11B1800024

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 185A, AC/DC COIL, 24VAC/DC

Product designation			Power contactor
Product type designation			B180
Contact characteristics			
Number of poles		nr.	3
Rated insulation voltage Ui		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operating frequency			
	Operational frequency min	Hz	25
	Operational frequency max	Hz	400
Conventional free air thermal current Ith		A	275
Operating current			
	Operational current AC1 (≤40°C)	A	275
	Operational current AC3 (≤440V ≤55°C)	A	185
	Operational current AC4 (400V)	A	65
Rated operational power AC1 (T≤40°C)			
	230V	kW	95
	400V	kW	160
	500V	kW	213
	690V	kW	298
Rated operational power AC3 (T≤55°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)		mΩ	0.3
Power dissipation per pole (average value)			
	Power dissipation pole (average value) Ith	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 (≤40°C)			A	275
Operating current DC13				
		110V	A	Screw
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Operating position				
		normal		Vertical plan
		allowable		±30°
Mounting				Screw
Weight			g	5.45
Operations				
Mechanical life			Cycles	10000000
Electrical life			Cycles	1000000
Safety related data				
Performance level B10d according to EN/ISO 13489-1				
		rated load	Cicli	1000000
		mechanical load	Cicli	10000000
Mirror contats according to IEC/EN 609474-4-1				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	VA	300
		holding	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 consuption ≤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				

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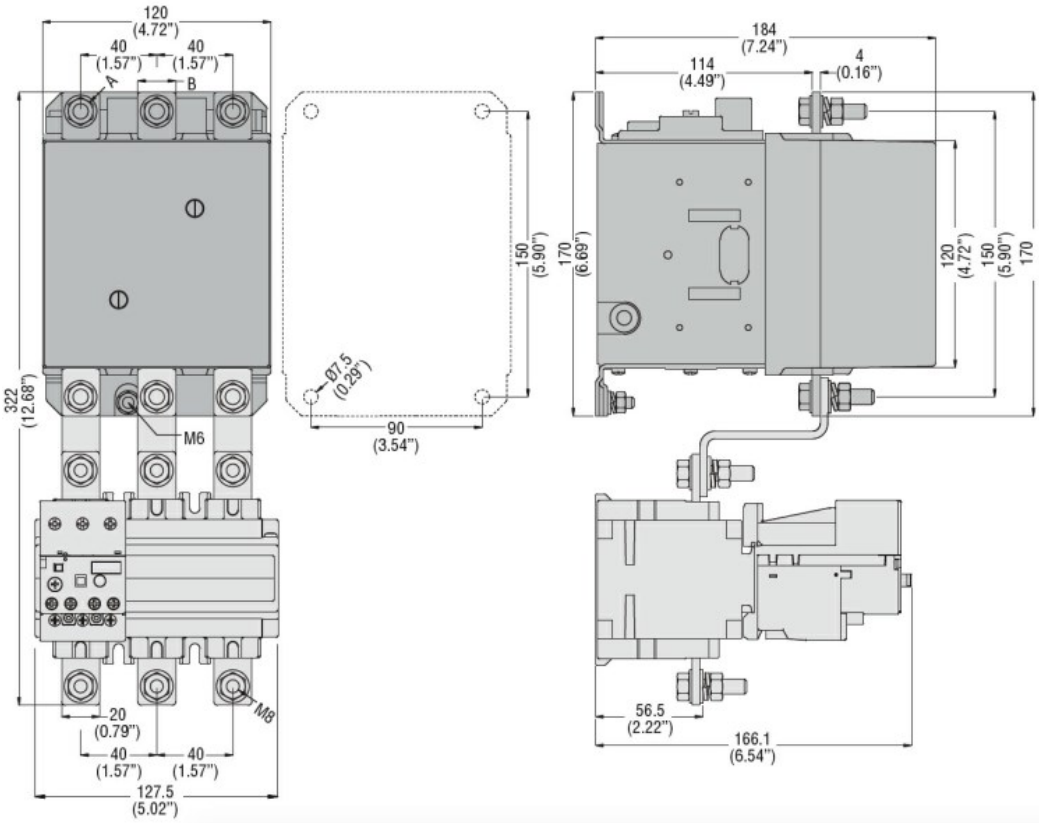
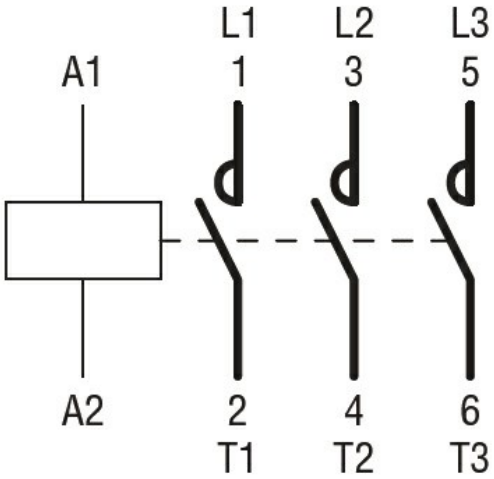


CONTACTOR TYPE	A	B
B115	M6	15 (0.59")
B145	M8	20 (0.79")
B180	M8	20 (0.79")

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