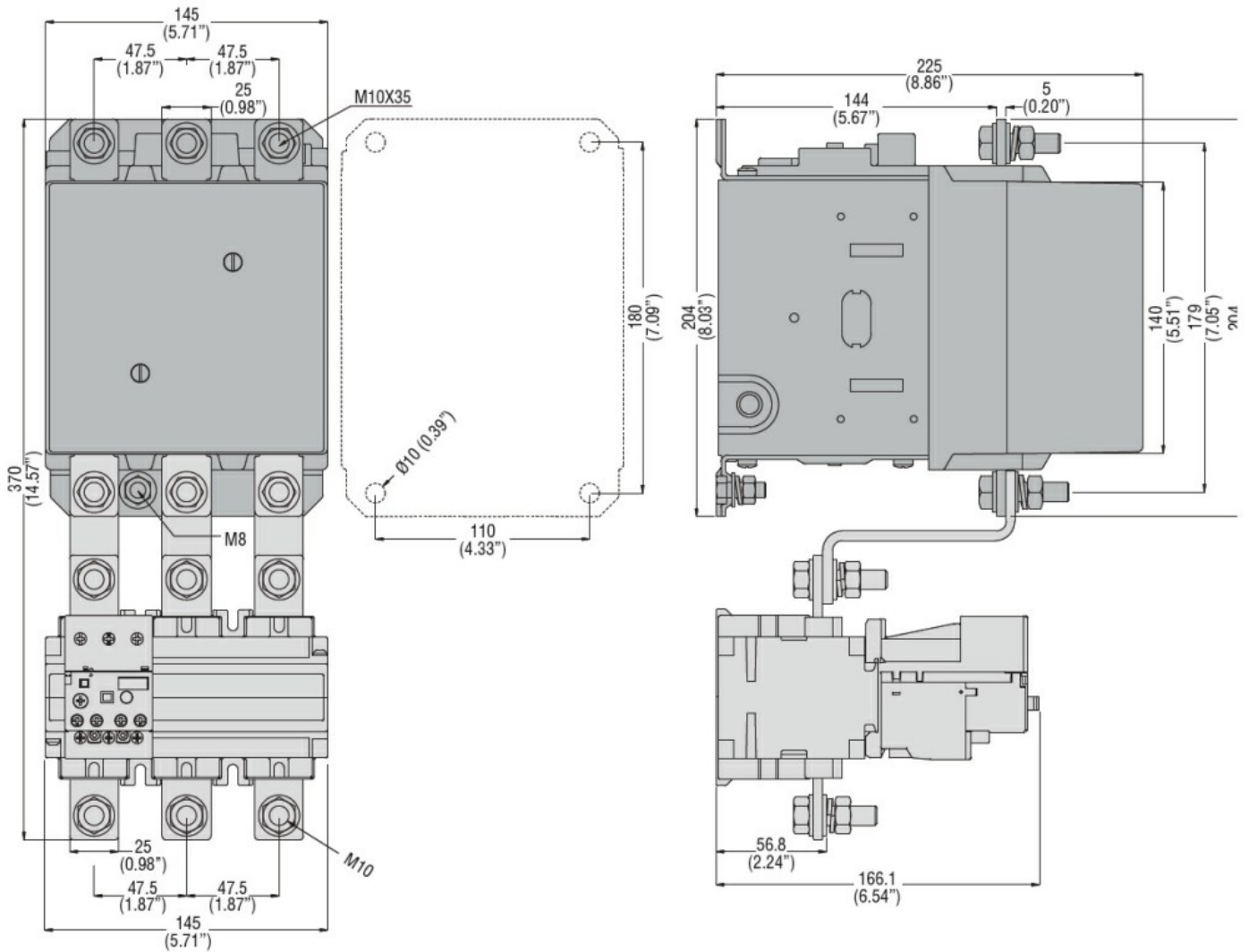




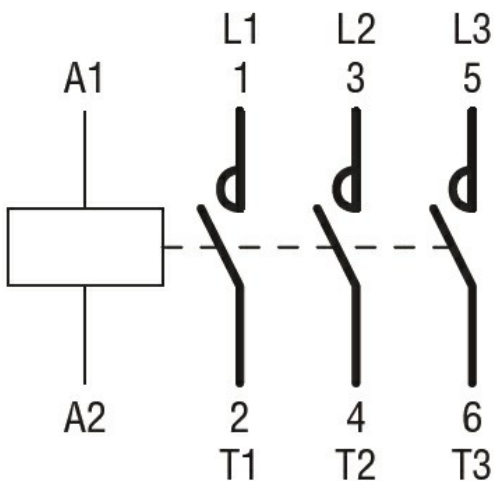
Product designation				Power contactor
Product type designation				B310
<b>Contact characteristics</b>				
Number of poles	nr.			3
Rated insulation voltage $U_i$	V			1000
Rated impulse withstand voltage $U_{imp}$	kV			8
Operating frequency	Operational frequency min	Hz		25
	Operational frequency max	Hz		400
	Conventional free air thermal current $I_{th}$	A		450
Operating current	Operational current AC1 ( $\leq 40^\circ\text{C}$ )	A		450
	Operational current AC3 ( $\leq 440\text{V} \leq 55^\circ\text{C}$ )	A		320
	Operational current AC4 (400V)	A		110
Rated operational power AC1 ( $T \leq 40^\circ\text{C}$ )	230V	kW		158
	400V	kW		270
	500V	kW		350
	690V	kW		488
Rated operational power AC3 ( $T \leq 55^\circ\text{C}$ )	230V	kW		100
	400V	kW		170
	415V	kW		188
	440V	kW		200
	500V	kW		213
	690V	kW		256
Short-time allowable current for 10s (IEC/EN60947-1)	1000V	kW		180
		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 $\Omega$		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

max number of wires simultaneously connectable		nr.	2
Conductor section	AWG		
		max	2x 3/0
Power terminal protection according to IEC/EN 60529			IP00
<b>Auxiliary contact characteristics</b>			
Operational current AC1 ( $\leq 40^{\circ}\text{C}$ )		A	450
Operating current DC13		110V	A Screw
<b>Ambient conditions</b>			
Temperature	Operating temperature		
		min	$^{\circ}\text{C}$ -50
		max	$^{\circ}\text{C}$ 70
	Storage temperature		
		min	$^{\circ}\text{C}$ -60
		max	$^{\circ}\text{C}$ 80
Max altitude		m	3000
Operating position		normal allowable	Vertical plan $\pm 30^{\circ}$
Mounting			Screw
Weight		g	9.52
<b>Operations</b>			
Mechanical life		Cycles	10000000
Electrical life		Cycles	700000
<b>Safety related data</b>			
Performance level B10d according to EN/ISO 13489-1		rated load mechanical load	Cicli 700000 Cicli 10000000
Mirror contacts according to IEC/EN 60947-4-1			yes
EMC compatibility			yes
<b>AC coil operating</b>			
AC operating voltage	of 50/60Hz coil powered at 50Hz		
	pick-up	min	%Us 0.8
		max	%Us 1.1
	drop-out	min	%Us 0.2
		max	%Us 0.6
	of 50/60Hz coil powered at 60Hz		
	pick-up	min	%Us 0.8
		max	%Us 1.1
	drop-out	min	%Us 0.2
		max	%Us 0.6
AC operating voltage	of 50/60Hz coil powered at 50Hz		
		in-rush holding	VA 300 VA 10
	of 50/60Hz coil powered at 60Hz		

		in-rush	VA	300
		holding	VA	10
Dissipation at holding $\leq 20^{\circ}\text{C}$ 50Hz				
			W	10
<b>DC coil operating</b>				
DC rated control voltage				
		min	V	24
DC operating voltage				
	pick-up			
		min	%Us	0.8
		max	%Us	1.10
	drop-out			
		min	%Us	0.2
		max	%Us	0.60
Average coil consumption $\leq 20^{\circ}\text{C}$				
		in-rush	W	300
		holding	W	10
<b>Max cycles frequency</b>				
Mechanical operations				Cycles/h 2400
<b>Operating times</b>				
Average time for Us control				
	in AC			
		Closing NO		
		min	ms	80
		max	ms	120
		Opening NO		
		min	ms	30
		max	ms	75
	in DC			
		Closing NO		
		min	ms	80
		max	ms	120
		Opening NO		
		min	ms	30
		max	ms	75
<b>UL technical data</b>				
Full-load current (FLA) for three-phase AC motor				
		at 480V	A	301
		at 600V	A	289
Yielded mechanical performance				
	for three-phase AC motor			
		at 200/208V	hp	100
		at 220/230V	hp	125
		at 460/480V	hp	250
		at 575/600V	hp	300
General USE				
	Contactor			
		AC current	A	450
<b>Other features</b>				
Pollution degree				3
<b>Dimensions</b>				



### 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

Compliance	UL 60947-4-1
	CCC
	cULus
	EAC

**ETIM 6 classification**  
EC000066 - Power contactor, AC switching