





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	A	
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
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
120 max current to in 200-200 with E/N = 10m3 with 1 poles in series	75V	۸	180
		A	
	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	Α	100
	330V	A	_
	460V	A	
IFO	400 V		
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			
120 max canonic to in 200 200 with 2/10 = Tome with 1 poloc in conce	75V	Α	180
	110V		160
		A	
	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)	a (120)	A	1850
			1000
Breaking capacity at voltage	4.40\/		1050
	440V	Α	1850
	500V	Α	1600
	690V	Α	1480
Resistance per pole (average value)		$m\Omega$	0.3
Power dissipation per pole (average value)			
· · · · · · · · · · · · · · · · · · ·	Ith	W	20.3
	AC-3	W	9.7
Tightening torque for terminals	7.00	••	
rightening torque for terminals	in	Nlm	10
	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	lbin	0.74
	max	Ibin	0.74
Max number of wires simultaneously connectable	HIGA	Nr.	2
		INI.	
Conductor section			
AWG/Kcmil			
	max		300 kcmil





Power terminal protection 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			0001 "
On exercising	max		300 kcmil
Operations			4000000
Mechanical life		cycles	10000000
Electrical life		cycles	1000000
Safety related data			
Performance level B10d according to EN/ISO 13489-1	outs Head		4000000
	rated load	cycles	1000000
Minus contate according to IEO/EN 000474 4 4	mechanical load	cycles	10000000
Mirror contats according to IEC/EN 609474-4-1			yes
EMC compatibility AC coil operating			yes
·			
Rated AC voltage at 50/60Hz, 60Hz	min	V	220
		V	240
AC operating voltage	max	V	24 0
of 50/60Hz coil powered at 50Hz			
pick-up			
ріск-ир	min	%Us	80
	max	%Us	110
drop-out	IIIax	/003	110
diop-out	min	%Us	20
	max	%Us	60
of 50/60Hz coil powered at 60Hz	max	7000	
pick-up			
ριοκ αρ	min	%Us	80
	max	%Us	110
drop-out	illax	,003	
arop out	min	%Us	20
	max	%Us	60
of 60Hz coil powered at 60Hz	ax		
pick-up			
F.57. 9P	min	%Us	80
	max	%Us	110
drop-out		-	
 	min	%Us	20
	max	%Us	60
AC average coil consumption at 20°C			
of 50/60Hz coil powered at 50Hz			
2. 22.00 <u>2</u> 00po0.0 dt 001.1 <u>2</u>	in-rush	VA	300
	holding	VA	10
of 50/60Hz coil powered at 60Hz	e.a.iig		
5. 55,651 12 5511 po 1151 54 41 501 12	in-rush	VA	300
	holding	VA	10
Dissipation at holding ≤20°C 50Hz	Holding	W	10





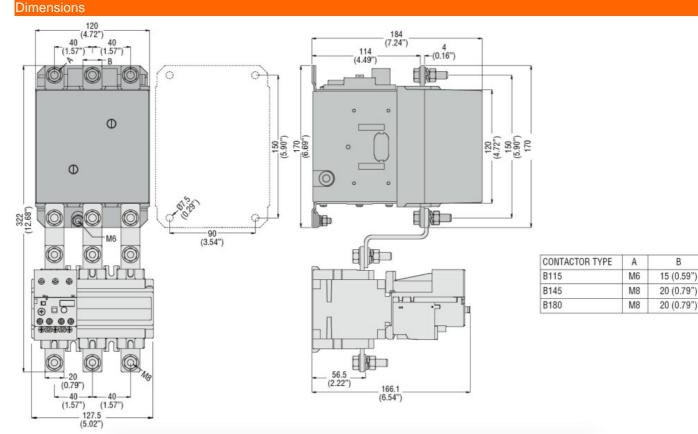
DO!!!!					
DC coil operating					
DC rated control voltage	j e		•	\	220
			min	V	220
DO (1 1)			max	V	240
DC operating voltage					
	pick-up				
			min	%Us	80
			max	%Us	110
	drop-out				
			min	%Us	20
			max	%Us	60
Average coil consump	tion ≤20°C				
			in-rush	W	300
			holding	W	10
Max cycles frequency					
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			
		3 11 9	min	ms	60
			max	ms	100
		Opening NO			
		- p	min	ms	25
			max	ms	60
UL technical data			THOX	1110	
Full-load current (FLA)	for three-phase AC m	notor			
r dii lodd ddifolit (i Ert)	Tot times phase 7.6 ft	10101	at 480V	Α	180
			at 600V	A	144
Yielded mechanical pe	rformance		at 000 V		1-7-7
rielueu mechanicai pe		motor			
	for three-phase AC	HOLOI	200/208V	HP	60
			200/208V 220/230V	HP	75
			575/600V	HP HP	75 150
General USE			373/0000	пг	100
General USE	Contactor				
	Contactor		AO	Λ	075
Ohant almosten	fues 000V		AC current	Α	275
Short-circuit protection					
	Standard fault				4.0
			Short circuit current	kA	10
			Fuse rating	Α	500
			Fuse class		RK5
Ambient conditions					
Temperature	_				
	Operating temperatu	ıre			
			min	°C	-50
			max	°C	70



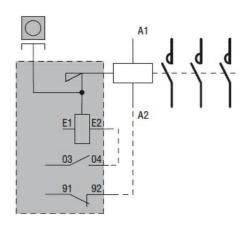


Storage temperature				
·	min	°C	-60	
	max	°C	80	
Max altitude		m	3000	
Resistance & Protection				
Pollution degree			3	

Pollution degree



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



ENERGY AND AUTOMATION

11B180L0048C48

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 185A, AC/DC COIL, ALREADY FITTED WITH MECHANICAL LATCH (G495), 48VAC/DC, MECHANICAL LATCH 48VDC

Certificates		
	CCC	
	cULus	
	EAC	
ETIM classificat	on	
		EC000066 -

ETIM 8.0

EC000066 Power contactor,
AC switching