ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 185A, AC/DC COIL, **electric** ALREADY FITTED WITH MECHANICAL LATCH (G495), 220...240VAC/DC, MECHANICAL LATCH 220...240VDC



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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	330V	Α	170
IFO many assument to in DO2 DO5 with 1/D < 45 m 2/1/4 at 1 2/2/2	460V	A	150
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series	75\/	^	400
	75V 110V	A A	180 90
	220V	A	
	330V	A	_ _
	460V	A	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	+00 V		
TEO HIEA GUITER TO IN 1900 1900 WILL ETT = TOTAL WILL 2 police in series	75V	Α	180
	110V	Α	140
	220V	Α	100
	330V	Α	_
	460V	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
01	460V	A	100
Short-time allowable current for 10s (IEC/EN60947-1)		Α	1500
Protection fuse	**O (IEO)	^	045
	gG (IEC)	A	315
Making capacity (RMS value)	aM (IEC)	<u>А</u> А	200 1850
Breaking capacity (Kivis value)		A	1650
Breaking capacity at voltage	440V	Α	1850
	500V	A	1600
	690V	A	1480
Resistance per pole (average value)	0001	mΩ	0.3
Power dissipation per pole (average value)		11132	0.0
Towar dissipation por pole (average value)	lth	W	20.3
	AC-3	W	9.7
Tightening torque for terminals			
	min	Nm	18
	max	Nm	18
	min	lbin	13.3
	max	Ibin	13.3
Tightening torque for coil terminal			
	min	Nm	1
	max	Nm	1
	min	Ibin	0.74
	max	lbin	0.74
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil			

300 kcmil max



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Power terminal protection according to IEC/EN 60529 IP00 Mechanical features Operating position Vertical plan normal allowable ±30° Fixing Screw Weight 6120 g **Operations** Mechanical life cycles 10000000 Electrical life 1000000 cycles Safety related data Performance level B10d according to EN/ISO 13489-1 rated load 1000000 cycles 10000000 mechanical load cycles Mirror contats according to IEC/EN 609474-4-1 Yes **EMC** compatibility yes AC coil operating Rated AC voltage at 50/60Hz, 60Hz ٧ min 220 ٧ 240 max AC operating voltage of 50/60Hz coil powered at 50Hz pick-up %Us 80 min %Us 110 max drop-out %Us 20 min max %Us 60 of 50/60Hz coil powered at 60Hz pick-up %Us 80 min max %Us 110 drop-out %Us 20 min %Us max 60 of 60Hz coil powered at 60Hz pick-up min %Us 80 %Us 110 max drop-out %Us 20 min %Us 60 max AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz 300 in-rush VA 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 ٧ 220

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			max	V	240
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		ПСХ	7000	
, wordy our concump			in-rush	W	300
			holding	W	10
Max cycles frequency					
Mechanical operation				cycles/h	2400
Operating times					
Average time for Us co					
	in AC	Olasia a NO			
		Closing NO	min	ms	60
			max	ms	100
		Opening NO	ПОХ	1110	100
		3 -	min	ms	25
			max	ms	60
	in DC				_
		Closing NO			
			min	ms	60
		O a a la a NO	max	ms	100
		Opening NO	min	me	25
			max	ms ms	60
UL technical data			ПСХ	1110	
Rated operational volta	age AC (UL)			V	600
Full-load current (FLA)		motor			
			at 480V	Α	180
			at 600V	Α	144
Yielded mechanical pe					
	for three-phase AC	C motor	/		
			200/208V	HP	60
			220/230V 575/600V	HP HP	75 150
General USE			373/0001	111	130
Concrar COL	Contactor				
	Comación		AC current	Α	275
Short-circuit protection	fuse, 600V				
	Standard fault				
			Short circuit current	kA	10
			Fuse rating	Α	500
A self-self-self-self-self-self-self-self-			Fuse class		RK5
Ambient conditions					
Temperature	Operating tempera	aturo			
	Operating tempera	แนเซ	min	°C	-50
			max	°C	70
	Storage temperatu	ire	max		
			min	°C	-60

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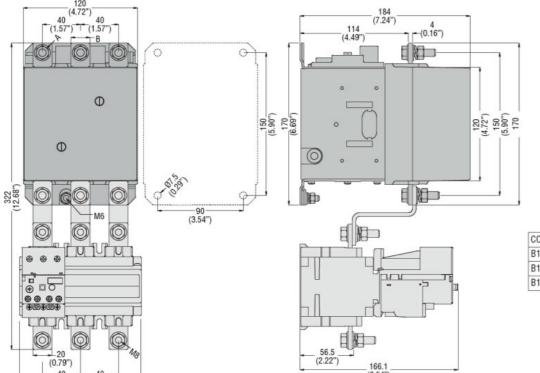


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	max	°C	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree	·		3

Dimension

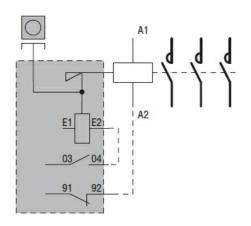


CONTACTOR TYPE	Α	В
B115	M6	15 (0.59")
B145	M8	20 (0.79")
B180	M8	20 (0.79")

Wiring diagrams

(1.57")

(1.57") 127.5 (5.02")



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

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ENERGY AND AUTOMATION 220...240VDC

> cULus EAC

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching