

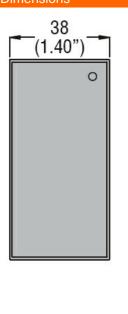
# LEVEL MONITORING RELAY, PLUG-IN VERSION, SINGLE-VOLTAGE. AUTOMATIC RESETTING, 110...120VAC

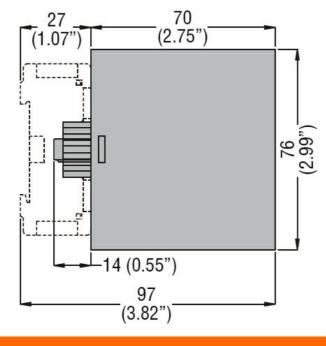
Product designation         Level control relay for remptying function. Single votage, Plug-in version         Level control relay for remptying function. Single votage, Plug-in version           Product type designation         Emptying           Auxiliary supply         Single voltage           AC         min         VAC         110           AC         min         VAC         120           Operating voltage range         To         10				The control of the co
Simple voltage           Rated auxiliary supply voltage Us AC         min Max         VAC         110           Operating voltage range         .0.851.1 Us           Rated frequency         Hz         50/60           Power consumption Max         W         5.5           Power dissipation Max         W         2.8           Output characteristics         Nr.         3           Rumber of connectable electrodes         Nr.         3           Type of electrode         Felectrode and electrode and el	Product type designation Function			relay for emptying function. Single voltage. Plug-in version LV1E
Rated auxiliary supply voltage Us AC           AC         min Max         VAC         110 Max         VAC         120 <t< td=""><td></td><td></td><td></td><td>Single voltage</td></t<>				Single voltage
AC         min Max         VAC VAC         110 Max         VAC         120           Operating voltage range				onigio voltage
Deperating voltage range         vAC         110           Rated frequency         HZ         50/60           Power consumption Max         VA         5.5           Power dissipation Max         VA         5.5           Power dissipation Max         VX         5.5           Power dissipation Max         VX         3.8           Output characteristics         Nr.         3           Rumber of connectable electrodes         Nr.         3           Flectrode contectable electrodes         Nr.         3           Type of electrode         Electrode ind electrode holders: SN1 / SCM / CGL / PS31 / PS3S or similar         SCM / CGL / PS31 / PS3S or similar           Electrode voltage         XQ         7 .8 fixed           Sensitivity         XQ         7 .8 fixed           Tiripping time         S         \$0.05           Resetting time         S         \$0.1           Resetting time         S         \$0.1           Relay outputs         Nr.         1           Relay outputs         Nr.         1           Relay outputs         Nr.         1           Contact arrangement         Nr.         1           Contact arrangement         YAC         20 </td <td></td> <td></td> <td></td> <td></td>				
Operating voltage range         0.851.1 Us           Rated frequency         Hz         50/60           Power consumption Max         VA         5.5           Power dissipation Max         W         2.8           Output characteristics         Nr.         3           Number of connectable electrodes         Nr.         3           Electrode         holders; SN1 / SCM / CGL / PS31 / PS3s or similar         SCM / CGL / PS31 / PS3s or similar           Electrode voltage         9VAC (voltage between probes)           Sensitivity         kΩ         78 fixed           Time delay         Tripping time         s ≤ 0.05           Resetting time         s ≤ 50.1           Relay outputs         Nr.         1           Number of relays         Nr.         1           Relay state         nergises at tripping           Contact arrangement         1 changeover contact C/O-SPDT           Rated operational voltage AC (IEC)         VAC         220           Maximum switching voltage         VAC         380           IEC Conventional free air thermal current Ith         A         5           LU/CSA and IEC/EN 60947-5-1 designation         B300           Electrical life (with rated load)         cycles         2.5 x	,.e	min	VAC	110
Rated frequency         Hz         50/60           Power consumption Max         VA         5.5           Power dissipation Max         W         2.8           Output characteristics         Image: Control of the control of connectable electrodes         Image: Control of electrode and electrode and electrode and electrode holders: SM1 / SCM / CGL / PS31 / PS3S or similar           Type of electrode         9VAC (voltage between probes)           Sensitivity         kQ         78 fixed           Time delay         Tripping time         \$         \$0.05           Resetting time         \$         \$0.1           Relay outputs         Nr.         1           Number of relays         Nr.         1           Relay state         Normally deenergised, energised, energised, energises at tripping         1 changeover contact C/O-SPDT           Contact arrangement         SPDT         SPDT           Rated operational voltage AC (IEC)         VAC         220           Maximum switching voltage         VAC         380           IEC Conventional free air thermal current lth         A         5           UL/CSA and IEC/EN 60947-5-1 designation         B300           Electrical life (with rated load)         cycles         2.5 x 10°		Max	VAC	
Power consumption Max       VA       5.5         Power dissipation Max       W       2.8         Output characteristics       Nr.       3         Number of connectable electrodes       Nr.       3         Electrode and electrode holders: SN1 / SCM / CGL / PS31 / PS3S or similar         Electrode voltage       9VAC (voltage between probes)         Sensitivity       kΩ       78 fixed         Time delay       Tripping time       s       ≤0.05         Resetting time       s       ≤0.1         Relay outputs       Number of relays       Nr.       1         Relay state       normally deenergised, energised, energised, energised, energises at tripping         Contact arrangement       1 changeover contact C/O-SPDT         Rated operational voltage AC (IEC)       VAC       220         Maximum switching voltage       VAC       380         EIEC Conventional free air thermal current Ith       A       5         UL/CSA and IEC/EN 60947-5-1 designation       B300         Electrical life (with rated load)       cycles       2.5 x 10°	Operating voltage range			
Power dissipation Max       W       2.8         Output characteristics       Nr.       3         Number of connectable electrodes       Nr.       3         Type of electrode       Electrode and electrode holders: SNI1 / SCM / CGL / PS31 / PS3S or similar         Electrode voltage       9VAC (voltage between probes)         Sensitivity       kΩ       78 fixed         Tripping time       s       ≤0.05         Resetting time       s       ≤0.1         Relay outputs       Nr.       1         Number of relays       Nr.       1         Relay state       Normally deenergises at tripping         Contact arrangement       1 changeover contact C/O-SPDT         Rated operational voltage AC (IEC)       VAC       220         Maximum switching voltage       VAC       380         IEC Conventional free air thermal current Ith       A       5         UL/CSA and IEC/EN 60947-5-1 designation       B300         Electrical life (with rated load)       cycles       2.5 x 10s²				
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Electrode and electrode   holders: SN1 / SCM / CGL / PS31 / PS3S or similar	·			
Type of electrodeelectrode holders: SN1 / SCM / CGL / PS31 / PS3S or similarElectrode voltage9VAC (voltage between probes)SensitivitykΩ78 fixedTime delayTripping times≤0.05Resetting times≤0.1Relay outputsNr.1Relay stateNr.1Relay statenormally de- energised, energised, energises at trippingContact arrangement1 changeover contact C/O- SPDTRated operational voltage AC (IEC)VAC SPDTRated operational voltage AC (IEC)VAC SPDTRaximum switching voltageVAC 380IEC Conventional free air thermal current lthA A SUL/CSA and IEC/EN 60947-5-1 designationB300 Electrical life (with rated load)	Number of connectable electrodes		Nr.	
Electrode Voltage         between probes)           Sensitivity         kΩ         78 fixed           Trime delay           Tripping time         s         ≤0.05           Resetting time         s         ≤0.1           Relay outputs           Number of relays         Nr.         1           Relay state         energised, energised, energises at tripping         1 changeover contact C/O-SPDT           Contact arrangement         contact C/O-SPDT           Rated operational voltage AC (IEC)         VAC         220           Maximum switching voltage         VAC         380           IEC Conventional free air thermal current Ith         A         5           UL/CSA and IEC/EN 60947-5-1 designation         B300           Electrical life (with rated load)         cycles         2.5 x 10 <sup>5</sup>	Type of electrode			electrode holders: SN1 / SCM / CGL / PS31 / PS3S or
Sensitivity         kΩ         78 fixed           Time delay         Tripping time         s         ≤0.05           Resetting time         s         ≤0.1           Relay outputs         Nr.         1           Number of relays         Nr.         1           Relay state         Normally deenergised, energised, energises at tripping         1 changeover contact C/O-SPDT           Contact arrangement         VAC         220           Maximum switching voltage         VAC         380           IEC Conventional free air thermal current lth         A         5           UL/CSA and IEC/EN 60947-5-1 designation         B300           Electrical life (with rated load)         cycles         2.5 x 10⁵	Electrode voltage			, -
Time delay         Tripping time       s       ≤0.05         Resetting time       s       ≤0.1         Relay outputs       Number of relays       Nr. 1         Relay state       Normally deenergised, energised, energises at tripping         Contact arrangement       1 changeover contact C/O-SPDT         Rated operational voltage AC (IEC)       VAC 220         Maximum switching voltage       VAC 380         IEC Conventional free air thermal current lth       A       5         UL/CSA and IEC/EN 60947-5-1 designation       B300         Electrical life (with rated load)       cycles       2.5 x 10⁵	Sensitivity		kΩ	
Tripping time         s         ≤0.05           Resetting time         s         ≤0.1           Relay outputs         Number of relays         Nr. 1           Relay state         Normally deenergised, energised, energises at tripping           Contact arrangement         1 changeover contact C/O-SPDT           Rated operational voltage AC (IEC)         VAC         220           Maximum switching voltage         VAC         380           IEC Conventional free air thermal current Ith         A         5           UL/CSA and IEC/EN 60947-5-1 designation         B300           Electrical life (with rated load)         cycles         2.5 x 10 <sup>5</sup>	·			
Resetting time       s       ≤0.1         Relay outputs       Nr.       1         Number of relays       Nr.       1         Relay state       Normally deenergised, energised, energises at tripping         Contact arrangement       1 changeover contact C/O-SPDT         Rated operational voltage AC (IEC)       VAC       220         Maximum switching voltage       VAC       380         IEC Conventional free air thermal current lth       A       5         UL/CSA and IEC/EN 60947-5-1 designation       B300         Electrical life (with rated load)       cycles       2.5 x 10 <sup>5</sup>	•		s	≤0.05
Relay outputsNumber of relaysNr.1Relay stateNormally deenergised, energised, energises at trippingContact arrangement1 changeover contact C/O-SPDTRated operational voltage AC (IEC)VAC220Maximum switching voltageVAC380IEC Conventional free air thermal current IthA5UL/CSA and IEC/EN 60947-5-1 designationB300Electrical life (with rated load)cycles2.5 x 10 <sup>5</sup>			S	≤0.1
Relay state  Relay state  Normally deenergised, energises at tripping  1 changeover contact arrangement  Contact arrangement  Rated operational voltage AC (IEC)  Maximum switching voltage  VAC 220  Maximum switching voltage  VAC 380  IEC Conventional free air thermal current Ith  A 5  UL/CSA and IEC/EN 60947-5-1 designation  Electrical life (with rated load)  Rormally deenergised, energised, energised, energised at tripping  1 changeover contact C/O-SPDT  VAC 220  Maximum switching voltage  VAC 380  IEC Conventional free air thermal current Ith  A 5  UL/CSA and IEC/EN 60947-5-1 designation  Electrical life (with rated load)	Relay outputs			
Relay state  energised, energises at tripping  Contact arrangement  Contact arrangement  Rated operational voltage AC (IEC)  Maximum switching voltage  VAC 220  Maximum switching voltage  VAC 380  IEC Conventional free air thermal current Ith  A 5  UL/CSA and IEC/EN 60947-5-1 designation  Electrical life (with rated load)  Renergised, energised, energised, energised, energises at tripping  1 changeover contact C/O-SPDT  A 5  UL/CSA 380  B300  Electrical life (with rated load)  Cycles 2.5 x 10 <sup>5</sup>	Number of relays		Nr.	1
	Relay state			energised, energises at tripping
Maximum switching voltageVAC $380$ IEC Conventional free air thermal current IthA5UL/CSA and IEC/EN 60947-5-1 designationB300Electrical life (with rated load)cycles $2.5 \times 10^5$	Contact arrangement			contact C/O-
IEC Conventional free air thermal current IthA5UL/CSA and IEC/EN 60947-5-1 designationB300Electrical life (with rated load)cycles2.5 x 10⁵			VAC	220
UL/CSA and IEC/EN 60947-5-1 designation  Electrical life (with rated load)  B300  cycles 2.5 x 10 <sup>5</sup>			VAC	380
Electrical life (with rated load) cycles 2.5 x 10 <sup>5</sup>			Α	
Mechanical life cycles 50x10 <sup>6</sup>			cycles	
	Mechanical life		cycles	50x10 <sup>6</sup>

**ENERGY AND AUTOMATION** 

## LEVEL MONITORING RELAY, PLUG-IN VERSION, SINGLE-VOLTAGE. AUTOMATIC RESETTING, 110...120VAC

Indications			
Indication			1 red LED for
			relay state
Connections			
Terminals type			plug-in
Insulations		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	445
Rated insulation voltage Ui		V	415
Rated impulse withstand voltage Uimp		kV	5
Operating frequency withstand voltage		kV	2
Ambient conditions			
Temperature			
Operating temperature		°C	-20
	min max	°C	-20 +60
Storage temperature	IIIax	C	+60
Storage temperature	min	°C	-30
	max	°C	+80
Housing	IIIdx		100
i lodoling			8-pin plug-in
Execution			housing (socket
			S8)
Material			Self-extinguishing
Iviaterial			polycarbonate
			35mm DIN rail
Mounting			(IEC/EN 60715)
			or 8-pin plug-in
IFO de man est a materita a			housing
IEC degree of protection		mm	1P30 38 x 76 x 70
Dimensions (W x H x D)		mm	
Weight Dimensions		g	263

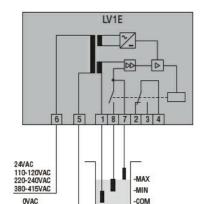




### Wiring diagrams

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## LEVEL MONITORING RELAY, PLUG-IN VERSION, SINGLE-VOLTAGE. AUTOMATIC RESETTING, 110...120VAC



#### Certifications and compliance

Compliance

IEC/EN 60255-5

Certificates

EAC

#### ETIM classification

ETIM 8.0

EC001447 - (Fill) level monitoring relay