



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		K V	0
Operational frequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	IIIdx	A	275
Operational current le			210
Operational current to	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)	()		
1 1 2 3 (22 3)	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
	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	_
150	460V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	 :	•	000
	75V	A	260
	110V	A	170
	220V	A	150
	330V	A	_
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	460V	Α	_
TEC max current le in DCT with L/R > mis with 3 poles in series	75V	٨	260
	75V 110V	A	260 170
	220V	A A	170
	2200	^	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			
	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	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	A	140
	330V	A	100
	460V	A	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
TEO Max current to in 200-200 with E/TC 2 Tomb with 4 poles in series	75V	Α	180
	110V	A	160
	220V	A	160
	330V	A	160
	460V	A	100
Short-time allowable current for 10s (IEC/EN60947-1)	+00 V	A	1500
Protection fuse			1300
Protection ruse	aC (IEC)	۸	245
	gG (IEC)	A	315
Molding consists (DMC value)	aM (IEC)	A	200
Making capacity (RMS value)		Α	1850
Breaking capacity at voltage	4.40\/	Λ	1050
	440V	A	1850
	500V	A	1600
Decistance and (successive)	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			
	min	Nm	18
	max	Nm	18
	min	lbin	13.3
	max	lbin	13.3
Tightening torque for coil terminal			
	min	Nm	1
	max	Nm	1





Weight g 5450 Conductor section Max 300 kcmil Operations Wechanical life cycles 10000000 Electrical life cycles 1000000 Safety related data rated load cycles 1000000 Performance level B10d according to EN/ISO 13489-1 rated load cycles 1000000 Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility yes AC coil operating V 24			min	lbin	0.74
Conductor section AWG/Kcmil max 300 kcmil P00 P0			max		
AWG/Kcmil max 300 kcmil Power terminal protection according to IEC/EN 60529 1P00		simultaneously connectable		Nr.	2
Power terminal protection according to IEC/EN 60529 IPO0 IPO0	Conductor section	AWG/Komil			
Provide terminal protection according to IEC/EN 60529 Provided Pattures		AWG/RCIIII	max		300 kcmil
Normal allowable Normal allo	Power terminal protect	tion according to IEC/EN 60529	max		
Departing position	•	tion decorating to 12 o/ 214 edo2e			11 00
Name					
Screw Weight			normal		Vertical plan
AWG/kcmil conductor section			allowable		
Conductor section	Fixing				Screw
AWG/kcmil conductor section max 300 kcmil 200	Weight			g	5450
Mechanical life	Conductor section				
Departutions Cycles 10000000 Cycles 100000000 Cycles 10000000 Cycles 100000000 Cycles 10000000000 Cycles 10000000000 Cycles 10000000000 Cycles 10000000000 Cycles 1000000000000 Cycles 100000000000000000000000000000000000		AWG/kcmil conductor section			
Mechanical life cycles 1000000			max		300 kcmil
Cycles 1000000 Cycles 1000000 Cycles 1000000 Cycles 1000000 Cycles 1000000 Cycles 10000000 Cycles 100000000 Cycles 10000000 Cycles 100000000 Cycles 100000000 Cycles 1000000000 Cycles 1000000000 Cycles 10000000000 Cycles 100000000000 Cycles 10000000000 Cycles 10000000000 Cycles 1000000000000 Cycles 1000000000000 Cycles 10000000000000000000 Cycles 100000000000000000000000000000000000					4000000
Performance level B10d according to EN/ISO 13489-1 rated load mechanical load cycles 1000000 mechanical load cycles 10000000 mechanical load cycles mechanical load cy				-	
Performance level B10d according to EN/ISO 13489-1 rated load cycles 10000000 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility yes Rated AC voltage at 50/60Hz AC operating voltage of 50/60Hz coil powered at 50Hz pick-up min %Us 80 max %Us 110 drop-out min %Us 80 max %Us 60 of 50/60Hz coil powered at 60Hz pick-up min %Us 80 max %Us 110 drop-out min %Us 80 max %Us 110 drop-out min %Us 80 max %Us 60 of 60Hz coil powered at 60Hz pick-up pick-up min %Us 80 max %Us 110 drop-out min %Us 20 max %Us 110 drop-out min %Us 20 max %Us 110 drop-out min %Us 20 max %Us 60 of 60Hz coil powered at 60Hz pick-up pick-up min %Us 80 max %Us 110 drop-out min %Us 80 max %Us 100 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 300				cycles	1000000
Rated load Cycles 1000000 10000000 100000000 100000000		Od according to EN/ISO 13489-1			
Mechanical load Cycles 10000000	i enomiance level bi	od according to EN/100 10409-1	rated load	cycles	1000000
Mirror contats according to IEC/EN 609474-4-1 EMC compatibility AC coll operating Rated AC voltage at 50/60Hz 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 110 drop-out min %Us 80 max %Us 60 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 300				•	
EMC compatibility AC coil operating Rated AC voltage at 50/60Hz Point of 50/60Hz coil powered at 50Hz pick-up min	Mirror contats accordi	na to IEC/EN 609474-4-1		0,0.00	
AC coil operating		3			-
Rated AC voltage at 50/60Hz V 24	AC coil operating				,
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 80 max %Us 110 drop-out min %Us 20 max %Us 110 drop-out min %Us 20 max %Us 110 drop-out min %Us 80 max %Us 60 of 60Hz coil powered at 60Hz pick-up min %Us 80 max %Us 110 drop-out min %Us 80 max %Us 60 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz		0/60Hz		V	24
Pick-up	AC operating voltage				
min %Us 80 max %Us 110		of 50/60Hz coil powered at 50Hz			
Max %Us 110		pick-up			
drop-out min %Us 20 max %Us 60					
min wus 20 max wus 60			max	%Us	110
max %Us 60		drop-out		0/116	20
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 consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 300					
Pick-up min %Us 80 max %Us 110 Max %Us 110 Max %Us 110 Max %Us 60 Max %Us 60 Max %Us 60 Max %Us 60 Max %Us 110 Max		of 50/60Hz coil powered at 60Hz	IIIdA	/003	00
Min %Us 80 max %Us 110					
Max %Us 110		Pior ap	min	%Us	80
drop-out min %Us 20 max %Us 60					
min %Us 20 max %Us 60		drop-out			
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 consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 300		·	min	%Us	20
pick-up 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 in-rush VA 300			max	%Us	60
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 in-rush VA 300		•			
drop-out max %Us 110 min %Us 20 max %Us 60 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 300		pick-up			
drop-out min %Us 20 max %Us 60 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 300					
min %Us 20 max %Us 60 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 300			max	%Us	110
max %Us 60 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 300		arop-out		0/11-	20
AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 300					
of 50/60Hz coil powered at 50Hz in-rush VA 300	AC average coil cons	umption at 20°C	Tilax	7₀US	UU
in-rush VA 300	no average con const				
		or solver iz con powered at solitz	in-rush	\/ A	300
Holding V/C 10					
			Holding	٧,١	. •



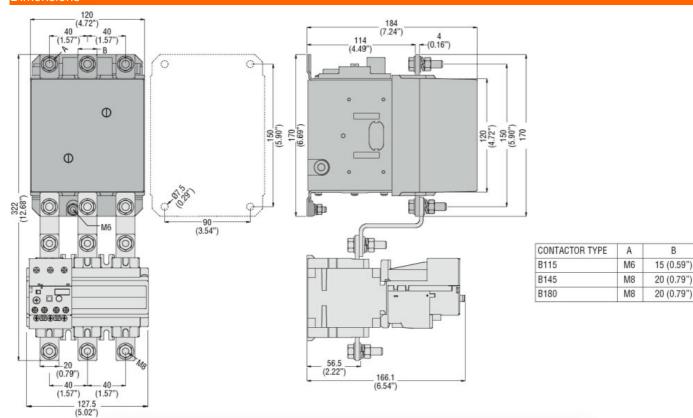
	-				
	of 50/60Hz coil po	wered at 60Hz			
			in-rush	VA	300
			holding	VA	10
Dissipation at holding	≤20°C 50Hz			W	10
DC coil operating					
DC rated control volta	αρ			V	24
DC operating voltage	<u>gc</u>			V	<u> </u>
DC operating voltage	-1-1				
	pick-up			0/11	
			min	%Us	80
	-		max	%Us	110
	drop-out				
			min	%Us	20
			max	%Us	60
Average coil consump	tion ≤20°C				
5			in-rush	W	300
			holding	W	10
May ayalaa fraguasay			noluling	V V	10
Max cycles frequency				a. (a) = = /'	2400
Mechanical operation				cycles/h	2400
Operating times					
Average time for Us of	ontrol				
	in AC				
		Closing NO			
		_	min	ms	60
			max	ms	100
		Opening NO			
		oponing 110	min	ms	25
				ms	60
	· DO		max	1115	00
	in DC	01 1 110			
		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	motor			
. sii iodd odiiolit (i LA	, .330 pilaso 110		at 480V	Α	180
			at 600V	A	144
Violded messbergiest	arfarmar		ai 000V		1 777
Yielded mechanical pe		S			
	for three-phase AC	motor			
			200/208V	HP	60
			220/230V	HP	75
			575/600V	HP	150
General USE					
	Contactor				
	50		AC current	Α	275
Short-circuit protection	n fuse 600\/		/ to duright	/ \	
onon-oncon protection					
	Standard fault		01		4.0
			Short circuit current	kA	10
			Fuse rating	Α	500
			Fuse class		RK5
Ambient conditions					
Temperature					
	Operating tempera	4			

Operating temperature

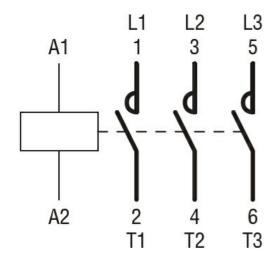


	min max	°C	-50 70
Storage temperature			
	min	°C	-60
	max	°C	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3

Dimensions



Wiring diagrams



Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN 60947-1



11B1800024

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

	IEC/EN 60947-4-1
	UL 60947-1
	UL 60947-4-1
Certificates	
	CCC
	cULus
	EAC

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching