# r46

## 27.5 kvar at 400 V 50 Hz

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| **Code** | TLR4627.5 |
| **Rated Voltage** | 400 ÷ 415 V ± 10% |
| **Rated Frequency** | 50 Hz |
| **Capacitors Voltage** | 460 V |
| **THDi max** | ≤ 19 % |
| **Power (400 V)** | 27.5 kvar |
| **Rated Current** | 39.5 A |
| **Banks (400 V)** | 2.5 – 5 – 10 - 10 |
| **Steps** | 11*2.5 kVAr |
| **Temperature class** | -5 / +52°C |
| **Insulating Voltage** | 690 V |
| **Max overcurrent** | 1,3 In |
| **Total losses** | < 2 W/kvar |
| **Reference standards** | EN61921, EN61439-1 |

**Capacitors**
Three-phase metallized polypropylene Capacitors with Oil, "dry type", MKPR Series, Rated Voltage 460 V, Operating Voltage 400 V, Insulation Voltage 690 V, equipped with discharge resistors, overpressure safety device and IP20 terminals. Dielectric losses < 0,2W/kVAr. Reference Standards IEC60831-1/2, UL N.810, CSA
Overvoltage: 460 V (24h), 510 V (8h), 535 V (30m), 555 V (5m), 600 V (1m), 1410 V (Picco)
Overcurrent: 2In (24h), 3In (30m),4In (15m), 10In (Picco)

**Contactors**
Three-pole Contactors for capacitor banks, with high number of insertions (>250.000), with resistors for the limitation of high current from capacitor's insertion (> di 100 In), and auxiliary contact. Reference standard IEC 60947-1 / 60947-4-1 and EN 60947-1 / 60947-4-1

**Microprocessor PFC Controller**
PFC406 Series, completed with Display and the following features: Cosphi, Current, Voltage, Reactive Power, Overvoltage, minimum voltage, AUT/MAN, C.T. recognize

**Switch Disconnector**
N. 1 Switch Disconnectors with door interlock sized 1,43 time the nominal current of PFC Unit as per EN61921, 3*80 A

**Fuses**
NH00 Fuses 100 kA for the protection of each capacitor bank. Auxiliary circuits are protected through 10,3 x 38 Fuses

**Transformer**
Single phase transformer for separating the power circuit from the auxiliary circuit (230 Vac)

**Cabinet**
Sheet-steel enclosure 15 and 20/10, painted with epoxy dust paint, colour RAL7035 (others on request).
Protection degree IP31 external, IP00 internal (IP20 with open doors on live parts).
Internal wiring made with cables are FS17 type, Reference standards CEI EN 50575, CEI UNEL 35716, CEI EN 50525 e CPR UE305/11.

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| **Incoming cables** | From the Top |
| **Dimensions / Weight** | (W*H*D) 362*642*262 mm / 23 Kg |
| **Ventilation** | Natural ventilation |