

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 185A, AC/DC COIL, 60VAC/DC



Product designation Product type designation			Power contactor B180
Contact characteristics			БТОО
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operational frequency		100	
oporational noquonoy	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)			
	230V	kW	57
	400V	kW	100
	415V	kW	108
	440V	kW	115
	500V	kW	123
	690V	kW	144
	1000V	kW	103
Rated operational power AC-1 (T≤40°C)			
	230V	kW	95
	400V	kW	160
	500V	kW	213
150	690V	kW	298
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series	75)/		000
	75V	A	260
	110V	A	120
	220V	A	_
	330V 460V	A A	_ _
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	400 V		
TEO THAN OUT ON TOO I WILL ETT 2 THIS WILL 2 POICS IT SELICS	75V	Α	260
	110V	A	170
	220V	A	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



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	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	A	150
IEC may current to in DC2 DC5 with L/B < 15mg with 1 polos in series	400 V		100
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series	75\/	۸	100
	75V	A	180
	110V	A	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	Α	100
	330V	Α	_
	460V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
120 max sumant to in 200 200 mai 2/11 - Tome mai o poleo in conce	75V	Α	180
	110V	Α	160
	220V	A	140
	330V	A	100
	460V		
150 to DO2 DO5 with 1/D < 45 with 4 inin	400 V	A	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	751	^	400
	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			
J 1 7 J	440V	Α	1850
	500V	Α	1600
	690V	Α	1480
Resistance per pole (average value)	090 V	mΩ	0.3
		11122	0.5
Power dissipation per pole (average value)	I4l-	147	00.0
	Ith	W	20.3
	AC-3	W	9.7
Tightening torque for terminals			
	min	Nm	18
	max	Nm	18
	min	Ibin	13.3
	max	Ibin	13.3
Tightening torque for coil terminal			
	min	Nm	1
	max	Nm	1



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				0.74
		min	Ibin	0.74
		max	Ibin	0.74
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		300 kcmil
Power terminal protec	tion according to IEC/EN 60529			IP00
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw
Weight			g	5450
Operations			9	0 100
Mechanical life			cyclos	10000000
Electrical life			cycles	1000000
			cycles	1000000
Safety related data	0d according to FN/ICO 40400 4			
Performance level B1	0d according to EN/ISO 13489-1			1000000
		rated load	cycles	1000000
		mechanical load	cycles	10000000
-	ng to IEC/EN 609474-4-1			Yes
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 5	0/60Hz		V	60
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out			
	3 T	min	%Us	20
		max	%Us	60
	of 50/60Hz coil powered at 60Hz	max	7000	
	pick-up			
	ρισκ-αρ	min	%Us	80
	dran aut	max	%Us	110
	drop-out		0/11-	20
		min	%Us	20
	. (0011)	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	umption 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
		9	-	



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 185A, AC/DC COIL,

Dissipation at holding ≤20°C 50Hz	2		W	10
DC coil operating DC rated control voltage			V	60
DC operating voltage			v	
pick-up				
• •		min	%Us	80
		max	%Us	110
drop-out				
		min	%Us	20
Average coil consumption ≤20°C		max	%Us	60
Average con consumption \$20 C		in-rush	W	300
		holding	W	10
Max cycles frequency		noiding	,,	10
Mechanical operation			cycles/h	2400
Operating times				
Average time for Us control				
in AC				
	Closing NO			
		min	ms	60
	Opening NO	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
UL technical data		max	ms	60
Rated operational voltage AC (UL))		V	600
Full-load current (FLA) for three-p			v	
, , , , , , , , , , , , , , , , , , , ,		at 480V	Α	180
		at 600V	Α	144
Yielded mechanical performance				
for three-p	phase AC motor			
		200/208V	HP	60
		220/230V	HP	75 450
General USE		575/600V	HP	150
Contactor				
Contactor		AC current	Α	275
Short-circuit protection fuse, 600V	1	2 22211		
Standard				
		Short circuit current	kA	10
		Fuse rating	Α	500
		Fuse class		RK5
Ambient conditions				
Temperature	to man a materials			
Operating	temperature	min	°C	-50
		max	°C	-50 70
		HUA		

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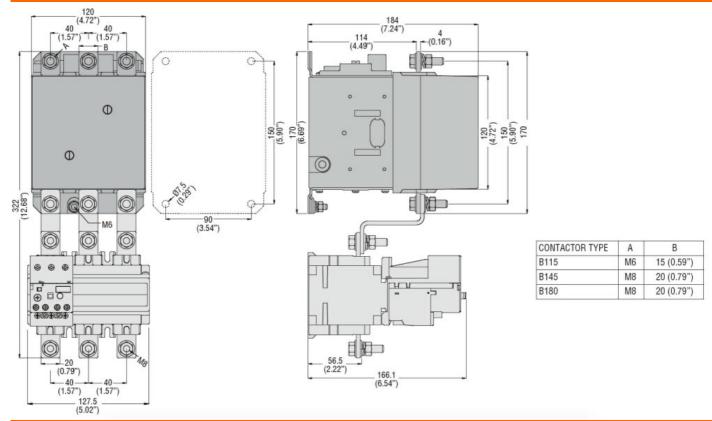
Storage temperature			
	min	°C	-60
	max	°C	80
		m	3000

Resistance & Protection

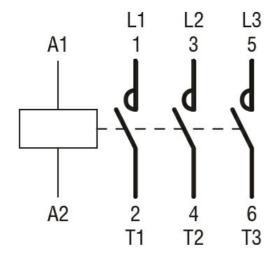
Pollution degree

Dimensions

Max altitude



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



11B1800060

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 185A, AC/DC COIL, 60VAC/DC

	UL 60947-4-1	
Certificates		
	CCC	
	cULus	
	EAC	
ETIM classification		
		EC000066 -

ETIM 8.0

EC000066 -Power contactor, AC switching