THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 185A, AC/DC COIL, **electric** ALREADY FITTED WITH MECHANICAL LATCH (G495), 110...125VAC/DC, MECHANICAL LATCH 110...125VDC

ENERGY AND AUTOMATION



Product designation			Power contactor
Product type designation			B180
Contact characteristics			
Number of poles		Nr.	3
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-3 (T≤55°C)			
	400V	kW	100
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

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ENERGY AND AUTOMATION

110...125VDC

	330V	Α	170
	460V	Α	150
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
120 max carrent to in 200 200 mar 2/1/2 forms mar 1 period in contes	75V	Α	180
	110V	A	90
	220V	A	_
	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	Α	100
	330V	Α	_
	460V	Α	_
IFC may current to in DC2 DC5 with L/D < 15mg with 2 notes in corios	400 V		
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	751		400
	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		160
		A	
	330V	A	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			
Distanting supusity at voltage	440V	Α	1850
	500V	A	1600
	690V	Α	1480
Resistance per pole (average value)		mΩ	0.3
Power dissipation per pole (average value)			
	Ith	W	20.3
	AC-3	W	9.7
Tightening torque for terminals			
5 · · · · · · · · · · · · · · · · · · ·	min	Nm	18
		Nm	18
	max		
	min	Ibin	13.3
	max	Ibin	13.3
Tightening torque for coil terminal			
	min	Nm	1
	max	Nm	1
	min	Ibin	0.74
	max	Ibin	0.74
Max number of wires simultaneously connectable	max	Nr.	2
Conductor section		1 111.	
AWG/Kcmil			0001 "
	max		300 kcmil

11B180L00110C110 The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding

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ENERGY AND AUTOMATION

110...125VDC

	tion according to IEC/EN 60529			IP00
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw
Weight			g	6090
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			
	G	rated load	cycles	1000000
		mechanical load	cycles	10000000
Mirror contats according	ng to IEC/EN 609474-4-1		,	yes
EMC compatibility	<u> </u>			yes
AC coil operating				,
Rated AC voltage at 50	0/60Hz 60Hz			
tated AO voltage at or	0,001 12, 001 12	min	V	110
		max	V	125
AC operating voltage		IIIdA	v	123
AC operating voitage	of E0/60Hz poil powered at E0Hz			
	of 50/60Hz coil powered at 50Hz			
	pick-up		0/11-	00
		min	%Us	80
	dos sud	max	%Us	110
	drop-out		0/11-	00
		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 average coil consu	imption at 20°C			
J	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	300
		holding	VA	10
	of 50/60Hz coil powered at 60Hz	Holding	VA	.0
	or 50/001 iz con powered at 001 iz	in-rush	VA	300
Disabseties -41 -11	<00°C FOLI-	holding	VA	10
Dissipation at holding :	≥ZU U 5UHZ		W	10

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ENERGY AND AUTOMATION 110...125VDC

DC coil operating					
DC rated control voltag	е				
			min	V	110
			max	V	125
DC operating voltage					
	pick-up				
			min	%Us	80
			max	%Us	110
	drop-out				
			min	%Us	20
A "	. 10000		max	%Us	60
Average coil consumpt	ion ≤20°C		to much	14/	200
			in-rush	W	300
May avalag fraguesia			holding	W	10
Max cycles frequency				l/l-	0.400
Mechanical operation				cycles/h	∠4UU
Operating times	ntrol				
Average time for Us co	in AC				
		Closing NO			
	,	Closing NO	min	ms	60
			max	ms	100
		Opening NO	Παλ	1113	100
	· ·	Opening NO	min	ms	25
			max	ms	60
	in DC		IIIdx	1113	
		Closing NO			
		Closing 110	min	ms	60
			max	ms	100
		Opening NO	max	1110	
		opolinig i to	min	ms	25
			max	ms	60
UL technical data					
Full-load current (FLA)	for three-phase AC motor				
			at 480V	Α	180
			at 600V	Α	144
Yielded mechanical pe	rformance				
	for three-phase AC moto	or			
			200/208V	HP	60
			220/230V	HP	75
			575/600V	HP	150
General USE					
	Contactor				
			AC current	Α	275
Short-circuit protection					
	Standard fault				
			Short circuit current	kA	10
			Fuse rating	Α	500
			Fuse class		RK5
Ambient conditions					
Temperature					
	Operating temperature				
			min	°C	-50
			max	°C	70



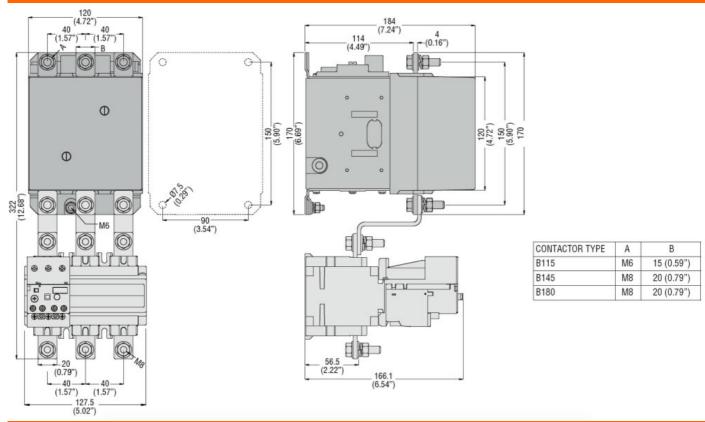
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ENERGY AND AUTOMATION

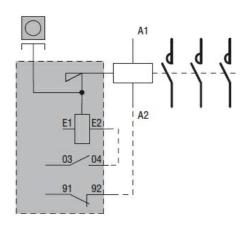
110...125VDC

Storage temperature				
otolago tompolatano	min	°C	-60	
	max	°C	80	
Max altitude		m	3000	
Resistance & Protection				
Pollution degree			3	

Dimensions



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

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ENERGY AND AUTOMATION 110...125VDC

Certificates

CCC

cULus

EAC

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching