

Features

Level control relays for conductive liquids

72.01 - Adjustable sensitivity

72.11 - Fixed sensitivity

- Emptying or filling functions
- LED indicator
- Reinforced insulation (6 kV - 1.2/50 μ s) between:
 - supply and contacts
 - electrodes and supply
 - contacts and electrodes
- 35 mm rail (EN 60715) mount
- Control about a single level or between Min./Max. limits
- 72.01 available also for supply 400 V
- 72.01 available also with sensitivity range (5...450) k Ω adjustable
- 72.01 available also for contact loads down to 5 V 1 mA

72.01/11
Screw terminal



FOR UL RATINGS SEE:
"General technical information" page V

For outline drawing see page 8

Contact specification

Contact configuration		1 CO (SPDT)	1 CO (SPDT)
Rated current/Maximum peak current	A	16/30	16/30
Rated voltage/Maximum switching voltage V AC		250/400	250/400
Rated load AC1	VA	4,000	4,000
Rated load AC15 (230 V AC)	VA	750	750
Single phase motor rating (230 V AC)	kW	0.55	0.55
Breaking capacity DC1: 30/110/220 V	A	16/0.3/0.12	16/0.3/0.12
Minimum switching load	mW (V/mA)	500 (10/5)	500 (10/5)
Standard contact material		AgCdO	AgCdO

Supply specification

Nominal voltage (U _N)	V AC (50/60 Hz)	24	110...125	230...240	400	24	110...125	230...240
	V DC	24	—	—	—	24	—	—
Rated power AC/DC	VA (50 Hz)/W	2.5/1.5				2.5/1.5		
Operating range	V AC (50/60 Hz)	19.2...26.4	90...130	184...253	360...460	19.2...26.4	90...130	184...253
	V DC	20.4...26.4	—	—	—	20.4...26.4	—	—

Technical data

Electrical life at rated load AC1	cycles	$100 \cdot 10^3$				$100 \cdot 10^3$			
Electrode voltage	V AC	4				4			
Electrode current	mA	0.2				0.2			
Run-on time	s	0.5 - 7 (selectable)				1			
Max sensitivity range	k Ω	5...150 (adjustable)				150 (fixed)			
Insulation between supply/contacts/electrode (1.2/50 μ s)	kV	6				6			
Ambient temperature	°C	-20...+60				-20...+60			
Protection category		IP20				IP20			

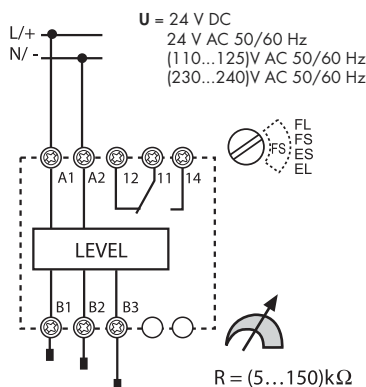
Approvals (according to type)



72.01



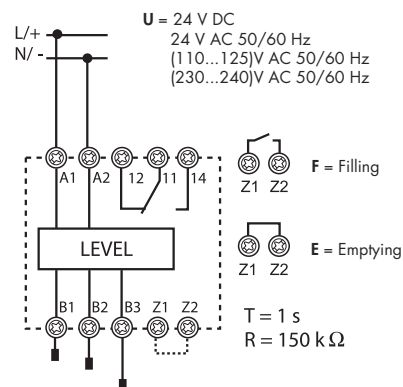
- Sensitivity range (5...150) k Ω adjustable
- Delay time (0.5s or 7s) switch selectable
- Emptying or filling functions switch selectable



72.11



- Sensitivity fixed 150 k Ω
- Delay time fixed: 1s
- Emptying or filling functions link selectable



Features

Priority change relay
Special relay for alternating loads,
for applications with pumps, compressors,
air conditioning or refrigeration units

- 2 independent NO output, 12 A
- 4 functions
- 2 independent control signals, insulated from supply
- 110...240 V and 24 V AC/DC supply versions
- Modular housing, 35 mm wide
- 35 mm rail (EN 60715) mount
- Cd-free contact material

72.42
Screw terminal

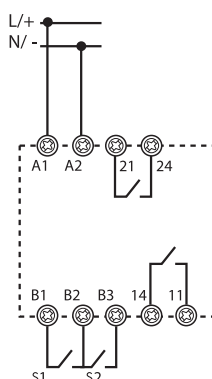


E

NEW 72.42



- Multi-function (MI, ME, M2, M1)



For outline drawing see page 8

Contact specification

Contact configuration	2 NO (2 DPST-NO)	
Rated current / Max. peak current	A	12 / 20
Rated voltage / Max. switching voltage	V AC	250 / 400
Rated load AC1	VA	3,000
Rated load AC15	VA	1,000
Single phase motor rating (230 V AC)	kW	0.55
Breaking capacity DC1: 30/110/220 V	A	12 / 0.3 / 0.12
Minimum switching load	mW (V/mA)	300 (5 / 5)
Standard contact material	AgNi	

Supply specification

Nominal voltage (U _N)	V AC (50/60 Hz) / DC	24	110 ... 240
Rated power	in stand-by W	0.12	0.18
	with 2 active relays W/VA(50 Hz)	1.1 / 1.7	1.5 / 3.9
Operating range	V AC (50/60 Hz)	16.8...28.8	90...264
	V DC	16.8...32	90...264

Technical data

Electrical life at rated load AC1	cycles	100 x 10 ³
Output delay time (T on function diagrams)	s	0.2...20
Power-on activation time	s	≤ 0.7
Minimum impulse duration	ms	50
Insulation between supply and contacts (1.2/50 μs)	kV	6
Dielectric strength between open contacts	V AC	1,000
Ambient temperature	°C	-20...+50
Protection category	IP20	

Approvals (according to type)

