



FAN code
DA3-06M: 8595188174442
DA3-06M/120V: 8595188174459

Technical parameters DA3-06M DA3-06M/120V

Outputs

Output:	6x contactless outputs, 2x MOSFET, channel
Load type:	resistive, inductive, capacitive*, LED, ESL
Isolation BUS separated from all internal circuits:	reinforced Insulation (Cat. II surges by EN 60664-1)
Isolation voltage between particular power:	max. 500 V AC
Minimal controlled load:	10 VA
Maximal controlled load:	DA3-06M (230V): 150 VA for each channel DA3-06M/120V: 75 VA for each channel
Output indication ON/OFF:	6x yellow LED
Device protection:	thermal / short-term overload / long-term overload / short circuit

Communication

Installation BUS:	BUS
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Power supply

Supply voltage by BUS / tolerance:	27 V DC, -20 / +10 %	
Rated current:	100 mA (at 27V DC), from BUS	
Status indication unit:	green LED RUN	
Supply voltage for power section / tolerance:	3x AC 230 V (50 Hz), -15 / +10 %	3x AC 120 V (60 Hz), -15 / +10 %

Connection

Terminal:	max. 2.5 mm ² /1.5 mm ² with sleeve
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Operating conditions

Air humidity:	max. 80 %
Operating temperature:	-20 to +35 °C
Storing temperature:	-30 to +70 °C
Protection degree:	IP20 device, IP40 mounting in the switchboard
Overvoltage category:	II.
Pollution degree:	2
Operating position:	vertical
Installation:	switchboard on DIN rail EN 60715
Design:	6-MODULE

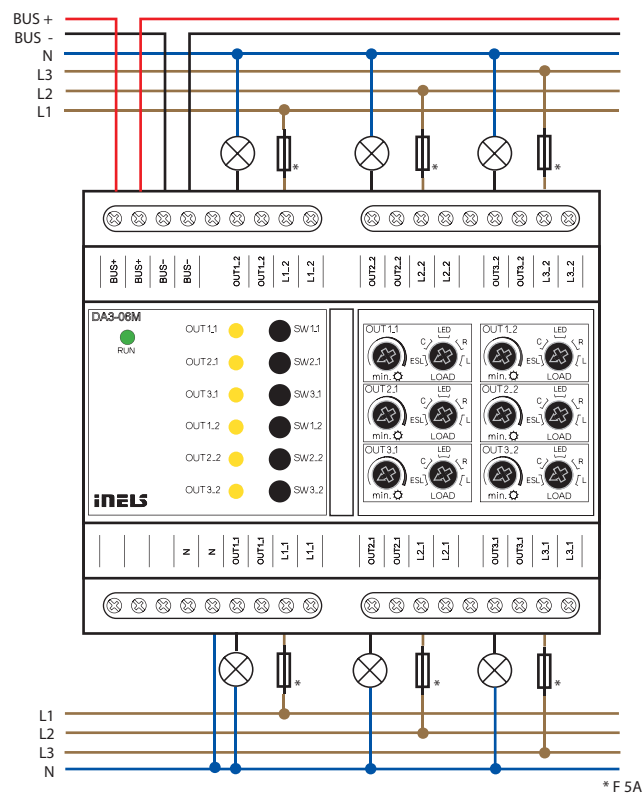
Dimensions and weight

Dimensions:	90 x 105 x 65 mm
Weight:	320 g

* Attention: It is not allowed to connect loads of inductive and capacitive character, at the same time.

- DA3-06M is a universal six-channel dimmer actuator that controls the brightness of dimmable ESL, LED and RLC light sources with 230V power.
- The DA3-06M has 6 semiconductor controlled 230 V AC outputs. Maximum possible load is 150 VA for each channel.
- Each of the output channels is individually controllable.
- Setting min. Brightness with the potentiometer on the front of the instrument eliminates flickering of different types of light sources.
- Using the front panel control buttons, you can manually control the output.
- The actuator is equipped with electronic overcurrent and thermal protection that shuts off the output during overloads, short circuits or overheating.
- When installing, on each side of the actuator, it is necessary to leave at least half a module space for better cooling.
- DA3-06M in 6-MODULE version is designed for mounting into a switchboard/ DIN rail EN60715.








Connection











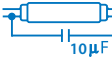



Types of connectable loads

type of source	symbol	description
R resistive		ordinary light bulb, halogen lamp
L inductive		coiled transformer for low-voltage halogen lamps
C capacitive		electronic transformer for low-voltage halogen lamps
LED		LED lamps and LED light sources, 230 V
ESL		dimmable energy-saving fluorescent tubes

Loadability of contacts

Load	bulbs, halogen bulbs	12–24V low-voltage bulbs, coil transformers	12–24V low-voltage bulbs, electric transformers	LEDs	energy-saving fluorescent tubes	control method	
							
	R	L	C	dimmable	dimmable	entering edge	trailing edge
DA3-22M	•	•	•	•	•	•	•
DA3-06M	•	•	•	•	•	•	•

Explanations

	El. bulbs loads: el. bulb, halogen light (R)		Elektronic ballasts for fluorescent (L)
	Dimmer with defined load: R - resistive, L - inductive, C - capacitive		Inductive loads (transformers): feromagnetic and toroid transformers for lights with various voltage.
	Fluorescent light: fluorescent lights uncompensated		Switch: switch - control contact of various device
	Fluorescent light: fluorescent light compensated in series		Button: control button
	Fluorescent light: fluorescent light compensated in parallel		Control module: analog control module 0 - 10 V
	Fluorescent light: fluorescent light economical		Motor

Category of use

Typical use

AC current, $\cos\varphi = P/S$ (-)

AC-1	Non-inductive or slightly inductive load, resistance furnace Includes all appliances supplied by AC current with power factor ($\cos\varphi$) ≥ 0.95 Examples of usage: resistance furnace, industrial loads
AC-2	Motors with slip-ring armature, switching off
AC-3	Motors with short-circuit armature, motor switching when in operation This category applies to switching off motors with short-circuit armature while in operation. While switching, contactor switches current which is 5 up to 7 times rated current of motor.
AC-5a	Switching of electrical gas-filled lights, fluorescent lights
AC-5b	El. bulb switching Enables low contact loading due to resistance of cold filament is many times smaller than the one of hot filament.
AC-6a	Switching of transformers
AC-7b	Load of motors for home appliances
AC-12	Switching of semiconductor loads with separation transformers
AC-13	Switching of semiconductor loads with separation transformers
AC-14	Switching of low electro-magnetic loads (max. 72 VA)
AC-15	Management of alternating electro-magnetic loads This category applies to switching inductive loads with input for closed electro-magnetic circuit higher than 72 VA Use: switching coils of contactors

Note: Category AC 15 replaces formerly used category AC 11

DC current, $t = L/R$ (s)

DC-1	Non-inductive or low inductive load, resistive furnaces
DC-3	Shunt motors: start-up, braking by backset, reversion, resistive braking
DC-5	Series motor: start-up, braking by backset, reversion, resistive braking
DC-12	Management of resistive loads and fixed loads with insulation by opto-electric element
DC-13	Switching of electromagnets
DC-14	Switching of electromagnetic loads in circuits with limiting resistor