



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
	440480V	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

ENERGY AND AUTOMATION

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IEC 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	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	75V	Α	180
	110V	Α	140
	220V	A	100
	330V	A	100
	460V		_
IFO was a support to in DO2 DO5 with 1/D < 45 and with 2 and a in action	460 V	Α	_
IEC 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	_
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)	100 V	A	1500
Protection fuse			1000
1 Totection ruse	gG (IEC)	Α	315
	aM (IEC)		200
Making conseits (DMC value)	aivi (IEC)	A A	
Making capacity (RMS value)		A	1850
Breaking capacity at voltage	4.401.4		40=0
	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
	AC3	W	9.7
Tightening torque for terminals			
	min	Nm	18
	max	Nm	18
	min	lbin	13.3
	max	lbin	13.3
Tightening torque for coil terminal	HIGA	15111	
Tighterning terque for conferminal	min	Nlm	1
	min	Nm Nm	1
	max	Nm	1
	min	lbft	0.74
Managed and Consider to	max	lbft	0.74
Max number of wires simultaneously connectable		nr.	2
Power terminal protection according to IEC/EN 60529			IP00
Mechanical features			
Operating position			
	normal		Vertical plan
	allowable		±30°



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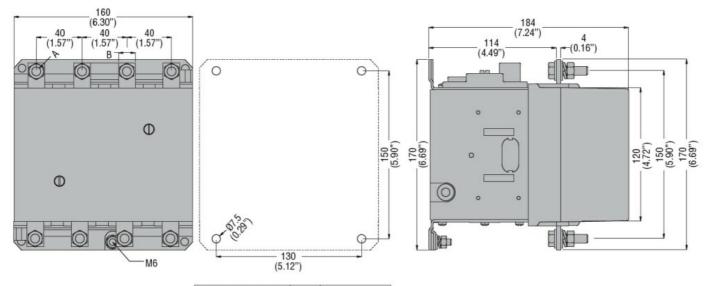
Fixing				Screw
Weight			g	6320
Operations				
Mechanical life			cycles	10000000
Electrical life			cycles	1000000
Safety related data			·	
•	od according to EN/ISO 13489-1			
	•	rated load	cycles	1000000
		mechanical load	cycles	10000000
Mirror contats according	ng to IEC/EN 609474-4-1		-	yes
EMC compatibility				yes
AC coil operating				·
Rated AC voltage at 50)/60Hz, 60Hz			
_		min	V	24
		max	V	480
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
	·	min	%Us	80
		max	%Us	110
	drop-out			
	·	min	%Us	20
		max	%Us	60
	of 50/60Hz coil powered at 60Hz			
	pick-up			
	· ·	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 operating voltage a				
	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	je			
		min	V	24
		max	V	500
DC operating voltage				
	pick-up			
		min	%Us	80
		max	%Us	110



	drop-out				
	·		min	%Us	20
			max	%Us	60
Average coil consump	tion ≤20°C				
7			in-rush	W	300
			holding	W	10
Max cycles frequency			Holding	• • • • • • • • • • • • • • • • • • • •	10
Mechanical operation				cycles/h	2400
Operating times				Cycles/11	2400
Average time for Us co	ontrol				
Average time for US Co					
	in AC	Ola aire a NO			
		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 mot	or			
,	•		at 480V	Α	180
			at 600V	Α	144
Yielded mechanical pe	erformance				
riolada modificilida pe	for three-phase AC mo	ntor			
	ioi tiliee-pilase AO ilit	i	200/208V	hp	60
			220/230V		75
			460/480V	hp hp	75 150
				hp bp	150
Cararal LICE			575/600V	hp	100
General USE	0				
	Contactor		40	Α.	075
A I			AC current	Α	275
Ambient conditions					
Temperature					
	Operating temperature	•			
			min	°C	-50
	-		max	°C	70
	Storage temperature				
			min	°C	-60
			max	°C	80
Max altitude				m	3000
Resistance & Protection	on				
Pollution degree					3
Dimensions					

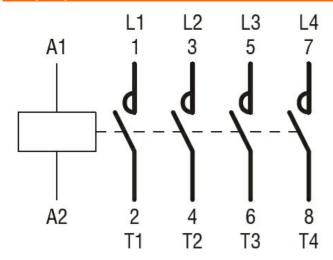


FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 275A, AC/DC COIL, 220...240VAC/DC



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