

EAN code
FA3-612M: 8595188135276

Technical parameters **FA3-612M**

Input

Analog inputs:	3x voltage, current or temperature input
Number of inputs:	3
Galv. separation from inner circuits:	no
Diagnostic:	indication red LED OVERRANGE (exceeding the range, interruption of a sensor or overload of Uref output)
Common terminal:	GND
Converter resolution:	14 bits
Input resistance	
- for voltage ranges:	approx. 150 kΩ
- for current ranges:	100 Ω
Types of inputs/measuring ranges*:	Voltage (U): 0 ÷ +10 V (U) ; 0 ÷ +2 V (U) Current (I): 0 ÷ +20 mA (I) ; 4 ÷ +20 mA (I) temperature: input at ext. temperature sensor TC, TZ, Ni1000**, Pt1000**, Pt100** see accessories/ according to used sensor from -30 °C to 250 °C

Digital inputs:	3x switching or expansion, positive logic (SINK)
Input voltage:	20 - 240 V AC (50 - 60 Hz)/DC
Galv. separation from internal circuits:	yes
Common lead:	GO COM3

Outputs

Analog:	4x (A_OUT1 - A_OUT4)
Voltage analog. output/max. Current:	4x 0(1) - 10 V/10 mA
Uref reference voltage outputs	
Voltage/Current Uref:	10 V DC/100 mA
Output overload indication:	red LED OVERLOAD
SSR (Electronic Relay):	4x (VALVE1 - VALVE2)
Switching voltage:	20 - 240 V AC
Switching capacity:	480 VA
Peak current:	20 A, t ≤ 16 ms
Output indication:	yellow LED
Relay 6A:	4x (FAN1-FAN3, RE)
Switching voltage:	250 V AC, 24 V DC
Switching capacity:	1500 VA/AC1; 300 VA/AC15; 180 W/DC, AC3
Relay outputs separated from all internal circuits:	reinforced insulation (Cat. II surges by EN 60664-1)
Minimum switching load:	500 mW (12 V/10 mA)
Mechanical life:	10x10 ⁶
Electrical life AC1:	6x10 ⁴
Output indication:	yellow LED

Communication

Installation BUS:	BUS
Status indication unit:	green LED RUN

Power supply

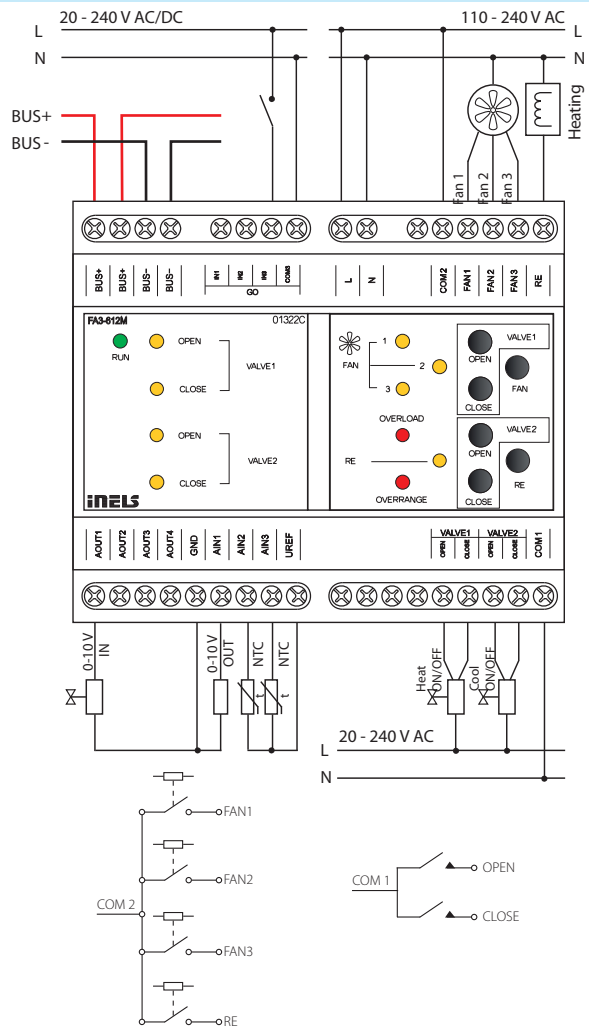
Supply voltage/tolerance/ rated current:	27 V DC, -20/+10 %, 5 mA
Supply voltage of power section (relay) tolerance/ nominal current:	AC 230 V (50 Hz), -15/+10 %, 20 mA
Dissipated power:	max. 1 W

- FA3-612M is a unit (actuator) designed to control fan coil units using analogue/digital inputs and analog/relay outputs.
- Analog inputs for temperature, voltage or current measurement (Uref reference voltage can also be used).
- The digital inputs are galvanically isolated with positive logic (Sink) in the 24-230 V AC/DC voltage range.
- Analog outputs 0-10 V.
- Connection to the installation BUS.
- Buttons for closing/opening the valve, fan and heating relay.
- The LEDs on the front panel indicate FAN, RE, VALVE1, VALVE2, OVER-RANGE, and OVERLOAD status.
- FA3-612M in 6-MODULE version is designed for mounting into a switchboard, on DIN rail EN60715.

Connection

Terminal:	max. 2.5 mm ² /1.5 mm ² with sleeve
Operating conditions	
Operating temperature:	-20 to +55 °C
Storing temperature:	-30 to +70 °C
Protection degree:	IP20 device, IP40 mounting in the switchboard
Overvoltage category:	II.
Pollution degree:	2
Operating position:	any
Installation:	switchboard on DIN rail EN 60715
Design:	6-MODULE
Dimensions and weight	
Dimensions:	90 x 105 x 65 mm
Weight:	307 g

Connection



* selectable for each input individually by configuration in the user program iDM3.
** The FA3-612M / Pt version is available for these sensors.