Lovato electric — ENERGY AND AUTOMATION

Product designation		Micro PLC - Base module
Product type designation		LRD20RA240
Auxiliary supply voltage		100…240VAC
Number of inputs	Nr.	12 digital
Number of outputs	Nr.	8 relay
Max I/O number		20 (12 inputs + 8 outputs) up to 44 with LRE modules

Power supply

Rated auxil. supply voltage		100…240VAC
Operating voltage range		85…265VAC
Operating frequency range	Hz	47…63
Avarage current consumption	mA	100
Power consumption Max	W	7.5

Digital inputs

Number of digital input		Nr.	12
Rated voltage		V	100-240VAC (50/60Hz)
Input signals	State 0 (OFF)		<40VAC
	State 1 (ON)		>79VAC
Response time	0 to 1 (OFF-ON)		50/45ms (Ue=120VAC); 22/18ms (Ue=240VAC)
	1 to 0 (ON-OFF)		50/45ms (Ue= 120VAC); 90/85ms (Ue= 240VAC)

Digital outputs

Number of digital output	Nr.	8
type		Relay

System resources

Display	LCD display, 4 lines x 16 characters

Connections

Terminals type			Screw
Tightening torque for terminals	max	Nm	0.6
	Max	lbft	0.4
Conductor section			
AWG/Kcmil			

		min		26
		max		14
IEC				
		min	mm²	0.14
		max	mm²	2.5

Ambient conditions

Temperature

Operating temperature			
	min	°C	-20
	max	°C	+55

Storage temperature			
	min	°C	-40
	max	°C	+70

Relative humidity		%	20...90% without condensation

Housing

Mounting		35mm DIN rail or screw fixing (M4x20mm)
Degree of protection		IP20
Dimensions (W x H x D)	mm	126 x 106 x 59.6
Weight	g	367

Dimensions
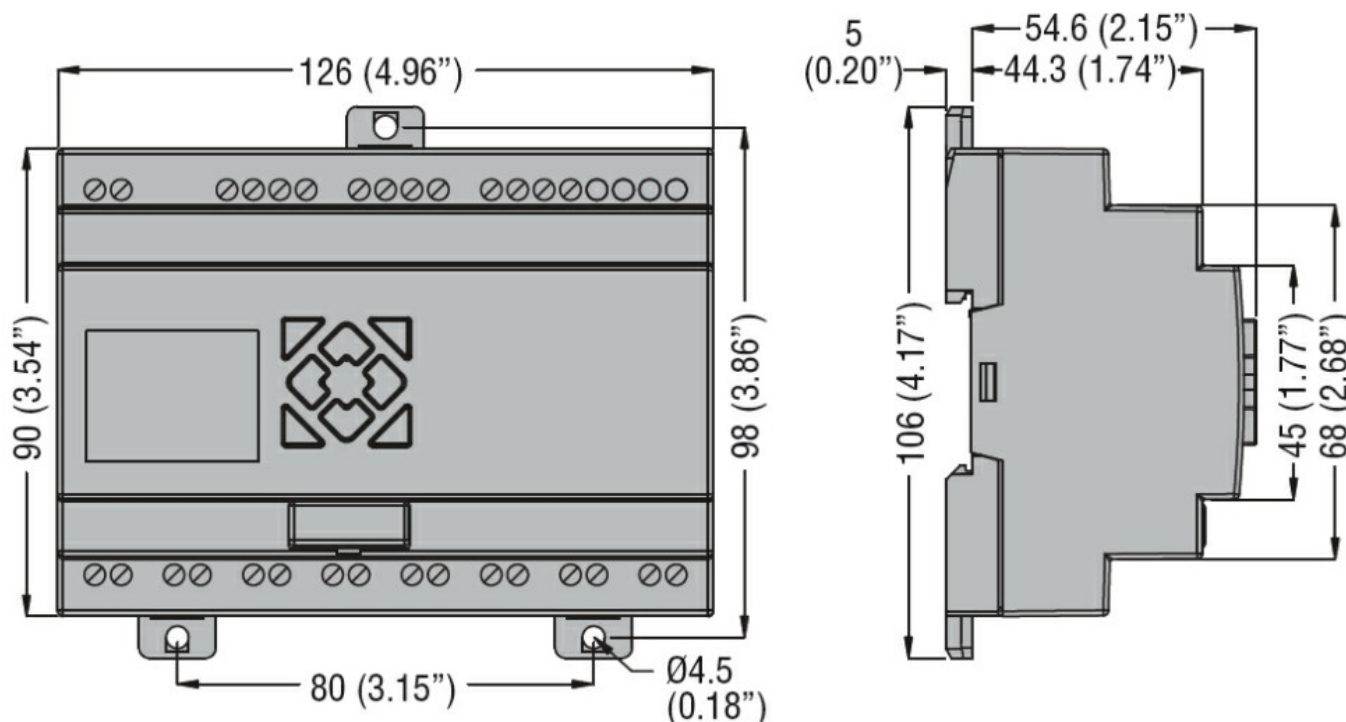
Wiring diagrams
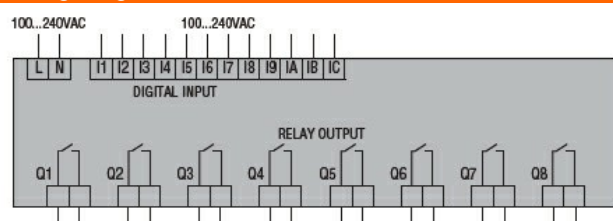
Certifications and compliance

Compliance

	CSA C22.2 n° 142
	IEC/EN 61131-2
	UL508
Certificates	
	cULus
	EAC

ETIM classification

ETIM 8.0	EC001417 - Logic module

LRD20RA240

The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding

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