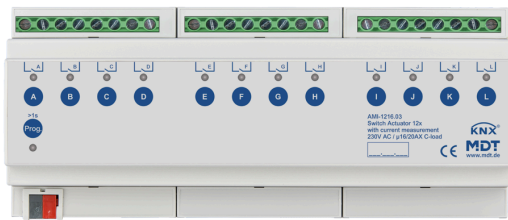


AMI-1216.03

KNX Switch Actuator 12-channel, 12 SU MDRC, 16/20 A, 230 V AC, C-load, industry, 200 μ F, current measurement



Product description:

The MDT Switch Actuator AMI with current measurement in industrial design measures reliably currents with up to 20 A per channel. Herewith for e.g., load surpass, and load shortfall can be monitored. High inrush currents and C-loads up to 200 μ F are not a problem for the AMI

Product functions:

- **Comprehensive function extension**
- **Integrated True RMS current measurement**
- **Current measurement range 10 mA ... 20 A**
- **Integrated meter function for energy consumption (Wh/kWh)**
- **Fast reaction < 1 s in Master/Slave operation**
- Push-button for manual operation and LED Indicator per channel
- Time functions (switch on-/switch off delay, staircase light function)
- **Threshold switch function and consumption threshold value**
- Logical functions, 8 scenes per channel
- **Operating hours meter**
- Extended status functions (inverted, cyclic, during locking)
- **Priority/forced operation with automatic release time**
- Behaviour on Bus power failure/reset selectable
- **4 mm² connection terminals. Individual L-connections**
- 3 year warranty

Technical data:

| | | | |
|--|---|------------------------------------|------------------------|
| Device | Device type | AMI Switch Actuator | |
| | Article Number | AMI-1216.03 | |
| | EAN / GTIN | 4251916130817 | |
| | Installation width | 12 SU / 216 mm | |
| | Dimensions (H x W x D) | 90 x 216 x 65 mm | |
| | Weight, gross (incl. packaging) | 0.876 kg | |
| | Protection classification | IP20 | |
| | Installation type | MDRC, DIN rail 35 mm | |
| | Installation position | any | |
| | Weight, net | 0.83 kg | |
| | Mechanical manual override | No | |
| | Performance data | Nominal voltage U_n | 230 V AC ^{*1} |
| | | Nominal current I_n (per output) | 16/20 A |
| Nominal frequency | | 50/60 Hz | |
| Relay type | | bistable | |
| Mech. switching frequency | | 1.000.000 | |
| Capacitive load | | 200 μ F / 16 A | |
| Fluorescent lamp load AX | | \leq 20 AX | |
| Power dissipation of the device, typical | | \leq 12 W | |
| Outputs | Number of outputs | 12 | |
| Lamp data | Incandescent lamp load | 3680 W | |
| | HV-Halogen lamps | 3680 W | |
| | NV-Halogen lamps | 2000 W | |
| | Fluorescent lamp uncompensated | 3680 W | |
| | Fluorescent lamp parallel compensation | 2500 W | |
| | Max. number of ECG | 28 | |
| Currents | Inrush current (150 μ s) | 600 A | |
| | Inrush current (600 μ s) | 300 A | |
| | Total current carrying capacity of the actuator | 128 A | |
| | Current measuring range | 10 mA ... 20 A | |
| | Measurement accuracy, typical | 2 % | |
| | Sampling rate | 2000 measurements / 500 ms | |
| KNX | Nominal voltage KNX | 30 V DC SELV | |
| | Voltage range KNX | 21 ... 31 V DC SELV | |
| | Typical power consumption KNX bus | $<$ 0,4 W | |
| | KNX Medium | TP-256 with long frame support | |
| | KNX Application | as of ETS 5 (latest) | |

Technical data:

| | | |
|---------------------------------|----------------------------------|----------------------------------|
| Environmental conditions | Ambient operating temperature | 0 ... 45 °C |
| | Storage | -20 ... +55 °C |
| | Humidity | < 95 % |
| | Condensation permissible | No |
| Connections | Connection type | Screw terminal with slotted head |
| | Conductor cross section 1 x | 0,5 ... 4 mm ² |
| | Screw terminal tightening torque | 0.5 Nm |
| | KNX connection type | KNX terminal |
| | KNX cable cross section | 0.6 ... 0.8 mm, solid conductor |

Hinweise

Protection against induced voltage spikes: To protect against voltage spikes when switching off inductive loads, it is recommended to use appropriate protective circuits such as flyback diodes, RC networks, or varistors directly at the actuator output.

*1 Mixed operation of nominal and safety extra low voltage (SELV) within the actuator is not permitted!

Wiring diagram:

