

LOW VOLTAGE POWER CAPACITOR



Mikro's capacitor operates within a cylindrical aluminium case, designed for power factor correction in low-voltage applications such as motors, transformers, generators and supply cables. The cylindrical shape improves thermal response and simplifies installation while the capacitor itself is manufactured using metallised polypropylene film as the dielectric.

FEATURES

General industrial use

Improves power factor

Reduces line losses

Decreases voltage drop

Saves energy

Metallised Polypropylene film which has low losses

Compact design

Dry type aluminum cylinder

Self healing Technology

Overpressure disconnecter

Discharge and bleeding resistor included

Vertical and horizontal mounting position

Adhere to IEC 60831-1 and IEC 60831-2 standards

Long life

APPLICATIONS

It is dry capacitor manufactured using Metallised Polypropylene film capacitors acting. Contained in the Aluminium case. Which is used for both single phase and 3 phase, depending on the design of the user for power factor improvement values. Appropriate for use in industry and general use.

LOW VOLTAGE POWER CAPACITOR

TECHNICAL SPECIFICATION

| | |
|--------------------------------------|--|
| Type | Dry Type (Cylinder type) |
| Voltage Range | 230...525 V AC |
| Frequency | 50Hz or 60Hz |
| Power Range | 2.5kvar to 50kvar |
| Capacitor Losses | < 0.35 W/kvar |
| Total Losses with Discharge Resistor | < 1.0 W/kvar |
| Capacity Tolerance | -5% ~ 10% (at 20°C) |
| Max Overvoltage | Un + 10% (up to 8 hours daily) Un + 15% (up to 30 mins daily) Un + 20% (up to 5 mins monthly) Un + 30% (up to 1 mins monthly) |
| Max Overcurrent | 1.3 x In |
| Withstand Voltage | 2.15 x Un (10 seconds) |
| Connection | 3 phase (Single phase on request) |
| Insulation Level | 3/15kv |
| Dielectric | Metalized Polypropylene |
| Ambient Temp | -25°C ~ 55°C |
| Discharge | External discharge module |
| Cooling | Natural forced |
| Impregnation | Epoxy resin |
| Safety | Self healing technology Overpressure disconnecter |
| Installation Place | Indoor (Outdoor on request) |
| Applicable Standards | IEC60831-1, IEC60831-2 |

LOW VOLTAGE POWER CAPACITOR

ORDERING INFORMATION

| Part No. | Rated (kvar) | Cn (uF) | Current In (Amp) | Dimensions D*H (mm.) | Stud Screw |
|---|--------------|---------|------------------|----------------------|------------|
| DRY TYPE CAPACITOR CYLINDER (3 PHASE, 50Hz, 230V AC) | | | | | |
| MKC-235025KT | 2.5 | 150.4 | 6.3 | 63*165 | M12 |
| MKC-235050KT | 5 | 300.9 | 12.6 | 86*170 | M12 |
| MKC-235075KT | 7.5 | 451.3 | 18.8 | 86*230 | M12 |
| MKC-235100KT | 10 | 601.7 | 25.1 | 86*275 | M12 |
| MKC-235125KT | 12.5 | 752.2 | 31.4 | 86*275 | M12 |
| MKC-235150KT | 15 | 902.6 | 37.7 | 96*275 | M12 |
| MKC-235200KT | 20 | 1203.4 | 50.2 | 116*275 | M12 |
| MKC-235250KT | 25 | 1504.3 | 62.8 | 136*280 | M12 |
| MKC-235300KT | 30 | 1805.2 | 75.3 | 136*280 | M12 |
| DRY TYPE CAPACITOR CYLINDER (3 PHASE, 50Hz 380V AC) | | | | | |
| MKC-385025KT | 2.5 | 55.1 | 3.8 | 63*135 | M12 |
| MKC-385050KT | 5 | 110.2 | 7.6 | 86*140 | M12 |
| MKC-385075KT | 7.5 | 165.3 | 11.4 | 86*170 | M12 |
| MKC-385100KT | 10 | 220.4 | 15.2 | 86*230 | M12 |
| MKC-385125KT | 12.5 | 275.5 | 19 | 86*230 | M12 |
| MKC-385150KT | 15 | 330.7 | 22.8 | 86*275 | M12 |
| MKC-385200KT | 20 | 440.9 | 30.4 | 96*275 | M12 |
| MKC-385250KT | 25 | 551.1 | 38 | 116*275 | M12 |
| MKC-385300KT | 30 | 661.3 | 45.6 | 116*280 | M12 |
| MKC-385400KT | 40 | 881.7 | 60.8 | 136*280 | M12 |
| MKC-385500KT | 50 | 1102.2 | 76 | 136*355 | M12 |
| DRY TYPE CAPACITOR CYLINDER (3 PHASE, 50Hz, 400V AC) | | | | | |
| MKC-405025KT | 2.5 | 49.7 | 3.6 | 63*135 | M12 |
| MKC-405050KT | 5 | 99.5 | 7.2 | 86*140 | M12 |
| MKC-405075KT | 7.5 | 149.2 | 10.8 | 86*170 | M12 |
| MKC-405100KT | 10 | 198.9 | 14.4 | 86*230 | M12 |
| MKC-405125KT | 12.5 | 248.7 | 18.0 | 86*230 | M12 |
| MKC-405150KT | 15 | 298.4 | 21.7 | 86*275 | M12 |
| MKC-405200KT | 20 | 397.9 | 28.9 | 96*275 | M12 |
| MKC-405250KT | 25 | 497.4 | 36.1 | 116*275 | M12 |
| MKC-405300KT | 30 | 596.8 | 43.3 | 116*280 | M12 |
| MKC-405400KT | 40 | 795.8 | 57.7 | 136*280 | M12 |
| MKC-405500KT | 50 | 994.7 | 72.2 | 136*355 | M12 |

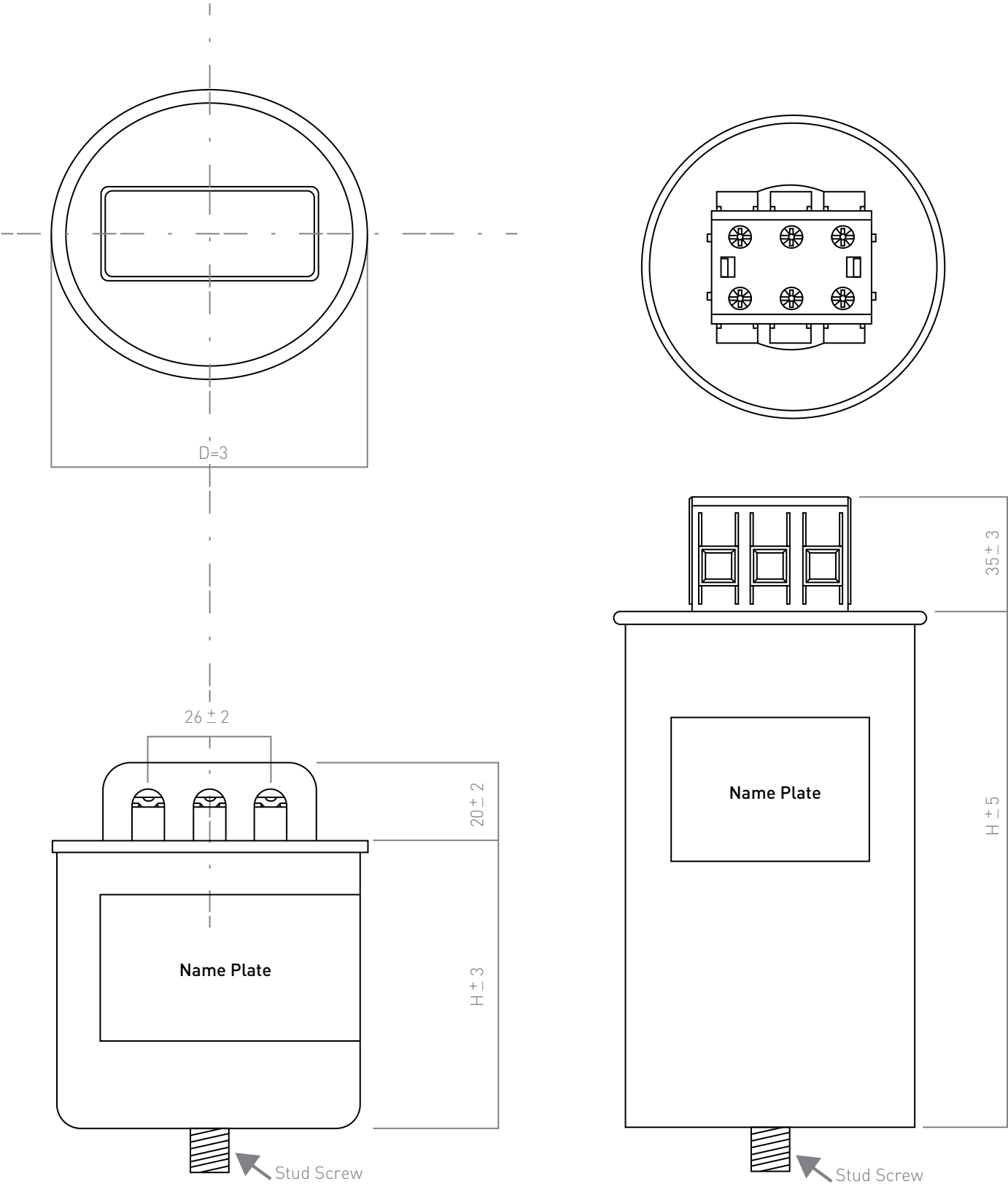
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| Part No. | Rated (kvar) | Cn (uF) | Current In (Amp) | Dimensions D*H (mm.) | Stud Screw |
|---|--------------|---------|------------------|----------------------|------------|
| DRY TYPE CAPACITOR CYLINDER (3 PHASE, 50Hz, 440V AC) | | | | | |
| MKC-445025KT | 2.5 | 41.1 | 3.3 | 63*135 | M12 |
| MKC-445050KT | 5 | 82.2 | 6.6 | 63*165 | M12 |
| MKC-445100KT | 10 | 164.4 | 13.1 | 86*170 | M12 |
| MKC-445125KT | 12.5 | 205.5 | 16.4 | 86*230 | M12 |
| MKC-445150KT | 15 | 246.6 | 19.7 | 86*230 | M12 |
| MKC-445200KT | 20 | 328.8 | 26.2 | 86*275 | M12 |
| MKC-445250KT | 25 | 411.0 | 32.8 | 96*275 | M12 |
| MKC-445300KT | 30 | 493.2 | 39.4 | 116*275 | M12 |
| MKC-445400KT | 40 | 657.7 | 52.5 | 136*280 | M12 |
| MKC-445500KT | 50 | 822.1 | 65.6 | 136*280 | M12 |
| DRY TYPE CAPACITOR CYLINDER (3 PHASE, 50Hz, 480V AC) | | | | | |
| MKC-485025KT | 2.5 | 34.5 | 3.0 | 63*135 | M12 |
| MKC-485050KT | 5 | 69.1 | 6.0 | 86*140 | M12 |
| MKC-485075KT | 7.5 | 103.6 | 9.0 | 86*170 | M12 |
| MKC-485100KT | 10 | 138.2 | 12.0 | 86*230 | M12 |
| MKC-485125KT | 12.5 | 172.7 | 15.0 | 86*230 | M12 |
| MKC-485150KT | 15 | 207.2 | 18.0 | 86*275 | M12 |
| MKC-485200KT | 20 | 276.3 | 24.1 | 96*275 | M12 |
| MKC-485250KT | 25 | 345.4 | 30.1 | 116*275 | M12 |
| MKC-485300KT | 30 | 414.5 | 36.1 | 116*275 | M12 |
| MKC-485400KT | 40 | 552.6 | 48.1 | 136*280 | M12 |
| MKC-485500KT | 50 | 690.8 | 60.1 | 136*355 | M12 |
| DRY TYPE CAPACITOR CYLINDER (3 PHASE, 50Hz, 525V AC) | | | | | |
| MKC-525025KT | 2.5 | 28.9 | 2.7 | 63*135 | M12 |
| MKC-525050KT | 5 | 57.7 | 5.5 | 86*140 | M12 |
| MKC-525075KT | 7.5 | 86.6 | 8.2 | 86*170 | M12 |
| MKC-525100KT | 10 | 115.5 | 11.0 | 86*230 | M12 |
| MKC-525125KT | 12.5 | 144.4 | 13.7 | 86*230 | M12 |
| MKC-525150KT | 15 | 173.2 | 16.5 | 86*275 | M12 |
| MKC-525200KT | 20 | 231.0 | 22.0 | 96*275 | M12 |
| MKC-525250KT | 25 | 288.7 | 27.5 | 116*275 | M12 |
| MKC-525300KT | 30 | 346.5 | 33.0 | 116*275 | M12 |
| MKC-525400KT | 40 | 461.9 | 44.0 | 136*280 | M12 |
| MKC-525500KT | 50 | 577.4 | 55.0 | 136*355 | M12 |

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CASE DIMENSIONS



Please see the Ordering Information for the Dimension D, H and Stud Screw size