

## POWER SUPPLY 2-PHASE, 24 V DC MINILINE SERIES

ML90.200  
 PSU 3PH 380-480V ac I/P 24V dc 3.75A 90W O/P

- Output current of 4.2 A or 3.75 A
- 2-phase supply
- Compact dimensions
- Efficiency up to 90 %
- 380-480 V ac



### PRODUCT DESCRIPTION

The ML100.200 is a simple and cost effective approach to convert the ac voltage of a typical three phase system into a regulated dc voltage. It only requires two phases and thereby saves terminal space, terminal cost, wires, fuses and installation time.

The ML100.200 is very compact, high efficient and easy to use. The input is internally protected, which makes external fuses unnecessary in many cases.

Weighing only 360g, it is a lightweight compared to the 50/60Hz control transformers, which are commonly used for low-power control voltages where a neutral wire is not available.

High immunity to transients and power surges as well as low electromagnetic emission makes usage in nearly every environment possible.

For approved cooling, free space of 40 mm above and 20 mm under is recommended.

If adjacent components on the rail radiate heat, free space of 15 mm is recommended at all sides.

## TECHNICAL DATA

### INPUT DATA

|  |            |
|--|------------|
| Input voltage ac                             | 380-480 V  |
| Input voltage ac min                         | 323 V AC   |
| Input voltage ac max                         | 552 V AC   |
| Inrush current at 400 V ac typical           | 36 A       |
| Input voltage range                          | Wide-range |
| Power factor at 400 V ac, full load. Typical | 0.6        |
| Number of phases                             | 2          |

### OUTPUT DATA

|                    |         |
|--------------------|---------|
| Output voltage     | 24 V DC |
| Output voltage min | 24 V DC |
| Output voltage max | 28 V DC |

|                |        |
|----------------|--------|
| Output current | 3.75 A |
| Power          | 90 W   |

## EFFICIENCY / LIFETIME / MTBF

|   |           |
|---|-----------|
| Efficiency at 400 V ac, full load, typical  | 89.5 %    |
| MTBF (IEC 61709) 400 V ac, max load, +40 °C | 1594000 h |

## DIMENSIONS

|        |         |
|--------|---------|
| Width  | 72.5 mm |
| Height | 75 mm   |
| Depth  | 103 mm  |
| Weight | 0.36 kg |

## OTHER

|  |                                  |
|--|----------------------------------|
| Approvals                                | CB, CE, CSA, GL, NEC Class 2, UL |
| Hold time at 400 V ac, typical full load | 52 ms                            |
| IP class                                 | IP20                             |
| Clamp type                               | Spring-clamp                     |
| Material protection                      | ABS plastic                      |
| Supply frequency                         | 50-60 ±6 %                       |
| Ripple max                               | 50 mV pp                         |
| Series                                   | Miniline                         |
| Power consumption at 400 V ac            | 0.42 A                           |
| Power drop from +60 °C to +70 °C         | 2 W/°C                           |
| Temperature min without derating         | -10 °C                           |
| Temperature max without derating         | 60 °C                            |

|                   |       |
|-------------------|-------|
| Type Power Supply | AC-DC |
|-------------------|-------|

