

# LEVEL MONITORING RELAY, MODULAR VERSION, SINGLE-VOLTAGE. AUTOMATIC RESETTING, 380...415VAC

		A A 1 H
Product designation  Product type designation		Level control relay for emptying function. Single voltage. Modular version LVM20
Function		Emptying
Auxiliary supply		
Supply voltage Type		Single voltage
Rated auxiliary supply voltage Us		
AC		
	min VAC	380
·	Max VAC	415
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 electrode holders: SN1 / SCM / CGL / PS31 / PS3S or similar
Electrode voltage		7.5 VAC
Sensitivity	kohm	2.550 adjustable
Time delay		
Tripping time	s	≤0.6
Resetting time	S	≤0.75
Relay outputs		
Number of relays	Nr.	1
Relay state		Normally de- energised, energises at tripping
Contact arrangement		1 changeover contact C/O- 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	s 10 <sup>5</sup>
Mechanical life	cycles	30x10 <sup>6</sup>

**ENERGY AND AUTOMATION** 

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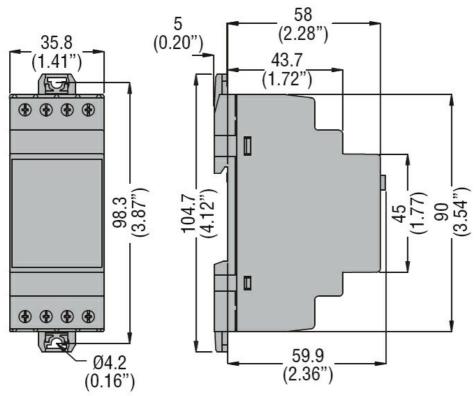
Indications			
			1 green LED for
Indication			power on 1 red
Indication			LED for relay
			state
Functions			
3 detecting electrodes (MIN, MAX and COM)			Yes
5 detecting electrodes (MIN1, MAX1, MIN2, MAX2 and COM			No
Sensitivity adjustment 2.550k Ω			Yes
Sensitivity adjustment 2.5100k Ω			No
Sensitivity 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			
Execution			Modular DIN rail
9			mounting
N° of modules			2

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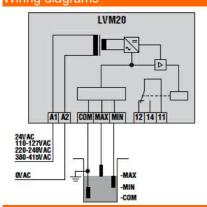
## LEVEL MONITORING RELAY, MODULAR VERSION, SINGLE-VOLTAGE. AUTOMATIC RESETTING, 380...415VAC

Material		Self-extinguishing polyamide
Mounting		35mm DIN rail (IEC/EN 60715) or by screws using extractable clips
IEC degree of protection		IP40 on front / IP20 on terminals
Dimensions (W x H x D)	mm	35.8 x 104.7 x 64.9
Weight	g	215

#### Dimensions [mm (in)]



### Wiring diagrams



#### Certifications and compliance

Compliance

LVM20A415

CSA C22.2 n° 14

IEC/EN 60255-5

IEC/EN 61000-6-2

IEC/EN 61000-6-3



### LVM20A415

LEVEL MONITORING RELAY, MODULAR VERSION, SINGLE-VOLTAGE. AUTOMATIC RESETTING, 380...415VAC

	UL508	
Certificates		
	cULus	
	EAC	
ETIM classification		
ETIM 8.0		EC001447 - (Fill) level monitoring relay