

AZI-0316.03

KNX Switch Actuator 3-channel, 4 SU MDRC, 16/20 A, 230 V AC, C-load, 200 μ F, effective power measurement



Product description:

The MDT Switch Actuator AZI with active power measurement combines the switchability of high inrush current with the accuracy of the active power measurement. Current measurement of each channel and total current measurement are possible. The consumed energy is registered by the effective power meter. The actuator is equipped with bistable relays for currents up to 16/20 A and a C-load of 200 μ F.

Product functions:

- **Comprehensive function extension**
- **Integrated True RMS current and voltage measurement**
- True active power meter (Wh/kWh)
- **Current measurement range 10 mA ... 20 A**
- **Active power-, reactive power-, current- and voltage values**
- 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**
- **Priority/forced operation with automatic release time**
- Logical functions, 8 scenes per channel
- **Operating hours meter**
- Extended status functions (inverted, cyclic, during locking)
- Behaviour on Bus power failure/reset selectable
- **4 mm² connection terminals. Individual L-connections**

Technical data:

Device	Device type	AZI Switch Actuator	
	Article Number	AZI-0316.03	
	EAN / GTIN	4251916130855	
	Installation width	4 SU / 72 mm	
	Dimensions (H x W x D)	90 x 72 x 65 mm	
	Weight, gross (incl. packaging)	0.291 kg	
	Protection classification	IP20	
	Installation type	MDRC, DIN rail 35 mm	
	Installation position	any	
	Weight, net	0.263 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 3 W	
Outputs	Number of outputs	3	
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 adjacent outputs	32 A	
	Total current carrying capacity of the actuator	48 A	
	Current measuring range	10 mA ... 20 A	
	Measurement accuracy, typical	2 %	
	Sampling rate	2000 measurements / 500 ms	

Technical data:

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)
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:

