AMS-0816.03

KNX Switch Actuator 8-channel, 8 SU MDRC, 16 A, 230 V AC, C-load, standard, 140 µF, current measurement

Product description:

The MDT Switch Actuator AMS with current measurement in standard design measures reliably current up to 16 A per channel. Herewith for e.g., load surpass, and load shortfall can be monitored. The current measurement per channel can be accounted for in total current measurement.

Product functions:

- **Comprehensive function extension**
- **Integrated True RMS current measurement**
- **Current measurement range 10 mA ... 16 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**

Technical data:

Device	Device type	AMS Switch Actuator
	Article Number	AMS-0816.03
	EAN / GTIN	4251916130831
	Installation width	8 SU / 144 mm
	Dimensions (H x W x D)	90 x 144 x 65 mm
	Weight, gross (incl. packaging)	0.432 kg
	Protection classification	IP20
	Installation type	MDRC, DIN rail 35 mm
	Installation position	any
	Weight, net	0.392 kg
	Mechanical manual override	No
Performance data	Nominal voltage U_n	230 V AC *1
	Nominal current I_n (per output)	16 A
	Nominal frequency	50/60 Hz
	Relay type	bistable
	Mech. switching frequency	1.000.000
	Capacitive load	140 µF / 16 A
	Fluorescent lamp load AX	≤ 16 AX
	Power dissipation of the device, typical	≤ 4 W
Outputs	Number of outputs	8
Lamp data	Incandescent lamp load	2500 W
	HV-Halogen lamps	2500 W
	NV-Halogen lamps	1500 W
	Fluorescent lamp uncompensated	2300 W
	Fluorescent lamp parallel compensation	1300 W
	Max. number of ECG	20
Currents	Inrush current (150 µs)	600 A
	Inrush current (600 µs)	250 A
	Total current carrying capacity of the actuator	96 A
	Current measuring range	10 mA ... 10 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 mm²
	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: