## KNX-SA24

## UNIVERSAL SWITCH ACTUATOR

KNX-SA24 module is a universal switch actuator, which makes it possible to control electrical devices (lighting, ventilation). The telegrams received from various KNX devices (e.g. sensors) are converted, via the module, into concrete actions, such as switching on/off light or fan.

The KNX-SA24 module has 8 relay outputs. Each of them corresponds to one logical channel.

Features:

- communication with KNX bus via integrated bus connector
- feedback on the state of module and individual channels
- reaction of each channel can be defined in case of KNX bus voltage loss and recovery
- reaction of each channel can be defined in case of mains voltage recovery
- time functions (flashing, on/off delay, staircase light function with advance warning option and operating time change)
- logic functions (AND, NAND, OR, NOR, XOR, XNOR)
- threshold value function
- safety functions
- state forcing functions
- scenes for each of the channels can be called up by using 1and 8 -bit commands
- manual control of each channel state by using buttons situated on enclosure
- status LEDs for each channel
- capability of switching between resistive, inductive and capacitive loads
- module configuration using ETS software
- suitable for mounting on DIN rail ( 35 mm )

TECHNICAL DATA

| Electrical endurance (number of switching cycles), $\mathrm{AC1}$ ( $600 \mathrm{cycles} / \mathrm{h}$ ) | $>10^{5} 16 \mathrm{~A} / 250 \mathrm{VAC}$ |
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| Electrical endurance (number of switching cycles), DC1 ( 600 cycles/h) | $>10^{5} 16 \mathrm{~A} / 24 \mathrm{VAC}$ |
| Electrical endurance (number of switching cycles), $\mathrm{AC3}(\mathrm{I}=3,5 \mathrm{~A})$ | $>2,5 \times 10^{5}$ |
| Electrical endurance (number of switching cycles), AC1 (when loaded with 1000 W incandescent lamps) | $>0,9 \times 10^{5}$ |
| Fluorescent lamps (without compensation) | 3680 W |
| Fluorescent lamps (parallel compensation) | $2500 \mathrm{~W}, 200 \mu \mathrm{~F}$ |
| Fluorescent lamps (series compensation) | $3680 \mathrm{~W}, 200 \mu \mathrm{~F}$ |
| Compact fluorescent lamps (without compensation) | 3680 W |
| Compact fluorescent lamps (parallel compensation) | $2500 \mathrm{~W}, 200 \mu \mathrm{~F}$ |
| HV 230V halogen lamps | 3680 W |
| LV halogen lamps (electronic transformer) | 2500 W |
| LV halogen lamps (conventional transformer) | 2000 VA |
| High-pressure mercury lamps (without compensation) | 3680 W |
| High-pressure mercury lamps (parallel compensation) | $3680 \mathrm{~W}, 200 \mathrm{FF}$ |
| Incandescent lamps | 3680 W |
| Number of units on DIN rail | 4 |
| Number of relay outputs (2 independent paths, 4 relays per path) | 8 |
| Maximum switching frequency at no load | 3600 cyklih |
| Maximum switching frequency at rated load, AC1 | 600 cyklih |
| Maximum number of group addresses | 256 |
| Maximum number of associations | 256 |
| Maximum number of communication objects | 133 |
| Maximum switching power, AC1 | 4000 VA |
| Maximum time of response to telegram | <20 ms |
| Maximum tightening torque | $0.5 \mathrm{~N} \cdot \mathrm{~m}$ |
| Maximum power consumption | 5 W |
| Maximum surge current | 168 A $20 \mathrm{~ms} ; 800$ A 200 нs |
| Maximum cross-section of wire | $2.5 \mathrm{~mm}^{2}$ |
| Weight | 240 g |
| Wetting current | 10 mA |
| KNX bus voltage | $20 . .30 \mathrm{~V}$ DC |
| Supply voltage | 230 |
| Contact rating | 16 A |
| Capacitive load | 16 A, max. $200 \mu \mathrm{~F}$ |
| Resistive load | 3680 W |
| Current draw from KNX bus | <10 mA |
| IP code | IP20 |
| Enclosure dimensions | $70 \times 92 \times 60 \mathrm{~mm}$ |
| Temperature range for storage / transport | $-25^{\circ} \mathrm{C} . .+70^{\circ} \mathrm{C}$ |
| Operating temperature range | $0^{\circ} \mathrm{C} . . .45^{\circ} \mathrm{C}$ |
| Rated load current (power), AC1 | $16 \mathrm{~A} / 250 \mathrm{~V}$ AC |
| Rated load current (power), AC15 | $3 \mathrm{~A} / 120 \mathrm{~V} 1,5 \mathrm{~A} / 240 \mathrm{~V}$ (B300) |
| Rated load current (power), AC3 | 750 W (silnik jednofazowy) |
| Rated load current (power), DC1 | $16 \mathrm{~A} / 24 \mathrm{VDC}$ |
| Rated load current (power), DC13 | $0,22 \mathrm{~A} / 120 \mathrm{~V} 0,1 \mathrm{~A} / 250 \mathrm{~V}$ (R300) |

