

**Level control relays for conductive liquids**

**Type 72.01**

- Adjustable sensitivity
- Available also for supply 400 V
- Available also with sensitivity range (5...450)kΩ adjustable
- Available also for contact loads down to 5 V, 1 mA

**Type 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

72.01/11  
Screw terminal



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

For outline drawing see page 10

**Contact specification**

Contact configuration		1 CO (SPDT)
Rated current/Maximum peak current	A	16/30
Rated voltage/ Maximum switching voltage	V AC	250/400
Rated load AC1	VA	4000
Rated load AC15 (230 V AC)	VA	750
Single phase motor rating (230 V AC)	kW	0.55
Breaking capacity DC1: 30/110/220 V	A	16/0.3/0.12
Minimum switching load	mW (V/mA)	500 (10/5)
Standard contact material		AgCdO

**Supply specification**

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

**Technical data**

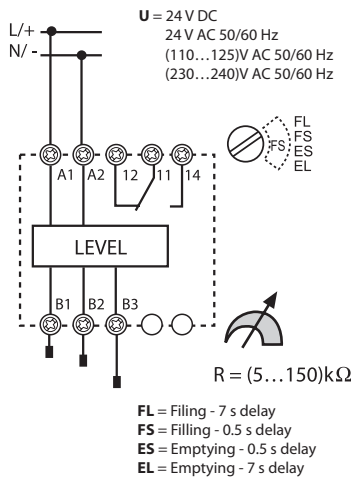
Electrical life at rated load AC1	cycles	100 · 10 <sup>3</sup>
Electrode voltage	V AC	4
Electrode current	mA	0.2
Run-on time	s	0.5 - 7 (selectable)
Max sensitivity range	kΩ	5...150 (adjustable)
Insulation between supply/contacts/electrode (1.2/50 μs)	kV	6
Ambient temperature	°C	-20...+60
Protection category		IP 20

**Approvals** (according to type)

**72.01**



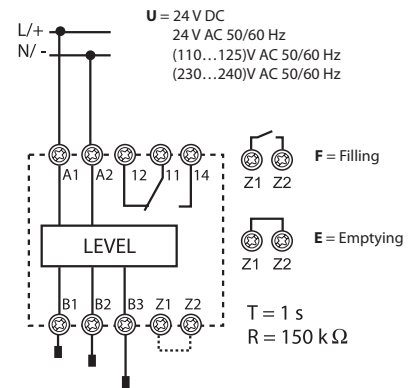
- Sensitivity range (5...150)kΩ adjustable
- Delay time (0.5 s or 7 s) switch selectable
- Emptying or filling functions switch selectable



**72.11**



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



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

**Type 72.42**

- Priority change relay
- 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

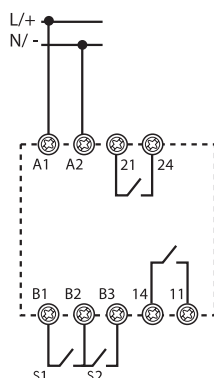


E

**72.42**



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



For outline drawing see page 10

**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	3000
Rated load AC15	VA	1000
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 · 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	1000
Ambient temperature	°C	-20...+50
Protection category		IP 20

**Approvals** (according to type)

