The APM family

Overview

APM100B (APM300B) and APM110 are kW-monitors with embedded functions for the control and supervision of AC-motor driven equipment. Units are suitable for mains supply up to 3x500V and include an integral current sensor for up to 80A ac.

APM100B is a measurement transducer with analog outputs 0(4)-20 mA and 0(2)-10V. The kW range is programmed in steps of 0.1 kW up to a maximum of 70 kW. A kWh function is also available with isolated SO1 output.

APM300B is a 3 Phase version of APM100B which uses external current transformers.

APM110 is a Load Monitor with 2 limits and 1 output relay. Limit 1 is a Max limit and Limit 2 is a Min limit. Measurement range/Limit 1 is digitally programable in kW in steps of 0.01/0.1 kW up to a maximum of 70 kW. Limit 2 is programmable from 20 to 80% of the measurement range in steps of 4%. The unit is equipped with Start timer and Response timers.

APM110 has 3 digital inputs for Ext./Aut. Reset and for Limits Blocking.

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### Mechanical
- **Housing:** Lexan UL94V-0 (Top Part)
  - Noryl UL94V-0 (Base Part)
- **Mounting:** M36 for 35 mm DIN Rail
- **IP class:** Housing IP40. Terminals IP20
- **CT dim.:** Max 10 mm feed through
- **Terminals:** Max 16A. Max 2,5 mm² wire
  - Max Torque 4lb/in, 0,6 Nm
- **Temp.:** -15 to +50 grad C
- **Weight:** 300 g
- **Dimensions:** D 58 x W 70 x H 86 mm

### Technical data
- **Voltage range.:** 3x380-3x500Vac
- **Current range:** Internal CT: Max 80Aac
  - External CT: N/1A, N/5A
- **kW range:** Max 70 kW with int. CT
- **Frequency:** 45-65 Hz
- **Relay ratings:** 250V/5Aac. SPDT
- **Analog output 1:** 0(4)-20 mA max 300Ω
- **Analog output 2:** 0(2)-10V min load 1kΩ
- **kWh output:** SO1, 300 (1000) imp/hour/fs
- **CE mark to:** EN50081-1, EN50082-2, EN61010-1

### Electrical

**Unipower®** Leadership in Load Monitoring and Measurement