

## AMI-1216.03

**KNX Switch Actuator 12-channel, 12 SU MDRC, 16/20 A, 230 V AC, C-load, industry, 200  $\mu$ 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 $\mu$ 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 mm<sup>2</sup> connection terminals. Individual L-connections

## Technical data:

<b>Device</b>	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	
	<b>Performance data</b>	Nominal voltage $U_n$	230 V AC <sup>*1</sup>
		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 $\mu$ F / 16 A	
Fluorescent lamp load AX		$\leq$ 20 AX	
Power dissipation of the device, typical		$\leq$ 12 W	
<b>Outputs</b>	Number of outputs	12	
<b>Lamp data</b>	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	
<b>Currents</b>	Inrush current (150 $\mu$ s)	600 A	
	Inrush current (600 $\mu$ 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	
<b>KNX</b>	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:

<b>Environmental conditions</b>	Ambient operating temperature	0 ... 45 °C
	Storage	-20 ... +55 °C
	Humidity	< 95 %
	Condensation permissible	No
<b>Connections</b>	Connection type	Screw terminal with slotted head
	Conductor cross section 1 x	0,5 ... 4 mm <sup>2</sup>
	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:

