



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		А	275
Operational current le			
	AC-1 (≤40°C)	А	275
	AC-1 (≤55°C)	А	250
	AC-1 (≤70°C)	А	200
	AC-3 (≤440V ≤55°C)	А	185
	AC-4 (400V)	А	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
Rated operational power AC-1 (T≤40°C)	1000V	kW	103
	230V	kW	95
	230V 400V	kW	95 160
	400V 440480V	kW	213
	690V	kW	298
IEC max current le in DC1 with $L/R \le 1$ ms with 1 poles in series	0001		200
	75V	А	260
	110V	A	120
	220V	A	_
	330V	A	_
	460V	А	_
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	75V	А	260
	110V	А	170
	220V	А	150
	330V	А	_
	460V	А	_
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			
	75V	А	260
	110V	А	170
	220V	А	170

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 185A, AC/DC COIL, 220...240VAC/DC

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	330V	А	150
	460V	А	_
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series			
	75V	А	260
	110V	A	170
	220V	A	170
	330V	A	170
	460V	A	150
IEC max current le in DC3-DC5 with L/R \leq 15ms with 1 poles in series	75\/	٨	100
	75V 110V	A	180
	220V	A A	90
	330V	A	_
	460V	A	_
IEC max current le in DC3-DC5 with L/R \leq 15ms with 2 poles in series	400 V	~	
in comax current le in DC3-DC3 with L/K 3 13ms with 2 poles in series	75V	А	180
	110V	A	140
	220V	A	100
	330V	A	-
	460V	A	_
IEC max current le in DC3-DC5 with L/R \leq 15ms with 3 poles in series	1001	7.	
	75V	А	180
	110V	A	160
	220V	A	140
	330V	А	100
	460V	А	_
IEC max current le in DC3-DC5 with L/R \leq 15ms with 4 poles in series			
	75V	А	180
	110V	А	160
	220V	А	160
	330V	А	160
	460V	Α	100
Short-time allowable current for 10s (IEC/EN60947-1)		А	1500
Protection fuse			
	gG (IEC)	А	315
	aM (IEC)	A	200
Making capacity (RMS value)		A	1850
Breaking capacity at voltage			
	440V	A	1850
	500V	A	1600
	690V	A	1480
Resistance per pole (average value)		mΩ	0.3
Power dissipation per pole (average value)	14	147	00.0
	Ith	W	20.3
Tightoning torque for terminele	AC3	W	9.7
Tightening torque for terminals		N	10
	min	Nm Nm	18 18
	max min	Ibin	18
	min max	Ibin Ibin	13.3
Tightening torque for coil terminal	Παλ		10.0
	min	Nm	1
	max	Nm	1
	Παλ	(11	

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	min	lbft	0.74
	max	lbft	0.74
Max number of wires simultaneously connectable		nr.	2
Power terminal protection according to IEC/EN 60529			IP00
Mechanical features			
Operating position			
	normal		Vertical plan
	allowable		±30°
Fixing			Screw
Weight		g	5340
Operations			
Mechanical life		cycles	1000000
Electrical life		cycles	1000000
Safety related data			
Performance level B10d according to EN/ISO 13489-1			
	rated load	cycles	1000000
	mechanical load	cycles	1000000
Mirror contats according to IEC/EN 609474-4-1		-	yes
EMC compatibility			yes
AC coil operating			
Rated AC voltage at 50/60Hz, 60Hz			
.	min	V	24
	max	V	480
AC operating voltage			
of 50/60Hz coil powered at 50Hz			
pick-up			
prox up	min	%Us	80
	max	%Us	110
drop-out		,	
	min	%Us	20
	max	%Us	60
of 50/60Hz coil powered at 60Hz		,	
pick-up			
prox up	min	%Us	80
	max	%Us	110
drop-out	Пах	/000	110
	min	%Us	20
	max	%Us	60
of 60Hz coil powered at 60Hz	Παλ	/003	
pick-up			
hick-ab	min	%Us	80
	max	%Us	110
drop-out	Πdλ	/003	
ulop-out	min	%Us	20
	max	%Us	60
AC operating voltage at 20°C	Παλ	/003	
of 50/60Hz coil powered at 50Hz			
	in-rush	VA	300
	holding	VA VA	300 10
of E0/6044 and new and at COULT	noiding	VA	10
of 50/60Hz coil powered at 60Hz	المربية من	1/4	200
	in-rush	VA	300
Dissipation at holding ≤20°C 50Hz	holding	VA	10
β		W	10

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Max altitude

Resistance & Protection

DC rated control voltage

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max V DC operating voltage pick-up	24 500 80
DC operating voltage pick-up min %Us max %Us drop-out min %Us max %Us	
pick-up min %Us max %Us drop-out min %Us max %Us	80
min %Us max %Us drop-out min %Us max %Us	80
min %Us max %Us drop-out min %Us max %Us	80
max %Us drop-out min %Us max %Us	
drop-out min %Us max %Us	110
min %Us max %Us	110
max %Us	20
	20
	60
Average coil consumption ≤20°C	
in-rush W	300
holding W	10
Max cycles frequency	
Mechanical operation cycles/h	2400
Operating times	2100
Average time for Us control	
in AC	
Closing NO	
min ms	60
max ms	100
Opening NO	
	25
	60
in DC	00
Closing NO	
	60
max ms	100
Opening NO	
min ms	25
	60
UL technical data	
Full-load current (FLA) for three-phase AC motor	
	400
at 480V A	180
at 480V A at 600V A	180 144
at 480V A at 600V A	
at 480V A at 600V A Yielded mechanical performance For three-phase AC motor	
at 480V A at 600V A Yielded mechanical performance For three-phase AC motor	
at 480V A at 600V A Yielded mechanical performance For three-phase AC motor 200/208V hp	<u>144</u> 60
at 480V A at 600V A Yielded mechanical performance For three-phase AC motor 200/208V hp 220/230V hp	144 60 75
at 480VA at 600VYielded mechanical performance for three-phase AC motor200/208V200/208Vhp 220/230V460/480Vhp	144 60 75 150
at 480VA at 600VAYielded mechanical performance for three-phase AC motor200/208Vhp 220/208V200/208Vhp 460/480Vhp 460/480Vhp hp 575/600Vhp hp	144 60 75
at 480VAat 600VAYielded mechanical performance for three-phase AC motor200/208V220/208Vhp220/230Vhp460/480Vhp575/600VhpGeneral USE575/600V	144 60 75 150
at 480VAat 600VAYielded mechanical performance for three-phase AC motor200/208V220/208Vhp220/230Vhp460/480Vhp575/600VhpGeneral USEContactor	144 60 75 150 150
at 480VA at 600VYielded mechanical performance for three-phase AC motor200/208V200/208Vhp 220/230V220/230Vhp 460/480V460/480Vhp 575/600VGeneral USE ContactorAC currentAC currentA	144 60 75 150
at 480V A at 600V A Yielded mechanical performance for three-phase AC motor 200/208V hp 220/230V hp 460/480V hp 575/600V hp General USE Contactor AC current A Ambient conditions A	144 60 75 150 150
at 480VA at 600VYielded mechanical performance for three-phase AC motor200/208V200/208Vhp 220/230V220/230Vhp 460/480V460/480Vhp 575/600VGeneral USE ContactorAC currentAC currentA	144 60 75 150 150
at 480V A at 600V A Yielded mechanical performance for three-phase AC motor 200/208V hp 220/230V hp 460/480V hp 575/600V hp General USE Contactor AC current A Ambient conditions A	144 60 75 150 150
at 480V A at 600V A Yielded mechanical performance 200/208V for three-phase AC motor 200/208V 220/230V hp 220/230V hp 460/480V hp 575/600V hp General USE AC current AC current A Ambient conditions Temperature Operating temperature USE	144 60 75 150 150 275
at 480V A at 600V A Yielded mechanical performance 200/208V for three-phase AC motor 200/208V 220/230V hp 220/230V hp 460/480V hp 575/600V hp General USE Contactor AC current A Ambient conditions A Temperature Operating temperature min °C	144 60 75 150 150 275 -50
at 480V A at 600V A Yielded mechanical performance 7 for three-phase AC motor 200/208V 220/230V hp 220/230V hp 460/480V hp 575/600V hp General USE AC current Contactor AC current AC current A Ambient conditions 7 Temperature min °C Max °C	144 60 75 150 150 275
at 480V A at 600V A Yielded mechanical performance 7 for three-phase AC motor 200/208V hp 220/230V hp 460/480V hp 220/230V hp 460/480V hp 575/600V hp General USE Contactor AC current A Ambient conditions A Temperature Operating temperature Min °C Storage temperature Storage temperature	144 60 75 150 150 275 -50 70
at 480V A at 600V A Yielded mechanical performance for three-phase AC motor 200/208V hp 220/230V hp 460/480V hp 220/230V hp 460/480V hp 575/600V hp General USE Contactor Contactor AC current AC current A Ambient conditions V Temperature min Operating temperature min Storage temperature min	144 60 75 150 150 275 -50

m

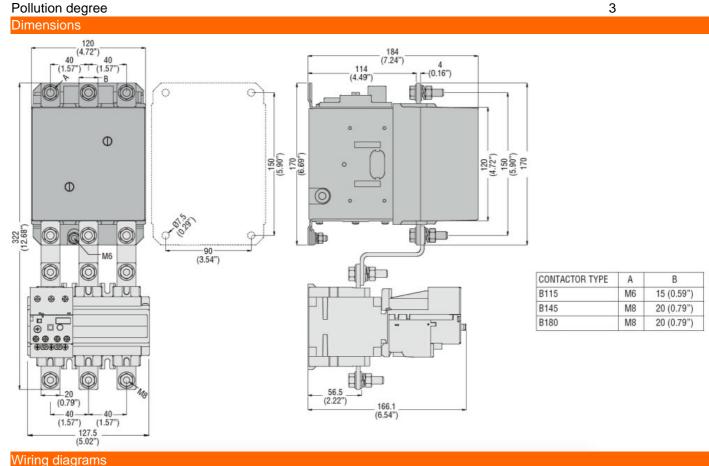
3000



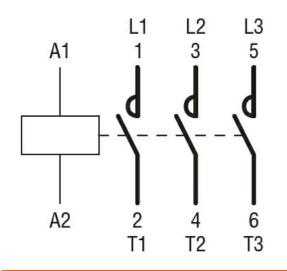
Pollution degree

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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
Certificates	
	CCC
	cULus

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