

## 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 μs) 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) kΩ adjustable
- 72.01 available also for contact loads down to 5 V 1 mA

72.01/11  
Screw terminal



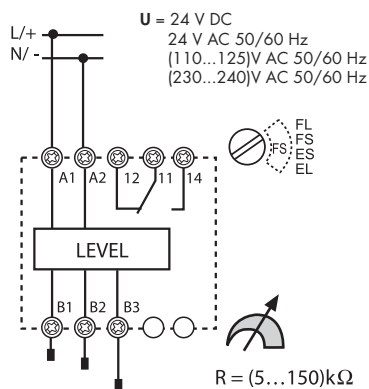
FOR UL RATINGS SEE:  
"General technical information" page V

For outline drawing see page 8

**72.01**



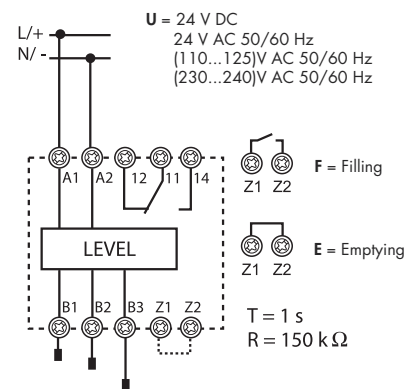
- Sensitivity range (5...150) kΩ adjustable
- Delay time (0.5s or 7s) switch selectable
- Emptying or filling functions switch selectable



**72.11**



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



### Contact specification

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

### Supply specification

Nominal voltage (U <sub>N</sub> )	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 · 10 <sup>3</sup>				100 · 10 <sup>3</sup>			
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	kΩ	5...150 (adjustable)				150 (fixed)			
Insulation between supply/contacts/electrode (1.2/50 μs)	kV	6				6			
Ambient temperature	°C	-20...+60				-20...+60			
Protection category		IP20				IP20			

### Approvals (according to type)



### 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

**NEW 72.42**

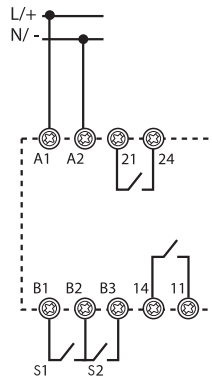


• Multi-function (MI, ME, M2, M1)

72.42  
Screw terminal



E



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 <sub>N</sub> )	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 <sup>3</sup>
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)

