



Product type designation

B310

Contact characteristics

Number of poles	nr.	3
Rated insulation voltage U_i	V	1000
Rated impulse withstand voltage U_{imp}	kV	8
Operating frequency		
	Operational frequency min	Hz 25
	Operational frequency max	Hz 400
Conventional free air thermal current I_{th}	A	450
Operating current		
	Operational current AC3 ($\leq 440V \leq 55^\circ C$)	A 320
	Operational current AC4 (400V)	A 110
Short-time allowable current for 10s (IEC/EN60947-1)	A	2900
Protection fuse		
	gG (IEC)	A 500
	aM (IEC)	A 400
Making capacity (RMS value)	A	3150
Breaking capacity at voltage		
	Breaking capacity 440V	A 3000
	Breaking capacity 500V	A 2700
	Breaking capacity 690V	A 2520
Resistance per pole (average value)	m Ω	0.2
Power dissipation per pole (average value)		
	Power dissipation pole (average value) I_{th}	W 40.5
	AC3	W 20
Tightening torque for terminals		
	min	Nm 35
	max	Nm 35
	min	lbft 25.8
	max	lbft 25.8
Tightening torque for coil terminal		
	min	Nm 1
	max	Nm 1
	min	lbft 0.74
	max	lbft 0.74

Ambient conditions

Temperature

Operating temperature

min	$^\circ C$	-50
max	$^\circ C$	70

Storage temperature

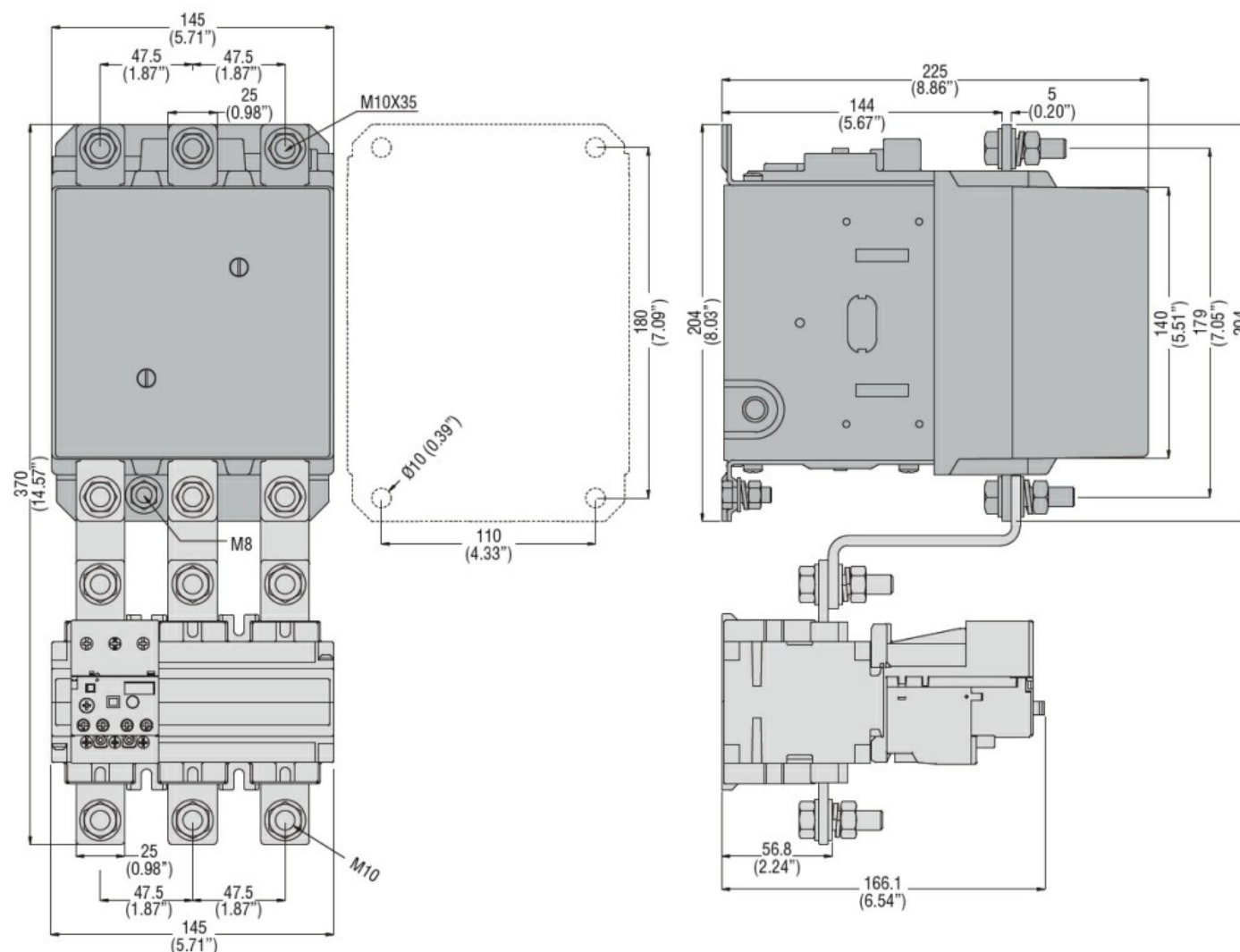
min	$^\circ C$	-60
max	$^\circ C$	80

Max altitude

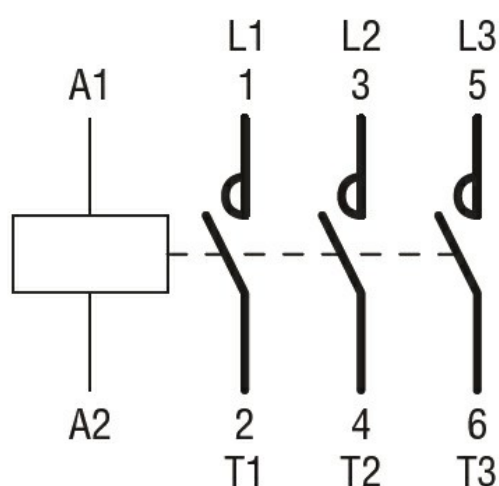
m 3,000

Operating position

	normal allowable		Vertical plan ±30°
Mounting			Screw / DIN rail 35mm
Weight		g	9.575
Operations			
Mechanical life		Cycles	10,000,000
Electrical life		Cycles	700000
Safety related data			
Mirror contacts according to IEC/EN 60947-4-1			Yes
EMC compatibility			Yes
AC coil operating			
Rated AC voltage at 50/60Hz, 60Hz		min V	24
		max V	480
AC operating voltage			
of 50/60Hz coil powered at 50Hz pick-up		min %Us	80
		max %Us	110
DC coil operating			
DC operating voltage			
Average coil consumption ≤20°C		in-rush W	300
		holding W	10
Max cycles frequency			
Mechanical operations		Cycles/h	3,600
Dimensions			



Wiring diagrams



Certifications and compliance

Certifications

CSA C22.2 n° 60947-1
CSA C22.2 n° 60947-4-1
IEC/EN 60947-1
IEC/EN 60947-4-1
UL 60947-1

UL 60947-4-1

Compliance

CCC

cULus

EAC

ETIM 6 classification

EC000066 - Power contactor, AC switching