



Product designation Product type designation			Power contactor B180
Contact characteristics			00
Number of poles		Nr.	4
Rated insulation voltage Ui IEC/EN		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operational frequency			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		Α	275
Operational current le			
'	AC-1 (≤40°C)	Α	275
	AC-1 (≤55°C)	Α	250
	AC-1 (≤70°C)	Α	200
	AC-3 (≤440V ≤55°C)	Α	185
	AC-4 (400V)	Α	65
Rated operational power AC-1 (T≤40°C)	, ,		
	230V	kW	95
	400V	kW	160
	500V	kW	213
	690V	kW	298
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
	75V	Α	260
	110V	Α	120
	220V	Α	_
	330V	Α	_
	460V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
	75V	Α	260
	110V	Α	170
	220V	Α	150
	330V	Α	_
	460V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
	75V	Α	260
	110V	Α	170
	220V	Α	170
	330V	Α	150
	460V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	75V	Α	260
	110V	Α	170
	220V	Α	170
	330V	Α	170
	460V	Α	150

EC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	75V	Α	180
	110V	Α	90
	220V	Α	_
	330V	Α	_
	460V	Α	_
EC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
· ·	75V	Α	180
	110V	Α	140
	220V	Α	100
	330V	Α	_
	460V	A	_
EC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	400 V		
in content le in Dos-Dos with L/N = 13ms with 5 poles in series	75\/	۸	100
	75V	A	180
	110V	A	160
	220V	A	140
	330V	Α	100
	460V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	75V	Α	180
	110V	Α	160
	220V	Α	160
	330V	Α	160
	460V	Α	100
Short-time allowable current for 10s (IEC/EN60947-1)		Α	1500
Protection fuse			
	gG (IEC)	Α	315
	aM (IEC)	Α	200
Making capacity (RMS value)	, ,	Α	1850
Breaking capacity at voltage			
	440V	Α	1850
	500V	Α	1600
	690V	Α	1480
Resistance per pole (average value)		mΩ	0.3
Power dissipation per pole (average value)		11132	0.0
Tower dissipation per pole (average value)	Ith	W	20.3
	AC-3	W	9.7
Tightening torque for terminals	A0-3	VV	9.1
rigitering torque for terminals	min	Nim	10
	min	Nm Nm	18 18
		Nm	
	max	[L.:	
	min	lbin	13.3
		lbin Ibin	13.3
Tightening torque for coil terminal	min max	lbin	13.3
Tightening torque for coil terminal	min max min	Ibin Nm	13.3
Tightening torque for coil terminal	min max min max	Nm Nm	13.3 1 1
Tightening torque for coil terminal	min max min	Nm Nm Ibin	13.3 1 1 0.74
Tightening torque for coil terminal	min max min max	Nm Nm	13.3 1 1 0.74 0.74
	min max min max min	Nm Nm Ibin	13.3 1 1 0.74
Max number of wires simultaneously connectable	min max min max min	Nm Nm Ibin Ibin	13.3 1 1 0.74 0.74
Tightening torque for coil terminal Max number of wires simultaneously connectable Conductor section AWG/Kcmil	min max min max min	Nm Nm Ibin Ibin	13.3 1 1 0.74 0.74
Max number of wires simultaneously connectable Conductor section	min max min max min	Nm Nm Ibin Ibin	13.3 1 1 0.74 0.74



Operating position

Operating position		normal		Vertical plan
		allowable		±30°
Fixing				Screw
Weight			g	6250
Conductor section				
	AWG/kcmil conductor section			
		max		300 kcmil
Operations				
Mechanical life			cycles	10000000
Electrical life			cycles	1000000
Safety related data				
Performance level B10	od according to EN/ISO 13489-1			
		rated load	cycles	1000000
		mechanical load	cycles	10000000
	ng to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating	2/0011			10
Rated AC voltage at 5	J/bUHZ		V	48
AC operating voltage	(50/0011 11 1 1 5011			
	of 50/60Hz coil powered at 50Hz			
	pick-up		0/11-	0.0
		min	%Us %Us	80 110
	drop-out	max	%US	110
	drop-out	min	%Us	20
		max	%Us	60
	of 50/60Hz coil powered at 60Hz	Παλ	7003	00
	pick-up			
	ριοκ αρ	min	%Us	80
		max	%Us	110
	drop-out			-
	•	min	%Us	20
		max	%Us	60
	of 60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	60
AC average coil consu	•			
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	300
	(20/0011	holding	VA	10
	of 50/60Hz coil powered at 60Hz		3.74	000
		in-rush	VA	300
Disabation (III)	<00°C FOLI-	holding	VA	10
Dissipation at holding:	SZUTU 5UHZ		W	10
DC coil operating	**		\/	40
DC rated control voltage	je		V	48
DC operating voltage	niak un			
	pick-up			

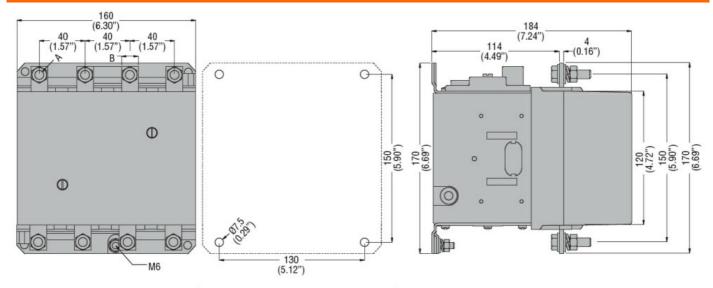


			min	%Us	80
			max	%Us	110
	drop-out				
			min	%Us	20
			max	%Us	60
Average coil consump	otion ≤20°C				
			in-rush	W	300
			holding	W	10
Max cycles frequency					
Mechanical operation				cycles/h	2400
Operating times					
Average time for Us co	ontrol				
-	in AC				
		Closing NO			
		· ·	min	ms	60
			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 i	motor			
,	•		at 480V	Α	180
			at 600V	Α	144
Yielded mechanical pe	erformance				
·	for three-phase AC	motor			
	,		200/208V	HP	60
			220/230V	HP	75
			575/600V	HP	150
General USE					
	Contactor				
			AC current	Α	275
Short-circuit protection	n fuse, 600V				
,	Standard fault				
			Short circuit current	kA	10
			Fuse rating	Α	500
			Fuse class		RK5
Ambient conditions					
Temperature					
•	Operating temperat	ture			
	, 5 - 1		min	°C	-50
			max	°C	70
	Storage temperatur	re			
	g- 10p 0.utul	-	min	°C	-60
			max	°C	80
Max altitude				m	3000
Resistance & Protection	on				
Pollution degree					3
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ENERGY AND AUTOMATION

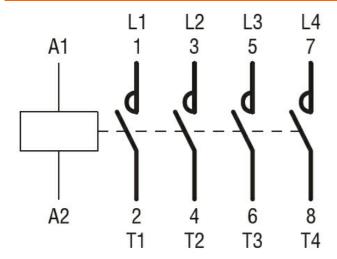
FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 275A, AC/DC COIL, 48VAC/DC

Dimensions



CONTACTOR TYPE	Α	В
B115	M6	15 (0.59")
B145	M8	20 (0.79")
B180	M8	20 (0.79")

Wiring diagrams



Certifications and compliance

Compliance

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

Certificates

CCC

cULus

EAC

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching



