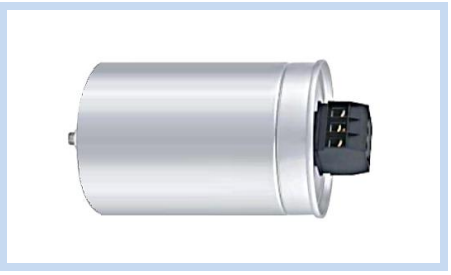
# Power Film Capacitor, AC Filter
# Three Phase Cylindrical Aluminum Can
# UL 810 Safety Class

PF-A3 Series

MERITEK

## FEATURE

- Self-Healing Property
- High Ripple Current Capability
- Optimized AC Voltage Performance
- Overpressure Disconnector Device
- Rigid Construction for 3 Phases, Delta Connection
- Applications: Renewable Energies Inverters, UPS, Battery Charger, Harmonic Filter, Power Factory Correction (PFC)
- In Accordance with Safety Class of UL 810 standard



RoHS

## ELECTRICAL CHARACTERISTICS

| Item | Characteristic | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Operating Temperature | -40~+85°C | | | | | | | |
| Climatic Category | 40/85/56 IEC60068-1 | | | | | | | |
| Capacitance Range | 3*8uF ~3*335uF, ±5%(J), ±10%(K) at +25°C | | | | | | | |
| AC Operating Voltage | 230 | 400 | 440 | 480 | 525 | 660 | 690 | 850 |
| Max Ripple Current | 16~50 | 16~50 | 16~50 | 12~50 | 16~50 | 16~20 | 16~30 | 16~60 |
| Dissipation Factor | ≤0.002 (0.2%) at 100Hz | | | | | | | |
| Insulation Resistance | Ris*C ≥ 5,000sec | | | | at 100 Vdc, 60 sec, at +25°C ±5°C° | | | |

## PART NUMBERING SYSTEM

| PF | 556K | 85 | J | DF6E | A3 |
|---|---|---|---|---|---|
| (1) | (2) | (3) | (4) | (5) | (6) |

| No | Item | Code | Description | |
|---|---|---|---|---|
| (1) | Product Code | PF | Metalized PP Film Capacitor, Cylindrical Aluminum Can tyoe | |
| (2) | Nominal Capacitance | 556K | 55.7 µF ± 10%(K) | First two digits: Significant, Third: Multiplier |
| (3) | Rated Voltage | 85 | 85: 850VAC | First two digits of Operating AC Voltage |
| (4) | Size Code | J | J: DxH: 116 x 230mm | See size code table below |
| (5) | Option Code | DF6E | D: Three Phase Screw, F: 16.5mm, 6: M6, E: No Stud, see the option table below | |
| (6) | Series Code | A3 | AC Filter Capacitor Series, Three Phase Cylindrical Aluminum Can, UL 810 | |

| Terminal type | Terminal Space | Terminal Size | Stud type |
|---|---|---|---|
| D: Three Phase Screw | E: 15mm, F: 16.5mm, X:35mm | 5: M5, 6: M6, 8: M8 | D: Stud M12*16mm<br>E: No Stud |

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## ELECTRICAL SPECIFICATION

| Rated Voltage | CAP | OD±1 | | H±2 | | dv/dt | Surge Current | Irms MAX 40°C | No of Pin | Part Number |
|---|---|---|---|---|---|---|---|---|---|---|
| (VAC) | (uF) | mm | inch | mm | inch | (V/us) | (A) | (A) | | |
| **230** | 3x200.6 | 86.0 | -3.4 | 275.0 | -10.8 | 25 | 5021 | 25.1 | 3 | PF207%23xDxxxA3 |
| **230** | 3x200.6 | 116.0 | -4.6 | 160.0 | -6.3 | 25 | 5021 | 25.1 | 3 | PF207%23xDxxxA3 |
| **230** | 3x250.7 | 86.0 | -3.4 | 275.0 | -10.8 | 25 | 6276 | 31.4 | 3 | PF257%23xDxxxA3 |
| **230** | 3x250.7 | 116.0 | -4.6 | 200.0 | -7.9 | 25 | 6276 | 31.4 | 3 | PF257%23xDxxxA3 |
| **230** | 3x300.9 | 86.0 | -3.4 | 350.0 | -13.8 | 25 | 7531 | 37.7 | 3 | PF307%23xDxxxA3 |
| **230** | 3x300.9 | 116.0 | -4.6 | 200.0 | -7.9 | 25 | 7531 | 37.7 | 3 | PF307%23xDxxxA3 |
| **230** | 3x335.0 | 116.0 | -4.6 | 230.0 | -9.1 | 25 | 8384 | 41.9 | 3 | PF337%23xDxxxA3 |
| **400** | 3x66.3 | 86.0 | -3.4 | 200.0 | -7.9 | 44 | 2887 | 14.4 | 3 | PF666%40xDxxxA3 |
| **400** | 3x82.9 | 86.0 | -3.4 | 200.0 | -7.9 | 44 | 3609 | 18.0 | 3 | PF836%40xDxxxA3 |
| **400** | 3x99.5 | 86.0 | -3.4 | 275.0 | -10.8 | 44 | 4330 | 21.7 | 3 | PF107%40xDxxxA3 |
| **400** | 3x110.7 | 86.0 | -3.4 | 275.0 | -10.8 | 44 | 4821 | 24.1 | 3 | PF117%40xDxxxA3 |
| **400** | 3x110.7 | 116.0 | -4.6 | 160.0 | -6.3 | 44 | 4821 | 24.1 | 3 | PF117%40xDxxxA3 |
| **400** | 3x132.6 | 86.0 | -3.4 | 275.0 | -10.8 | 44 | 5774 | 28.9 | 3 | PF137%40xDxxxA3 |
| **400** | 3x132.6 | 116.0 | -4.6 | 200.0 | -7.9 | 44 | 5774 | 28.9 | 3 | PF137%40xDxxxA3 |
| **400** | 3x165.8 | 86.0 | -3.4 | 350.0 | -13.8 | 44 | 7217 | 36.1 | 3 | PF167%40xDxxxA3 |
| **400** | 3x165.8 | 116.0 | -4.6 | 200.0 | -7.9 | 44 | 7217 | 36.1 | 3 | PF167%40xDxxxA3 |
| **400** | 3x198.9 | 136.0 | -5.4 | 200.0 | -7.9 | 44 | 8661 | 43.3 | 3 | PF207%40xDxxxA3 |
| **440** | 3*46 | 86.0 | -3.4 | 160.0 | -6.3 | 48 | 2178 | 10.9 | 3 | PF466%44xDxxxA3 |
| **440** | 3*68.5 | 86.0 | -3.4 | 200.0 | -7.9 | 48 | 3280 | 16.4 | 3 | PF696%44xDxxxA3 |
| **440** | 3*82.2 | 86.0 | -3.4 | 200.0 | -7.9 | 48 | 3937 | 19.7 | 3 | PF836%44xDxxxA3 |
| **440** | 3*109 | 86.0 | -3.4 | 275.0 | -10.8 | 48 | 5249 | 26.2 | 3 | PF117%44xDxxxA3 |
| **440** | 3*109 | 116.0 | -4.6 | 160.0 | -6.3 | 48 | 5249 | 26.2 | 3 | PF117%44xDxxxA3 |
| **440** | 3*123.3 | 86.0 | -3.4 | 275.0 | -10.8 | 48 | 5905 | 29.5 | 3 | PF127%44xDxxxA3 |
| **440** | 3*123.3 | 116.0 | -4.6 | 200.0 | -7.9 | 48 | 5905 | 29.5 | 3 | PF127%44xDxxxA3 |
| **440** | 3*137 | 116.0 | -4.6 | 200.0 | -7.9 | 48 | 6561 | 32.8 | 3 | PF147%44xDxxxA3 |
| **440** | 3*156 | 116.0 | -4.6 | 200.0 | -7.9 | 48 | 7375 | 36.9 | 3 | PF157%44xDxxxA3 |
| **440** | 3*164.4 | 86.0 | -3.4 | 350.0 | -13.8 | 48 | 7873 | 39.4 | 3 | PF167%44xDxxxA3 |
| **440** | 3*164.4 | 116.0 | -4.6 | 200.0 | -7.9 | 48 | 7873 | 39.4 | 3 | PF167%44xDxxxA3 |
| **480** | 3x40 | 86.0 | -3.4 | 200.0 | -7.9 | 52 | 2093 | 10.5 | 3 | PF406%48xDxxxA3 |
| **480** | 3x60 | 86.0 | -3.4 | 275.0 | -10.8 | 52 | 3127 | 15.6 | 3 | PF606%48xDxxxA3 |
| **480** | 3x80 | 116.0 | -4.6 | 200.0 | -7.9 | 52 | 4186 | 20.9 | 3 | PF806%48xDxxxA3 |
| **480** | 3x120 | 116.0 | -4.6 | 275.0 | -10.8 | 52 | 6255 | 31.3 | 3 | PF127%48xDxxxA3 |
| **525** | 3x38.5 | 86.0 | -3.4 | 200.0 | -7.9 | 57 | 2199 | 11.0 | 3 | PF396%52xDxxxA3 |
| **525** | 3x48.1 | 86.0 | -3.4 | 200.0 | -7.9 | 57 | 2749 | 13.7 | 3 | PF486%52xDxxxA3 |
| **525** | 3x58 | 86.0 | -3.4 | 230.0 | -9.1 | 57 | 3299 | 16.5 | 3 | PF586%52xDxxxA3 |
| **525** | 3x77 | 86.0 | -3.4 | 275.0 | -10.8 | 57 | 4399 | 22 | 3 | PF776%52xDxxxA3 |
| **525** | 3*96 | 86.0 | -3.4 | 350.0 | -13.8 | 57 | 5499 | 27.5 | 3 | PF966%52xDxxxA3 |
| **525** | 3*96 | 116.0 | -4.6 | 200.0 | -7.9 | 57 | 5499 | 27.5 | 3 | PF966%52xDxxxA3 |
| **525** | 3*115.4 | 136.0 | -5.4 | 200.0 | -7.9 | 57 | 6598 | 33.0 | 3 | PF117%52xDxxxA3 |
| **660** | 3x20.3 | 86.0 | -3.4 | 200.0 | -7.9 | 72 | 1457 | 7.3 | 3 | PF206%66xDxxxA3 |
| **660** | 3x24.4 | 86.0 | -3.4 | 200.0 | -7.9 | 72 | 1750 | 8.7 | 3 | PF256%66xDxxxA3 |
| **660** | 3x30.4 | 86.0 | -3.4 | 230.0 | -9.1 | 72 | 2187 | 10.9 | 3 | PF306%66xDxxxA3 |
| **660** | 3x36.5 | 96.0 | -3.8 | 230.0 | -9.1 | 72 | 2624 | 13.1 | 3 | PF366%66xDxxxA3 |
| **660** | 3x48.7 | 86.0 | -3.4 | 350.0 | -13.8 | 72 | 3499 | 17.5 | 3 | PF496%66xDxxxA3 |
| **690** | 3x27.9 | 86.0 | -3.4 | 230.0 | -9.1 | 75 | 2092 | 10.5 | 3 | PF286%69xDxxxA3 |
| **690** | 3x33.4 | 96.0 | -3.8 | 230.0 | -9.1 | 75 | 2510 | 12.6 | 3 | PF336%69xDxxxA3 |
| **690** | 3x44.6 | 86.0 | -3.4 | 350.0 | -13.8 | 75 | 3347 | 16.7 | 3 | PF456%69xDxxxA3 |
| **690** | 3x55.7 | 86.0 | -3.4 | 350.0 | -13.8 | 75 | 4184 | 20.9 | 3 | PF566%69xDxxxA3 |
| **850** | 3X8 | 76.0 | -3.0 | 164.0 | 6.5 | 120 | 960 | 20.0 | 3 | PF805%85xDxxxA3 |
| **850** | 3X16 | 86.0 | -3.4 | 200.0 | 7.9 | 120 | 1920 | 25.0 | 3 | PF166%85xDxxxA3 |
| **850** | 3X25 | 96.0 | -3.8 | 230.0 | 9.1 | 100 | 2500 | 40.0 | 3 | PF256%85xDxxxA3 |
| **850** | 3X37.5 | 116.0 | -4.6 | 230.0 | 9.1 | 100 | 3800 | 45.0 | 3 | PF376%85xDxxxA3 |
| **850** | 3X41.5 | 116.0 | -4.6 | 230.0 | 9.1 | 100 | 4200 | 50.0 | 3 | PF416%85xDxxxA3 |
| **850** | 3X49 | 136.0 | -5.4 | 230.0 | 9.1 | 100 | 4900 | 50.0 | 3 | PF496%85xDxxxA3 |
| **850** | 3X55.7 | 136.0 | -5.4 | 230.0 | 9.1 | 100 | 5600 | 50.0 | 3 | PF556%85xDxxxA3 |

Note: % denoted to tolerance: ±5%(J), ±10%(K) at 25°C, xxx denoted to option code, see the parts number system

## DIMENSIONS

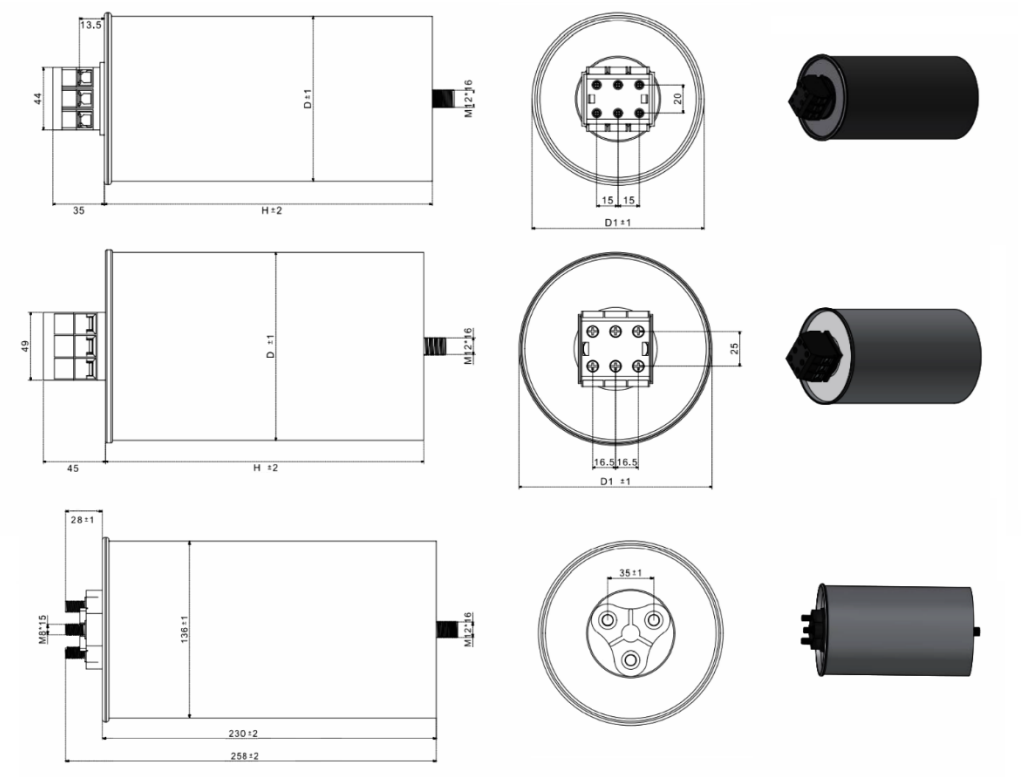


**Fig.1**

**Fig.2**

**Fig.3**

## CASE CODE

| Case Code | Fig No | D±1mm | | D1±1mm | | H±2mm | |
|---|---|---|---|---|---|---|---|
| | | mm | inch | mm | inch | mm | inch |
| **A** | **1** | 76 | (2.99) | 80 | (3.15) | 164 | (6.46) |
| **B** | **1** | 86 | (3.39) | 90 | (3.54) | 160 | (6.30) |
| **C** | **1** | 86 | (3.39) | 90 | (3.54) | 200 | (7.87) |
| **D** | **1** | 86 | (3.39) | 90 | (3.54) | 230 | (9.06) |
| **E** | **1** | 86 | (3.39) | 90 | (3.54) | 275 | (10.83) |
| **F** | **1** | 86 | (3.39) | 90 | (3.54) | 350 | (13.78) |
| **G** | **1** | 96 | (3.78) | 101 | (3.98) | 230 | (9.06) |
| **H** | **1** | 116 | (4.57) | 121 | (4.76) | 160 | (6.30) |
| **I** | **1** | 116 | (4.57) | 121 | (4.76) | 200 | (7.87) |
| **J** | **1** | 116 | (4.57) | 121 | (4.76) | 230 | (9.06) |
| **K** | **1** | 116 | (4.57) | 121 | (4.76) | 275 | (10.83) |
| **L** | **1,2** | 136 | (5.35) | 142 | (5.59) | 200 | (7.87) |
| **M** | **1,2,3** | 136 | (5.35) | 142 | (5.59) | 230 | (9.06) |

*Specifications subject to change without notice.