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Vishay ESTA

Line Frequency Capacitors 50 Hz / 60 Hz All-Film Technology



LINKS TO ADDITIONAL RESOURCES



FEATURES

- Dielectric liquid biodegradable
- High quality materials
- · Over pressure switch
- Massive connection studs (M12 or M20)

APPLICATIONS

- · Induction furnaces and heaters
- Improve power factor
- Tune special furnace circuits

STANDARDS

• IEC CEI 60110-1

Note

Capacitor in accordance with other standards available upon request

| QUICK REFERENCE DATA | | | | | | |
|----------------------|----------------------------------------|--|--|--|--|--|
| Series | Phao line frequency | | | | | |
| Description | Line frequency capacitors, indoor | | | | | |
| Туре | Capacitors, induction heating | | | | | |
| Technology | All-film polypropylene / aluminum foil | | | | | |
| Voltage min. (V) | 850 | | | | | |
| Voltage max. (V) | 3000 | | | | | |
| Frequency min. (Hz) | 50 | | | | | |
| Frequency max. (Hz) | 60 | | | | | |
| Output min. (kvar) | 25 | | | | | |
| Output max. (kvar) | 800 | | | | | |

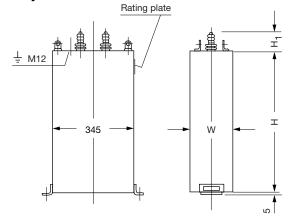
| TECHNICAL DATA | | | | | | |
|-----------------------|--------------------------------------------------------------------|--|--|--|--|--|
| Internal connection | Single phase (dead case) Circuitry I to IX | | | | | |
| Discharge resistor | Available | | | | | |
| Temperature category | -25 °C to +45 °C | | | | | |
| Capacitance tolerance | -5 % / +5 % | | | | | |
| Dielectric | All-film polypropylene / aluminum foil | | | | | |
| Impregnating agent | Synthetic oil (non-PCB) | | | | | |
| Protection | Internal fuses available / pressure monitoring device | | | | | |
| Standards | IEC CEI 60110-1 | | | | | |
| Cooling system | Self-cooling, water-cooled capacitors can be supplied upon request | | | | | |
| Bushings | Porcelain, screw type, M12 / M20 | | | | | |
| Casing | Stainless steel / brass sheet welded | | | | | |
| Mounting | Upright or horizontally position | | | | | |
| Standard color | RAL 7033 / other colors available upon request | | | | | |

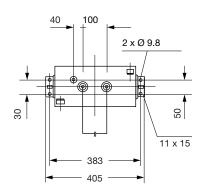


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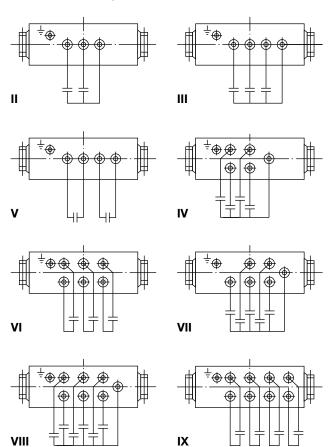
FORMS OF CONSTRUCTION

Circuitry I:





Additional Circuitry Versions:



Standard case dimensions: 345 mm x 135 mm / 175 mm x H mm (other dimensions upon request)

| DIMENSIONS AND WEIGHT | | | | | | | | | |
|----------------------------------------|---------------------------------------------|----------------------------|---------|----------------------------------------|----------------|-----------|--|--|--|
| RATED VOLTAGE U _N (V) | OUTPUT Q _n AT 50 Hz (kvar) | CURRENT AT 50 Hz (A) | BUSHING | CASING DIMENSIONS L x W x H (mm) | WEIGHT (kg) | CIRCUITRY | | | |
| 850 | 370 | 435 | M20 | 345 x 135 x 1000 | 72 | I | | | |
| 900 | 360 | 400 | M20 | 345 x 135 x 985 | 71 | I | | | |
| 1000 | 380 | 380 | M20 | 345 x 135 x 985 | 71 | I | | | |
| 1200 | 480 | 400 | M20 | 345 x 135 x 990 | 71 | I | | | |
| 1500 | 520 | 347 | M12 | 345 x 135 x 1000 | 72 | I | | | |
| 2000 | 530 | 265 | M12 | 345 x 135 x 990 | 71 | I | | | |
| 2400 | 730 | 304 | M12 | 345 x 175 x 995 | 90 | I | | | |
| 3000 | 690 | 230 | M12 | 345 x 175 x 1000 | 91 | I | | | |

Notes

- 60 Hz on request
- Shown are the maximum power ratings.
 Other ratings, voltages, and subdivisions are available on request



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Phao... Line Frequency Capacitors

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| TYPE NOMENCLATURE | | | | | | | | | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|--------------------------------------------|-------------------------------------|----------------------|------------------------|---------|-----------------------------------------------|--------------------------------------------------------------------|----------------------------------------|----------------------------------------------------------------------------|--|
| P h a w o 850 / 500 / 1 S - DR - 60 Hz - EW 1 2 3 4 5 6 7 8 9 10 11 | | | | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| Ph: power capacitor | a: all-film dielectric | w: water cooled n. E.: air cooled | o: non PCB impregnating agent | Voltage (V or kV) | Total output (kvar) | 1-phase | S: partial outputs n. E.: one output | ST: thermostat KL: PTC resistor n. E.: without monitoring | 60 Hz: frequency n. E.: 50 Hz | EW: discharge resistor n. E.: without discharge resistor | |

Note

• n. E. = no entry



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