR 660 V

| TYPE | ARTICLE NO. (1) | OUTPUT kvar 690 V | OUTPUT kvar 660 V | CAP. µF | CURRENT A 690 V / 660 V | DIMENSIONS Ø x H mm | WEIGHT kg | DRAWING NO. |
|------------------------|-----------------|-------------------------|-------------------------|------------|-------------------------------|---------------------------|--------------|----------------|
| PhMKPg690.3.10,00-A64 | 5343-48221-xx | 10 | 9.1 | 3 x 22.3 | 8.4 / 8.0 | 64 x 265 | 0.9 | 1 |
| PhMKPg690.3.12,50-A84 | 5343-48532-xx | 12.5 | 11.4 | 3 x 27.9 | 10.5 / 10.0 | 84.4 x 265 | 1.1 | 3 |
| PhMKPg690.3.15,00-A84 | 5343-48533-xx | 15 | 13.7 | 3 x 33.4 | 12.5 / 12.0 | 84.4 x 265 | 1.3 | 3 |
| PhMKPg690.3.20,00-A84 | 5343-48534-xx | 20 | 18.3 | 3 x 44.6 | 16.7 / 16.0 | 84.4 x 340 | 1.6 | 3 |
| PhMKPg690.3.25,00-A84 | 5343-48535-xx | 25 | 22.9 | 3 x 55.7 | 20.9 / 20.0 | 84.4 x 340 | 1.9 | 3 |
| PhMKPg690.2.12,50-B116 | 5343-47274-xx | 12.5 | 11.4 | 3 x 83.6 | 10.5 / 10.0 | 116 x 160 | 1.2 | 4 |
| PhMKPg690.2.15,00-B116 | 5343-47275-xx | 15 | 13.7 | 3 x 100.3 | 12.5 / 12.0 | 116 x 160 | 1.3 | 4 |
| PhMKPg690.2.20,00-B116 | 5343-47276-xx | 20 | 18.3 | 3 x 133.7 | 16.7 / 16.0 | 116 x 190 | 1.5 | 4 |
| PhMKPg690.2.25,00-B116 | 5343-47277-xx | 25 | 22.9 | 3 x 167.3 | 20.9 / 20.0 | 116 x 190 | 1.6 | 4 |

Notes

- Other voltage ratings, outputs, and frequencies upon request. All PhMKPg-type capacitors may be also be applied in 60 Hz networks, output and current will, however, be 20 % higher in these cases (i.e. additional thermal load and therefore, a lower class of temperature must be taken into account)

(1) Version no. xx may differ as it respects small changes, e.g. on the label



1-PHASE CAPACITORS

OIL

| RATED VOLTAGE 230 V, 50 Hz, UL / ULC | | | | | | | | |
|--------------------------------------|-----------------|-------------|--------------|-----------|-----------------------------------|-----------|-------------|------------------|
| TYPE | ARTICLE NO. (1) | OUTPUT kvar | CAP. μ F | CURRENT A | DIMENSIONS \varnothing x H (mm) | WEIGHT kg | DRAWING NO. | PROTECTIVE CLASS |
| IP20 | | | | | | | | |
| PhMKP230.1.02,50-A64 | 5341-48342-xx | 2.5 | 150.0 | 10.9 | 64 x 140 | 0.6 | 1 | IP20 |
| PhMKP230.1.03,33-A64 | 5341-48323-xx | 3.33 | 200.4 | 14.5 | 64 x 190 | 0.7 | 1 | IP20 |
| PhMKP230.1.04,17-A64 | 5341-48324-xx | 4.17 | 251.0 | 18.1 | 64 x 190 | 0.8 | 1 | IP20 |
| IP00 | | | | | | | | |
| PhMKP230.1.05,00-A84 | 5341-48636-xx | 5 | 300.0 | 21.7 | 84.4 x 140 | 0.9 | 3 | IP20 |
| IP00 | | | | | | | | |
| PhMKP230.1.05,00-84 | 5341-44436-xx | 5 | 300.0 | 21.7 | 84.4 x 140 | 0.9 | 2 | IP00 |

| RATED VOLTAGE 400 V, 50 Hz, UL / ULC | | | | | | | | | |
|---|-----------------|-------------------|-------------------|--------------|-------------------------|---------------------------------|-----------|-------------|------------------|
| CAN BE USED ALSO FOR 415 V, FULL OVER VOLTAGE RANGE | | | | | | | | | |
| TYPE | ARTICLE NO. (1) | OUTPUT kvar 400 V | OUTPUT kvar 415 V | CAP. μ F | CURRENT A 400 V / 415 V | DIMENSIONS \varnothing x H mm | WEIGHT kg | DRAWING NO. | PROTECTIVE CLASS |
| IP20 | | | | | | | | | |
| PhMKP400.1.02,50-A64 | 5341-48325-xx | 2.5 | 2.7 | 49.7 | 6.3 / 6.5 | 64 x 82 | 0.3 | 1 | IP20 |
| PhMKP400.1.03,33-A64 | 5341-48326-xx | 3.33 | 3.6 | 66.2 | 8.3 / 8.6 | 64 x 109 | 0.4 | 1 | IP20 |
| PhMKP400.1.05,00-A64 | 5341-48327-xx | 5 | 5.4 | 99.5 | 12.5 / 13.0 | 64 x 140 | 0.5 | 1 | IP20 |
| PhMKP400.1.06,67-A64 | 5341-48328-xx | 6.67 | 7.2 | 132.7 | 16.7 / 17.3 | 64 x 190 | 0.7 | 1 | IP20 |
| PhMKP400.1.08,33-A64 | 5341-48329-xx | 8.33 | 9 | 165.7 | 20.8 / 21.6 | 64 x 190 | 0.8 | 1 | IP20 |
| PhMKP400.1.10,00-A64 | 5341-48330-xx | 10 | 10.8 | 198.9 | 25.0 / 25.9 | 64 x 240 | 0.9 | 1 | IP20 |
| IP00 | | | | | | | | | |
| PhMKP400.1.08,33-A84 | 5341-48637-xx | 8.33 | 9 | 165.7 | 20.8 / 21.6 | 84.4 x 140 | 0.9 | 3 | IP20 |
| PhMKP400.1.10,00-A84 | 5341-48638-xx | 10 | 10.8 | 198.9 | 25.0 / 25.9 | 84.4 x 140 | 1.0 | 3 | IP20 |
| PhMKP400.1.16,70-A84 | 5341-48639-xx | 16.7 | 18 | 332.2 | 41.7 / 43.3 | 84.4 x 240 | 1.3 | 3 | IP20 |
| IP00 | | | | | | | | | |
| PhMKP400.1.08,33-84 | 5341-44437-xx | 8.33 | 9 | 165.7 | 20.8 / 21.6 | 84.4 x 140 | 0.9 | 2 | IP00 |
| PhMKP400.1.10,00-84 | 5341-44438-xx | 10 | 10.8 | 198.9 | 25.0 / 25.9 | 84.4 x 140 | 1.0 | 2 | IP00 |
| PhMKP400.1.16,70-84 | 5341-44439-xx | 16.7 | 18 | 332.2 | 41.7 / 43.3 | 84.4 x 240 | 1.3 | 2 | IP00 |

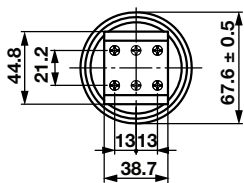
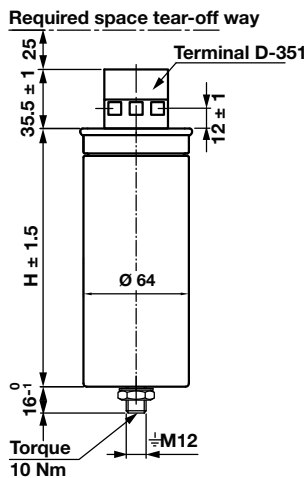
| RATED VOLTAGE 525 V, 50 Hz, UL / ULC | | | | | | | | | |
|--------------------------------------|-----------------|-------------------|-------------------|--------------|-------------------------|---------------------------------|-----------|-------------|------------------|
| CAN BE USED ALSO FOR 480 V | | | | | | | | | |
| TYPE | ARTICLE NO. (1) | OUTPUT kvar 525 V | OUTPUT kvar 480 V | CAP. μ F | CURRENT A 525 V / 480 V | DIMENSIONS \varnothing x H mm | WEIGHT kg | DRAWING NO. | PROTECTIVE CLASS |
| IP20 | | | | | | | | | |
| PhMKP525.1.05,00-A64 | 5341-48331-xx | 5 | 4.2 | 57.7 | 9.5 / 8.8 | 64 x 140 | 0.5 | 1 | IP20 |
| PhMKP525.1.08,33-A64 | 5341-48332-xx | 8.33 | 7.0 | 96.2 | 15.9 / 14.6 | 64 x 190 | 0.7 | 1 | IP20 |
| PhMKP525.1.10,00-A64 | 5341-48333-xx | 10 | 8.4 | 115.5 | 19.0 / 17.5 | 64 x 240 | 0.9 | 1 | IP20 |
| IP00 | | | | | | | | | |
| PhMKP525.1.16,70-A84 | 5341-48640-xx | 16.7 | 14.0 | 192.9 | 31.6 / 29.2 | 84.4 x 240 | 1.3 | 3 | IP20 |
| PhMKP525.1.20,00-A84 | 5341-48641-xx | 20 | 16.7 | 231.0 | 38.0 / 34.8 | 84.4 x 240 | 1.3 | 3 | IP20 |
| IP00 | | | | | | | | | |
| PhMKP525.1.16,70-84 | 5341-44440-xx | 16.7 | 14.0 | 192.9 | 31.6 / 29.2 | 84.4 x 240 | 1.3 | 2 | IP00 |
| PhMKP525.1.20,00-84 | 5341-44441-xx | 20 | 16.7 | 231.0 | 38.0 / 34.8 | 84.4 x 240 | 1.3 | 2 | IP00 |

Notes

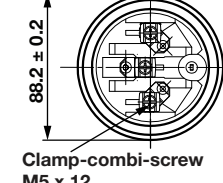
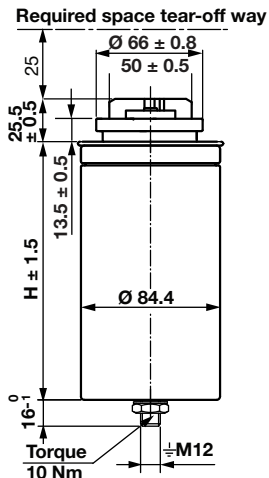
- Other voltage ratings, outputs, and frequencies upon request. All PhMKP-type capacitors may be also be applied in 60 Hz networks, output and current will, however, be 20 % higher in these cases (i.e. additional thermal load and therefore, a lower class of temperature must be taken into account)
- (1) Version no. xx may differ as it respects small changes, e.g. on the label



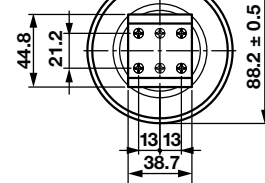
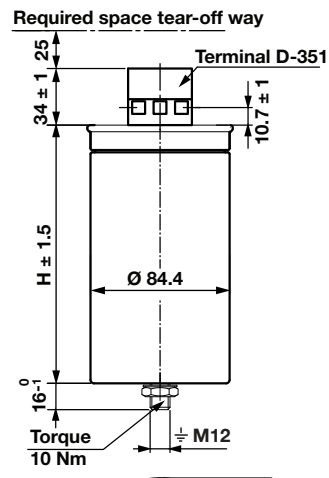
DIMENSIONS



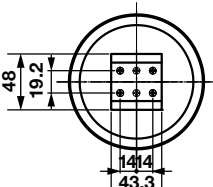
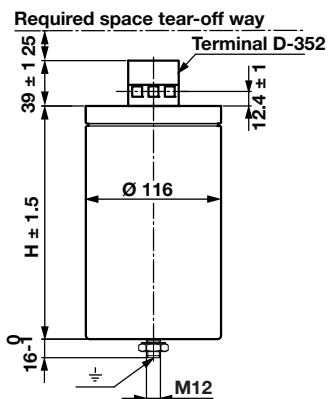
Drawing 1



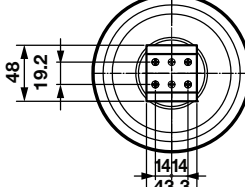
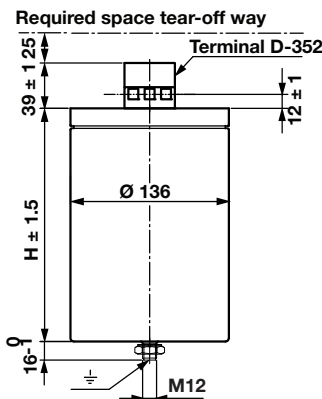
Drawing 2



Drawing 3



Drawing 4



Drawing 5

ORDERING INFORMATION

TECHNICAL UNITS

| | |
|-----------------------|------------------------------|
| Full cardboard boxes: | Ø 64 mm - 9 pcs per carton |
| | Ø 84.4 mm - 4 pcs per carton |
| | Ø 116 mm - 4 pcs per carton |
| | Ø 136 mm - 2 pcs per carton |



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Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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