Lovato electric
ENERGY AND AUTOMATION

Product designation			MODULAR CONTACTOR
Product type designation			CNM
Operating voltage type			AC/DC
Manual control			YES
Number of poles			2
Number of DIN modules			1
Electrical features			
IEC Conventional free air thermal current Ith		A	32
Operational current AC1 and AC-7a ≤400V		A	32
Operational current AC-3 and AC-7b ≤400V		A	9
Rated insulation voltage Ui IEC/EN		V	440
Rated impulse withstand voltage Uimp		kV	4
Minimum switching capacity			≥17V ≥50mA
Power dissipation per pole (average value) Ith		W	2.5
Control circuit			
Auxiliary rated supply voltage Us			24VAC/DC
Auxiliary contacts			
	NO	Nr.	2
Average coil consumption ≤20°C			
	in-rush	W	2.5
	holding	W	2.5
Operating voltage			
pick-up			
	min	%Us	85
	max	%Us	110
drop-out			
	min	%Us	20
	max	%Us	75
Operating times			
Average time			
Closing NO			
	min	ms	15
	max	ms	45
Opening NO			
	min	ms	25
	max	ms	50
Operations			
Mechanical life		cycles	3000000
Electrical life AC-3		cycles	500000
Electrical life AC1		cycles	150000
Ambient conditions			
Operating temperature			
	min	°C	-25
	max	°C	+70

Storage temperature			
	min	°C	-30
	max	°C	80
Max altitude		m	2000

Mechanical features

Fixing			DIN rail 35mm
Tightening torque for coil terminal			
	max	Nm	0.6
	max	lbin	0.6
Tightening torque for terminals			
	max	Nm	1.2
	max	lbin	0.9
Conductor section			
Coil terminal			
	min	mm²	1
	max	mm²	2.5
Power terminal			
	min	mm²	1
	max	mm²	10
Terminals tool			PZ2
Weight		g	135

Resistance & Protection

Frontal IP degree	IP20
Pollution degree	3

Dimensions
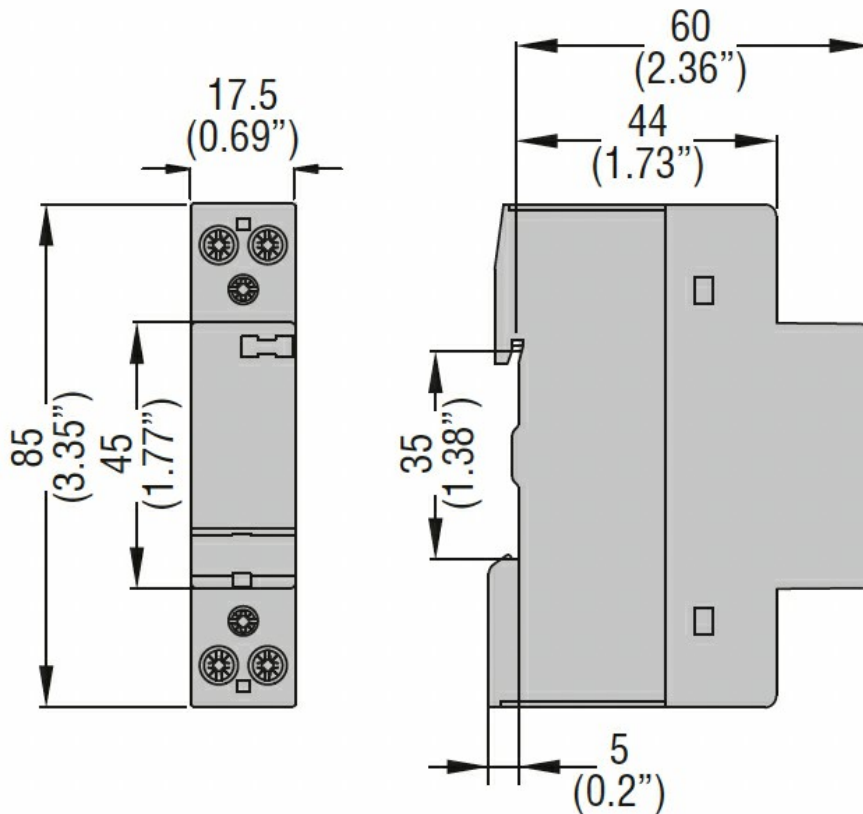
Wiring diagrams
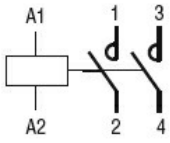
Certifications and compliance

Compliance

	IEC/EN 60947-1
	IEC/EN 60947-4-1
	IEC/EN 60947-5-1
	IEC/EN 61095

Certificates

	EAC

ETIM classification

ETIM 8.0	EC000066 - Power contactor, AC switching