



Product designation Product type designation			Power contactor B180
Contact characteristics			
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	Α	_
EC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	75V	Α	180
	110V	Α	160
	220V	Α	140
	330V	Α	100
	460V	Α	_
EC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	75V	Α	180
	110V	A	160
	220V	A	160
	330V	A	160
	460V	A	100
Short-time allowable current for 10s (IEC/EN60947-1)	400 V		1500
Protection fuse			1500
Protection ruse	~C (IEC)	۸	245
	gG (IEC)	A	315
Malian agradit (DMC calca)	aM (IEC)	A	200
Making capacity (RMS value)		Α	1850
Breaking capacity at voltage		_	
	440V	Α	1850
	500V	Α	1600
	690V	A	1480
Resistance per pole (average value)		mΩ	0.3
Power dissipation per pole (average value)			
	Ith	W	20.3
	AC-3	W	9.7
Fightening torque for terminals			
	min	Nm	18
	max	Nm	18
	min	Ibin	13.3
	max	Ibin	13.3
Fightening torque for coil terminal			
	min	Nm	1
	max	Nm	1
	min	lbin	0.74
	max	lbin	0.74
Max number of wires simultaneously connectable	Пах	Nr.	2
Conductor section		141.	<u> </u>
AWG/Kcmil			
AWG/NUIIII	max		300 kcmil
	HAX		JUU KUIIII
Power terminal protection according to IEC/EN 60529	THOX		IP00



Operating position

Operating position		normal		Vertical plan
		allowable		±30°
Fixing				Screw
Weight			g	6380
Conductor section				
	AWG/kcmil conductor section			
		max		300 kcmil
Operations				
Mechanical life			cycles	10000000
Electrical life			cycles	1000000
Safety related data				
Performance level B10	d according to EN/ISO 13489-1			
		rated load	cycles	1000000
		mechanical load	cycles	10000000
	g to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating	V/0011		17	0.4
Rated AC voltage at 50	//bUHZ		V	24
AC operating voltage	(= a/a a t			
	of 50/60Hz coil powered at 50Hz			
	pick-up		0/11	0.0
		min	%Us	80
	drap out	max	%Us	110
	drop-out	min	%Us	20
		min max	%Us	60
	of 50/60Hz coil powered at 60Hz	IIIax	/003	00
	pick-up			
	ріск-ир	min	%Us	80
		max	%Us	110
	drop-out	max	7003	110
	diop out	min	%Us	20
		max	%Us	60
	of 60Hz coil powered at 60Hz			
	pick-up			
	F. 200 @F	min	%Us	80
		max	%Us	110
	drop-out			
	·	min	%Us	20
		max	%Us	60
AC average coil consu	mption at 20°C			
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	300
		holding	VA	10
	of 50/60Hz coil powered at 60Hz		<u> </u>	
		in-rush	VA	300
		holding	VA	10
Dissipation at holding ≤	20°C 50Hz		W	10
DC coil operating				
DC rated control voltag	e		V	24
DC operating voltage				
	pick-up			

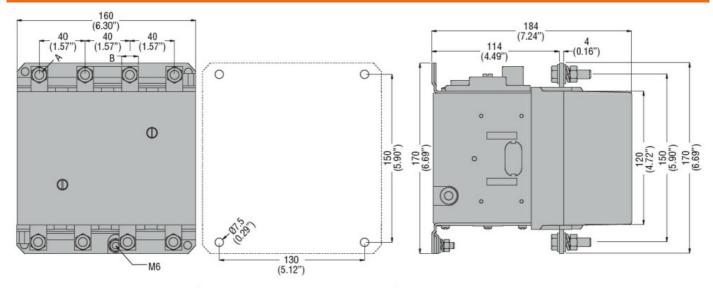


			min	%Us	80
			max	%Us	110
	drop-out				
			min	%Us	20
			max	%Us	60
Average coil consump	otion ≤20°C				
			in-rush	W	300
			holding	W	10
Max cycles frequency					
Mechanical operation				cycles/h	2400
Operating times					
Average time for Us co	ontrol				
-	in AC				
		Closing NO			
		· ·	min	ms	60
			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

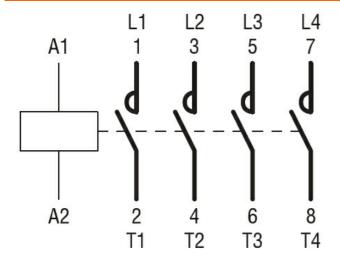
FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 275A, AC/DC COIL, 24VAC/DC

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



