

Product designation		Power contactor
Product type designation		B145
Contact characteristics	NI.	0
Number of poles	Nr.	3
Rated insulation voltage Ui IEC/EN	V	1000
Rated impulse withstand voltage Uimp	kV	8
Operational frequency	⊔⊸	25
min	Hz Hz	400
IEC Conventional free air thermal current Ith	<u>п</u> А	250
Operational current le		250
AC-1 (≤40°C)	Α	250
AC-1 (≤40 C) AC-1 (≤55°C)	A	235
AC-1 (≤33 C) AC-1 (≤70°C)	A	190
AC-3 (≤440V ≤55°C)	A	150
AC-4 (400V)	A	57
Rated operational power AC-3 (T≤55°C)	- / \	
230V	kW	46
400V	kW	80
415V	kW	88
440V	kW	93
500V	kW	100
690V	kW	120
1000V	kW	75
Rated operational power AC-1 (T≤40°C)		
230V	kW	91
400V	kW	150
500V	kW	196
690V	kW	270
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series		
75V	Α	220
110V	Α	110
220V	Α	_
330V	Α	_
460V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series		
75V	Α	220
110V	Α	150
220V	Α	130
330V	Α	_
460V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series		000
75V	A	220
110V	A	150
220V	Α	150



	330V	Α	130
	460V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	75V	Α	220
	110V	Α	150
	220V	Α	150
	330V	Α	150
	460V	Α	130
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	75V	Α	160
	110V	Α	80
	220V	Α	_
	330V	Α	_
	460V	A	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	75V	Α	160
	110V	Α	120
	220V	Α	90
	330V	Α	_
	460V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	75V	Α	160
	110V	Α	140
	220V	Α	120
	330V	Α	90
-	460V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series		_	
	75V	Α	160
	110V	Α	140
	220V	Α	140
	330V	Α	140
01 (1) 11 11 11 11 11 11 11 11 11 11 11 11 1	460V	A	90
Short-time allowable current for 10s (IEC/EN60947-1)		Α	1300
Protection fuse	. 0 (150)		050
	gG (IEC)	A	250
Maline and site (DMC calca)	aM (IEC)	A	160
Making capacity (RMS value)		Α	1500
Breaking capacity at voltage	440)/	۸	4500
	440V	A	1500
	500V	A	1400
Desistance per pela (average value)	690V	A	1200
Resistance per pole (average value)		mΩ	0.3
Power dissipation per pole (average value)	141-	14/	445
	Ith	W W	14.5
Tightoning torque for terminals	AC-3	٧٧	6.8
Tightening torque for terminals	min	Nim	10
	min	Nm Nm	18
	max	Nm	18
	min	lbin Ibin	13.3
Tightoning torque for coil terminal	max	lbin	13.3
Tightening torque for coil terminal	min	Nima	1
	min	Nm Nm	1
	max	Nm	1



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		min	lbin	0.74
		max	Ibin	0.74
Max number of wires	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		4/0
	tion according to IEC/EN 60529			IP00
Mechanical features				
Operating position		normal		Vertical plan
		allowable		Vertical plan ±30°
Fixing		allowable		Screw
Weight			g	5440
Conductor section				
	AWG/kcmil conductor section			
		max		4/0
Operations				
Mechanical life			cycles	10000000
Electrical life			cycles	1100000
Safety related data				
Performance level B1	0d according to EN/ISO 13489-1			
		rated load	cycles	1100000
Mirror contato cocardi	ng to IFC/FN 600474 4 4	mechanical load	cycles	10000000
EMC compatibility	ng to IEC/EN 609474-4-1			yes
AC coil operating				yes
Rated AC voltage at 5	0/60Hz		V	60
AC operating voltage	0,001.12			
, ,	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	IIIdA	/0 U 3	110
	010p 00t	min	%Us	20
		max	%Us	60
	of 60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out		0/11	00
		min	%Us	20
AC average sail sers:	umption at 20°C	max	%Us	60
AC average coil consu	of 50/60Hz coil powered at 50Hz			
	or solver iz con powered at sumz	in-rush	VA	300
		holding	VA VA	10
		Holding	٧, ١	. •

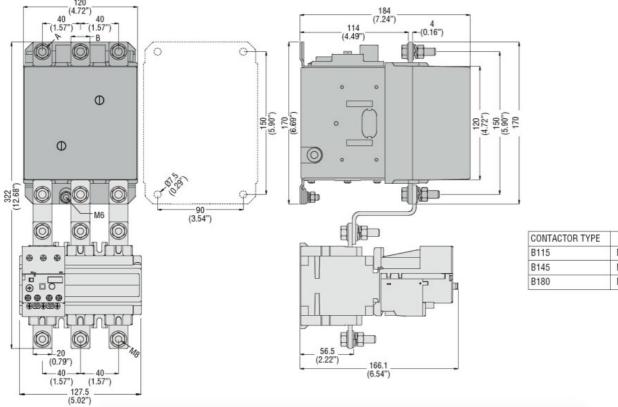


	of 50/60Hz coil power	ered at 60Hz			
			in-rush	VA	300
			holding	VA	10
Dissipation at holding :	<20°C 50H 7		noiding	W	10
DC coil operating	320 C 30112			VV	10
	.			\/	00
DC rated control voltage	je			V	60
DC operating voltage					
	pick-up				
			min	%Us	80
			max	%Us	110
	drop-out				
	•		min	%Us	20
			max	%Us	60
Average coil consump	tion <20°C		· · · · · · · · · · · · · · · · · · ·	7000	
Average con consump	11011 320 C		مام سرمان	14/	200
			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			
		Clocking 110	min	ms	60
					100
		On aning NO	max	ms	100
		Opening NO			
			min	ms	25
			max	ms	60
	in DC				
		Closing NO			
			min	ms	60
			max	ms	100
		Opening NO			
		- p	min	ms	25
			max	ms	60
UL technical data			IIIax	1113	00
	for three releases AO re	-1			
Full-load current (FLA)	ior three-phase AC m	OlOf			101
			at 480V	Α	124
			at 600V	A	125
Yielded mechanical pe					
	for three-phase AC r	notor			
			200/208V	HP	50
			220/230V	HP	50
General USE			<u>`</u>		
	Contactor				
	Jonatol		AC current	Α	250
Chart aircuit a t t'	fues 600V		AC CUITEIIL		200
Short-circuit protection					
	Standard fault				_
			Short circuit current	kA	5
			Fuse rating	Α	500
			Fuse class		RK5
Ambient conditions					
Temperature					
•	Operating temperatu	re			
	Sporating temperatu		min	°C	-50
			111111		



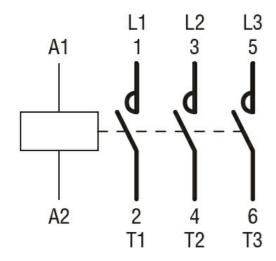
	max	°C	70
Storage temperature			
	min	°C	-60
	max	°C	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3

Dimensions



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

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



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THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 150A, AC/DC COIL, 60VAC/DC

	UL 60947-1	
	UL 60947-4-1	
Certificates		
	CCC	
	cULus	
	EAC	

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching