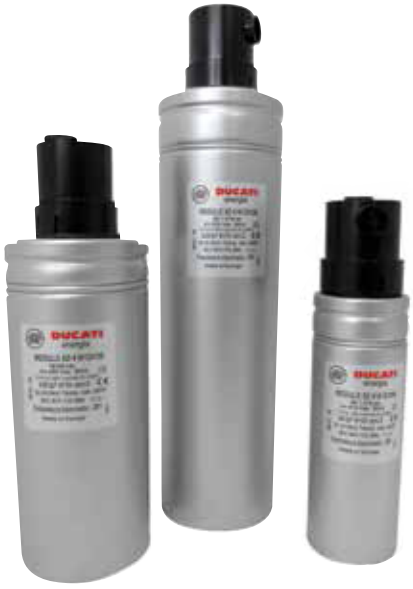
# MODULO XD MINI
## Three phase capacitors

MODULO XD Mini – COMPACT PERFORMANCE capacitors integrate the excellent MODULO XD technology with an innovative mechanical construction, which has been optimized for the 0,5 ÷ 10 kVAr/400 ÷ 550 V power/voltage ranges. Thanks to their mechanical construction and a particularly effective dry-resin impregnation process, MODULO XD mini capacitors deliver excellent performance in a very compact package. The faston connections, integrated discharge resistors and IP20 protection cap simplify their installation and maintenance in every type of application.



General Characteristics

| | |
|---|---|
| Power Range | 0.5 ÷10 kVAr |
| Voltage range | 400 ÷ 550 V |
| Rated frequency | 50 Hz/60 Hz |
| Capacitance tolerance | -5 +10% |
| Duty | Continuous |
| Dielectric losses | ≤ 0.2 W/kVAr |
| Life expectancya | ≥110000h –25/D<br>≥130000h –25/C |
| Max dV/dt | 100 V /µs |
| Temperature class | -25/D |
| Max overload In | 3 x $I_n$ |
| Max inrush current | 200 $I_n$ |
| Terminals | Faston 6.3x0.8 mm |
| Protection rating | IP20 (with included protection cap) |
| Internal connection | Delta |
| Discharge resistance | Internal (50 V after 60") |
| Impregnating material | Eco-friendly resin |
| Altitude | ≤ 4000 m s.l.m. |
| Storage Temperature | –40 +80 °C |
| Test voltage (AC) between terminals | 2.15 Un x 2" |
| Test voltage between terminals and case | 3 kV x 10" |
| Standards | IEC 831 - 1/2 |

| Un (V) | Qn (kVAr) 50 Hz | In (A) | Cn (µF) | DxH (mm) | Pcs x box | Part n. 416.12. | Dim. Box |
|---|---|---|---|---|---|---|---|
| | 0.5 | 0.7 | 3x3.32 | 50x150 | 21 | 1010 | E |
| | 1 | 1.4 | 3x6.63 | 50x150 | 21 | 1020 | E |
| 400 | 1.5 | 2.2 | 3x9.95 | 50x150 | 21 | 1040 | E |
| | 2.5 | 3.6 | 3x16.6 | 60x150 | 18 | 1060 | E |
| | 5 | 7.2 | 3x33.2 | 75x175 | 6 | 1130 | C |
| | 7.5 | 10.8 | 3x49.7 | 75x265 | 12 | 1150 | D |
| | 10 | 14.4 | 3x66.3 | 75x265 | 12 | 1170 | D |
| | 0.5 | 0.7 | 3x3.08 | 50x150 | 21 | 2010 | E |
| | 1 | 1.4 | 3x6.16 | 50x150 | 21 | 2020 | E |
| | 1.5 | 2.1 | 3x9.24 | 50x150 | 21 | 2040 | E |
| 415 | 2.5 | 3.5 | 3x15.4 | 60x150 | 18 | 2060 | E |
| | 5 | 7.0 | 3x30.8 | 75x175 | 6 | 2130 | C |
| | 7.5 | 10.4 | 3x46.2 | 75x265 | 12 | 2150 | D |
| | 10 | 13.9 | 3x61.6 | 75x265 | 12 | 2170 | D |
| | 0.5 | 0.7 | 3x2.74 | 50x150 | 21 | 3010 | E |
| | 1 | 1.3 | 3x5.48 | 50x150 | 21 | 3020 | E |
| | 1.5 | 2.0 | 3x8.22 | 50x150 | 21 | 3040 | E |
| 440 | 2.5 | 3.3 | 3x13.7 | 60x150 | 18 | 3060 | E |
| | 5 | 6.6 | 3x27.4 | 75x175 | 6 | 3130 | C |
| | 7.5 | 9.8 | 3x41.1 | 75x265 | 12 | 3150 | D |
| | 10 | 13.1 | 3x54.8 | 75x265 | 12 | 3170 | D |
| | 0.5 | 0.6 | 3x2.62 | 50x150 | 21 | 4010 | E |
| | 1 | 1.3 | 3x5.24 | 50x150 | 21 | 4020 | E |
| | 1.5 | 1.9 | 3x7.86 | 50x150 | 21 | 4040 | E |
| 450 | 2.5 | 3.2 | 3x13.1 | 60x150 | 18 | 4060 | E |
| | 5 | 6.4 | 3x26.2 | 75x175 | 6 | 4130 | C |
| | 7.5 | 9.6 | 3x39.3 | 75x265 | 12 | 4150 | D |
| | 10 | 12.8 | 3x52.4 | 75x265 | 12 | 4170 | D |
| | 0.5 | 0.6 | 3x1.92 | 50x150 | 21 | 5010 | E |
| | 1 | 1.3 | 3x3.85 | 50x150 | 21 | 5020 | E |
| | 1.5 | 1.9 | 3x5.77 | 50x150 | 21 | 5040 | E |
| 525 | 2.5 | 3.2 | 3x9.62 | 60x150 | 18 | 5060 | E |
| | 5 | 6.4 | 3x19.2 | 75x175 | 6 | 5130 | C |
| | 7.5 | 9.6 | 3x28.9 | 75x265 | 12 | 5150 | D |
| | 10 | 12.8 | 3x38.5 | 75x265 | 12 | 5170 | D |
| | 0.5 | 0.6 | 3x1.75 | 50x150 | 21 | 6010 | E |
| | 1 | 1.3 | 3x3.51 | 50x150 | 21 | 6020 | E |
| | 1.5 | 1.9 | 3x5.26 | 50x150 | 21 | 6040 | E |
| 550 | 2.5 | 3.2 | 3x8.77 | 60x150 | 18 | 6060 | E |
| | 5 | 6.4 | 3x17.5 | 75x175 | 6 | 6130 | C |
| | 7.5 | 9.6 | 3x26.3 | 75x265 | 12 | 6150 | D |
| | 10 | 12.8 | 3x35.1 | 75x265 | 12 | 6170 | D |

TECHNICAL DRAWING


| Terminals and stud | Fixing torque |
|---|---|
| Screw terminals | 1.5 Nm |
| M12 | 11 Nm |

Standard box dimensions: C= 190x285x325 mm D= 250x360x345 mm E= 195x390x255 mm.

To enable the overpressure protection device to operate efficiently, it is necessary to leave a gap of at least 30 mm. above the element and use flexible leads for the connection.