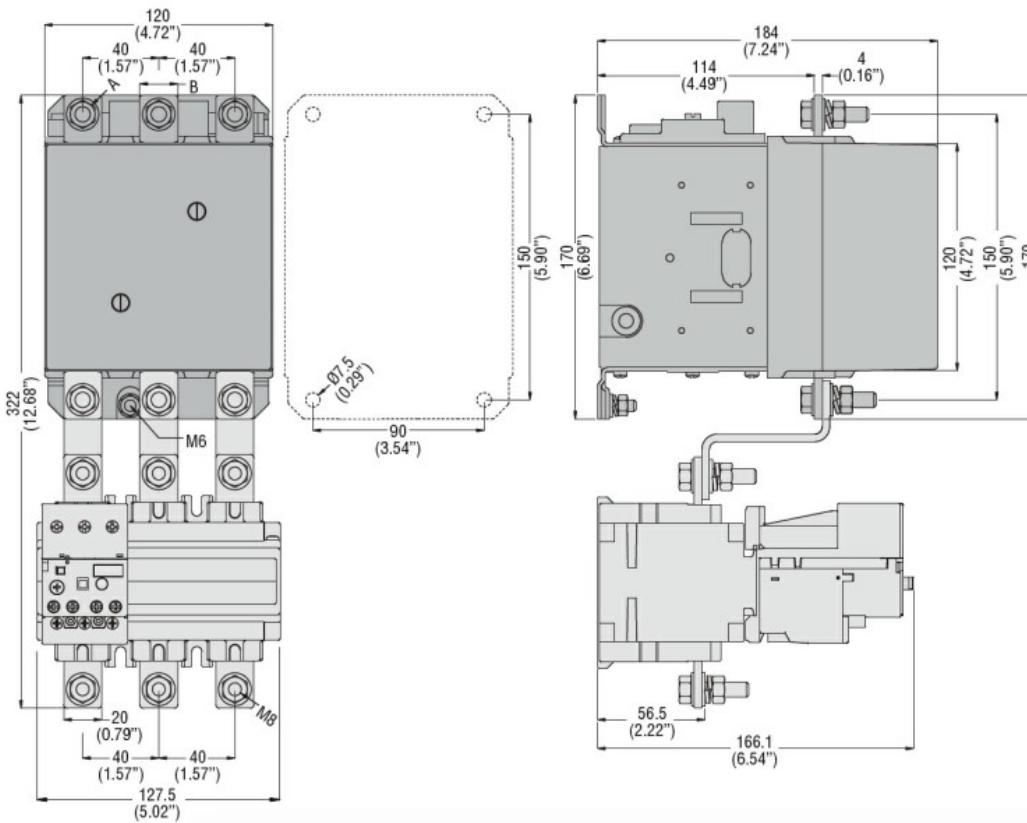




Product designation				Power contactor
Product type designation				B180
Contact characteristics				
Number of poles	nr.	3		
Rated insulation voltage U_i	V	1000		
Rated impulse withstand voltage U_{imp}	kV	8		
Operating frequency	Operational frequency min	Hz	25	
	Operational frequency max	Hz	400	
Conventional free air thermal current I_{th}	A	275		
Operating current	Operational current AC1 ($\leq 40^\circ\text{C}$)	A	275	
	Operational current AC3 ($\leq 440\text{V} \leq 55^\circ\text{C}$)	A	185	
	Operational current AC4 (400V)	A	65	
Rated operational power AC1 ($T \leq 40^\circ\text{C}$)	230V	kW	95	
	400V	kW	160	
	500V	kW	213	
	690V	kW	298	
Rated operational power AC3 ($T \leq 55^\circ\text{C}$)	230V	kW	57	
	400V	kW	100	
	415V	kW	708	
	440V	kW	115	
	500V	kW	123	
	690V	kW	144	
1000V	kW	103		
Short-time allowable current for 10s (IEC/EN60947-1)	A	1500		
Protection fuse	gG (IEC)	A	315	
	aM (IEC)	A	200	
Making capacity (RMS value)	A	1850		
Breaking capacity at voltage	Breaking capacity 440V	A	1850	
	Breaking capacity 500V	A	1600	
	Breaking capacity 690V	A	1480	
Resistance per pole (average value)	m Ω	0.3		
Power dissipation per pole (average value)	Power dissipation pole (average value) I_{th}	W	20.3	
	AC3	W	9.7	
Tightening torque for terminals	min	Nm	18	
	max	Nm	18	
	min	lbft	13.3	
	max	lbft	13.3	

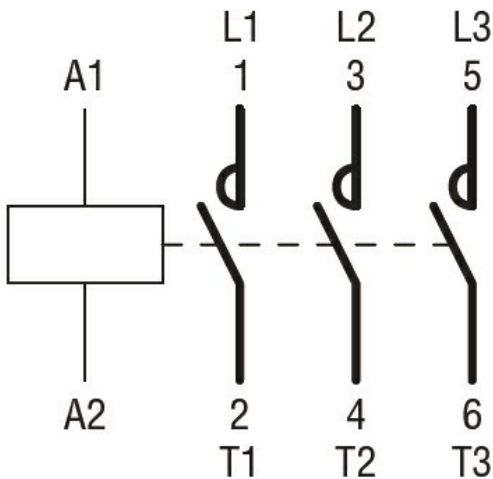
max number of wires simultaneously connectable		nr.	2
Conductor section	AWG	max	300 kcmil
Power terminal protection according to IEC/EN 60529			IP00
Auxiliary contact characteristics			
Operational current AC1 ($\leq 40^{\circ}\text{C}$)		A	275
Operating current DC13		110V A	Screw
Ambient conditions			
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	5.43
Operations			
Mechanical life		Cycles	10000000
Electrical life		Cycles	1000000
Safety related data			
Performance level B10d according to EN/ISO 13489-1		rated load mechanical load	Cicli 1000000 Cicli 10000000
Mirror contacts according to IEC/EN 60947-4-1			yes
EMC compatibility			yes
AC coil operating			
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 ≤20°C 50Hz				
			W	10
DC coil operating				
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 ≤20°C				
		in-rush	W	300
		holding	W	10
Max cycles frequency				
Mechanical operations				Cycles/h 2400
Operating times				
Average time for Us control				
	in AC			
		Closing NO		
		min	ms	60
		max	ms	100
		Opening NO		
		min	ms	25
		max	ms	60
	in DC			
		Closing NO		
		min	ms	60
		max	ms	100
		Opening NO		
		min	ms	25
		max	ms	60
UL technical data				
Full-load current (FLA) for three-phase AC motor				
		at 480V	A	180
		at 600V	A	144
Yielded mechanical performance				
	for three-phase AC motor			
		at 200/208V	hp	60
		at 220/230V	hp	75
		at 460/480V	hp	150
		at 575/600V	hp	150
General USE				
	Contactor			
		AC current	A	275
Other features				
Pollution degree				3
Dimensions				



CONTACTOR TYPE	A	B
B115	M6	15 (0.59")
B145	M8	20 (0.79")
B180	M8	20 (0.79")

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