

# RELAIS DE CONTRÔLE DE NIVEAU MODULAR, FONCTION DE VIDANGE 1 CONTACT INVERSEUR, 110-127VAC

|  |           |        | Level control  |
|--|-----------|--------|--|
| Product designation  |           |        | relay for<br>emptying<br>function. Single<br>voltage. Modular<br>version                 |
| Product type designation   |           |        | LVM20  |
| Function   |           |        | Emptying   |
| Auxiliary supply   |           |        |  |
| Supply voltage Type  |           |        | Single voltage   |
| Rated auxiliary supply voltage Us  |           |        |  |
| AC   |           |        |  |
|  | min       | VAC    | 110  |
|  | Max       | VAC    | 127  |
| Operating voltage range  |           |        | 0.851.1 Us   |
| Rated frequency  |           | Hz     | 50/60  |
| Power consumption Max  |           | VA     | 3.5  |
| Power dissipation Max  |           | W      | 1.8  |
| Output characteristics   |           |        |  |
| Number of connectable electrodes   |           | Nr.    | 3  |
| Type of electrode  |           |        | Electrode and<br>electrode<br>holders: SN1 /<br>SCM / CGL /<br>PS31 / PS3S or<br>similar |
| Electrode voltage  |           |        | 7.5 VAC  |
|  |           | 1.0    | 2.550  |
| Sensitivity  |           | kΩ     | adjustable   |
| Time delay   |           |        |  |
| Tripping time  |           | S      | ≤0.6   |
| Resetting time   |           | S      | ≤0.75  |
| Relay outputs  |           |        |  |
| Number of relays   |           | Nr.    | 1  |
| Relay state  |           |        | Normally de-<br>energised,<br>energises at<br>tripping                                   |
| Contact arrangement  |           |        | 1 changeover<br>contact C/O-<br>SPDT   |
| Rated operational voltage AC (IEC)   |           | VAC    | 250  |
| Maximum switching voltage  |           | VAC    | 400  |
| IEC Conventional free air thermal current Ith  |           | Α      | 8  |
| UL/CSA and IEC/EN 60947-5-1 designation  |           |        | B300   |
| Electrical life (with rated load)  |           | cycles | 10 <sup>5</sup>  |
| Mechanical life  |           | cycles | 30x10 <sup>6</sup>   |
| The abayestavistics described in this decument are subject to undates on the different control of the control o | laaaninti | . ,    |  |

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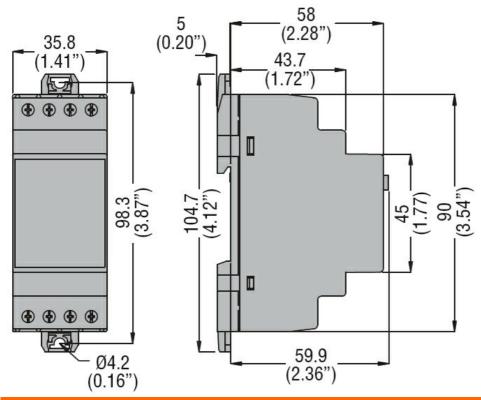
| Indications  |     |      |                  |
|--|-----|------|------------------|
|  |     |      | 1 green LED for  |
| Indication   |     |      | power on 1 red   |
|  |     |      | LED for relay    |
| Functions  |     |      | state            |
| Functions 2. detection allegation (MINI MAX and COM)           |     |      | Van              |
| 3 detecting electrodes (MIN, MAX and COM)                      |     |      | Yes              |
| 5 detecting electrodes (MIN1, MAX1, MIN2, MAX2 and COM         |     |      | No               |
| Sensitivity adjustment 2.550k Ω                                |     |      | Yes              |
| Sensitivity adjustment 2.5100k Ω                               |     |      | No               |
| Sensitivity adjustment 2.5200k Ω                               |     |      | No               |
| Adjustable sensitivity full-scale value 25-50-100-200 k Ω      |     |      | No               |
| Separate sensitivity adjustment for MAX probe (foam detection) |     |      | No               |
| Emptying function  |     |      | Yes              |
| Filling function   |     |      | No               |
| Emptying function with MIN and/or MAX alarm                    |     |      | No               |
| Filling function with MIN and/or MAX alarm                     |     |      | No               |
| Emptying function with pump priority change                    |     |      | No               |
| Filling function with pump priority change                     |     |      | No               |
| Tank filling, well drawing and alarm                           |     |      | No               |
| Filling-emptying adjustment selector                           |     |      | No               |
| Programming selector for 5 different                           |     |      | No               |
| Motor start-up priority change                                 |     |      | No               |
| Connections  |     |      |                  |
| Terminals type   |     |      | Screw            |
| Tightening torque for terminals                                |     |      | _                |
|  | max | Nm   | 0.8              |
|  | max | lbin | 7                |
| Conductor cross section  |     |      | _                |
| AWG/Kcmil  |     |      |                  |
|  | min | AWG  | 24               |
|  | Max | AWG  | 12               |
| IEC  |     |      | _                |
|  | min | mm²  | 0.2              |
|  | Max | mm²  | 4                |
| Insulations  |     |      |                  |
| Rated insulation voltage Ui                                    |     | V    | 415              |
| Rated impulse withstand voltage Uimp                           |     | kV   | 6                |
| Operating frequency withstand voltage                          |     | kV   | 4                |
| Double insulation Supply / relay / electrode                   |     | VAC  | ≤250             |
| Ambient conditions   |     |      |                  |
| Temperature  |     |      |                  |
| Operating temperature  |     |      |                  |
| · · · · · · · · · · · · · · · · · · ·                          | min | °C   | -20              |
|  | max | °C   | +60              |
| Storage temperature  |     |      | _                |
| ,  | min | °C   | -30              |
|  | max | °C   | +80              |
| Housing  |     |      |                  |
|  |     |      | Modular DIN rail |
| Execution  |     |      | mounting         |
| N° of modules  |     |      | 2                |
|  |     |      |                  |

**ENERGY AND AUTOMATION** 

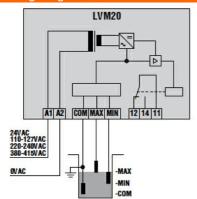
## RELAIS DE CONTRÔLE DE NIVEAU MODULAR, FONCTION DE VIDANGE 1 CONTACT INVERSEUR, 110-127VAC

| Mounting or by screws using extractable clips  IEC degree of protection IP40 on front / | Material                 |    | Self-extinguishing polyamide                        |
|---|--------------------------|----|---|
| Dimensions (W x H x D)  mm 35.8 x 104.7 x 64.9  | Mounting                 |    | (IEC/EN 60715)<br>or by screws<br>using extractable |
| Dimensions (WX H X D)  64.9   | IEC degree of protection |    | IP40 on front /<br>IP20 on terminals                |
| Weight g 215  | Dimensions (W x H x D)   | mm |   |
|   | Weight                   | g  | 215   |

#### **Dimensions**



### Wiring diagrams



### Certifications and compliance

Compliance

CSA C22.2 n° 14.

IEC/EN 60255-5

IEC/EN 61000-6-2

IEC/EN 61000-6-3



## LVM20A127

relay

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|                     | UL508 |                   |
|---------------------|-------|-------------------|
| Certificates        |       |                   |
|                     | cULus |                   |
|                     | EAC   |                   |
| ETIM classification |       |                   |
| ETIM 8.0            |       | EC001447 - (Fill) |