



Product designation			Power contactor
Product type designation			B145
Contact characteristics		N la	2
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	25
IFC Conventional free air thermal surrent lth	max	Hz	400
IEC Conventional free air thermal current Ith		A	250
Operational current le		^	250
	AC-1 (=40°C)	A	250
	AC-1 (=55°C)	A	235
	AC-1 (=70°C)	A	190
	AC-3 (=440V =55°C)	A	150
Deted energianal nerver AC 2 (T-55°C)	AC-4 (400V)	A	57
Rated operational power AC-3 (T=55°C)	000)/	1.3.47	40
	230V	kW	46
	400V	kW	80
	415V	kW	88
	440V	kW	93
	500V	kW	100
	690V	kW	120
Rated operational power AC-1 (T=40°C)	1000V	kW	75
Rated operational power AC-1 (1-40 C)	2201/		04
	230V	kW	91
	400V 500V	kW kW	150
	690V	kW	196 270
IEC max current le in DC1 with L/R = 1ms with 1 poles in series	090 V	ĸvv	270
The max current is in DCT with $L/R = 1$ ms with T poles in series	75\/	^	000
	75V	A	220
	110V 220V	A A	110
			_
	330V 460V	A	-
IFC may autrent to in DC1 with L/R - 1mg with 2 palog in agrice	400 V	A	_
IEC max current le in DC1 with L/R = 1ms with 2 poles in series	751/	^	220
	75V	A	220
	110V 220V	A	150
	220V 330V	A	130
	460V	A	-
IFC may ourrent to in DC1 with L/P - 1mg with 2 palog in agrice	40UV	A	_
IEC max current le in DC1 with L/R = 1ms with 3 poles in series		^	220
	75V	A	220
	110V	A	150
	220V	А	150

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 150A, AC/DC COIL, 220...240VAC/DC

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	330V	А	130
	460V	А	_
IEC max current le in DC1 with L/R = 1ms with 4 poles in series			
	75V	А	220
	110V	А	150
	220V	А	150
	330V	А	150
	460V	А	130
IEC max current le in DC3-DC5 with L/R = 15ms with 1 poles in series			
	75V	А	160
	110V	А	80
	220V	А	-
	330V	А	-
	460V	А	-
IEC max current le in DC3-DC5 with L/R = 15ms with 2 poles in series			
	75V	А	160
	110V	А	120
	220V	А	90
	330V	А	-
	460V	Α	_
IEC max current le in DC3-DC5 with L/R = 15ms with 3 poles in series			
	75V	А	160
	110V	А	140
	220V	А	120
	330V	A	90
	460V	A	_
IEC max current le in DC3-DC5 with L/R = 15ms with 4 poles in series			
	75V	A	160
	110V	A	140
	220V	A	140
	330V	A	140
	460V	<u>A</u>	90
Short-time allowable current for 10s (IEC/EN60947-1)		A	1300
Protection fuse			
	gG (IEC)	A	250
	aM (IEC)	<u>A</u>	160
Making capacity (RMS value)		A	1500
Breaking capacity at voltage	44017	۸	4500
	440V	A	1500
	500V	A	1400
Papiatanaa nar nala (ayaraga yalya)	690V	A m?	1200
Resistance per pole (average value)		m?	0.3
Power dissipation per pole (average value)	146	14/	115
	lth	W	14.5
Tightoning torque for terminale	AC3	W	6.8
Tightening torque for terminals		Nina	10
	min	Nm Nm	18
	max	Nm	18
	min	lbin Ibin	13.3
Tightoning torque for coil terminal	max	Ibin	13.3
Tightening torque for coil terminal		Nina	1
	min	Nm Nm	1
	max	Nm	1

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		min	Ibin	0.74
Max number of wires	simultaneously connectable	max	Ibin Nr.	0.74
Conductor section	simultaneously connectable		INI.	۷
	AWG/Kcmil			
		max		4/0
Power terminal protect	ction according to IEC/EN 60529			IP00
Mechanical features	<u></u>			
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw
Weight			g	5380
Conductor section				
	AWG/kcmil conductor section			
		max		4/0
Operations				
Mechanical life			cycles	1000000
Electrical life			cycles	1100000
Safety related data				
Performance level B1	10d according to EN/ISO 13489-1			
		rated load	cycles	1100000
		mechanical load	cycles	10000000
Minute a contract of the second secon				
Mirror contats accord	ing to IEC/EN 609474-4-1			yes
EMC compatibility	ing to IEC/EN 609474-4-1			yes
EMC compatibility AC coil operating				
EMC compatibility		min	V	yes
EMC compatibility AC coil operating		min	V	yes 220
EMC compatibility AC coil operating Rated AC voltage at §	50/60Hz, 60Hz	min max	V V	yes
EMC compatibility AC coil operating	50/60Hz, 60Hz			yes 220
EMC compatibility AC coil operating Rated AC voltage at §	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz			yes 220
EMC compatibility AC coil operating Rated AC voltage at §	50/60Hz, 60Hz	max	V	yes 220 240
EMC compatibility AC coil operating Rated AC voltage at §	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz			yes 220 240 80
EMC compatibility AC coil operating Rated AC voltage at §	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up	maxmin	V %Us	yes 220 240
EMC compatibility AC coil operating Rated AC voltage at §	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz	maxmin	V %Us	yes 220 240 80
EMC compatibility AC coil operating Rated AC voltage at §	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up	max min max	V %Us %Us	yes 220 240 80 110
EMC compatibility AC coil operating Rated AC voltage at §	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up	max min max min	V %Us %Us %Us	yes 220 240 80 110 20
EMC compatibility AC coil operating Rated AC voltage at §	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out	max min max min	V %Us %Us %Us	yes 220 240 80 110 20
EMC compatibility AC coil operating Rated AC voltage at §	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	max min max min	V %Us %Us %Us	yes 220 240 80 110 20
EMC compatibility AC coil operating Rated AC voltage at §	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	max min max min max	V %Us %Us %Us %Us	yes 220 240 80 110 20 60
EMC compatibility AC coil operating Rated AC voltage at §	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	max min max min max min	V %Us %Us %Us %Us %Us	yes 220 240 80 110 20 60 80
EMC compatibility AC coil operating Rated AC voltage at §	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	max min max min max min	V %Us %Us %Us %Us %Us %Us	yes 220 240 80 110 20 60 80 110 20
EMC compatibility AC coil operating Rated AC voltage at §	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max min max min max	V %Us %Us %Us %Us %Us	yes 220 240 80 110 20 60 80 110
EMC compatibility AC coil operating Rated AC voltage at §	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	max min max min max min max min	V %Us %Us %Us %Us %Us %Us	yes 220 240 80 110 20 60 80 110 20
EMC compatibility AC coil operating Rated AC voltage at §	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max min max min max min	V %Us %Us %Us %Us %Us %Us %Us	yes 220 240 80 110 20 60 80 110 20 60
EMC compatibility AC coil operating Rated AC voltage at §	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out drop-out	max min max min max min max min	V %Us %Us %Us %Us %Us %Us %Us	yes 220 240 80 110 20 60 80 110 20 60 80 80
EMC compatibility AC coil operating Rated AC voltage at §	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz pick-up	max min max min max min max min max	V %Us %Us %Us %Us %Us %Us %Us	yes 220 240 80 110 20 60 80 110 20 60
EMC compatibility AC coil operating Rated AC voltage at §	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out drop-out	max min max min max min max min max	V %Us %Us %Us %Us %Us %Us %Us %Us	yes 220 240 80 110 20 60 80 110 20 60 80 110 80 110
EMC compatibility AC coil operating Rated AC voltage at §	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz pick-up	max min max min max min max min max min max	V %Us %Us %Us %Us %Us %Us %Us	yes 220 240 80 110 20 60 80 110 20 60 80 80

of 50/60Hz coil powered at 50Hz

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			in-rush	VA	300
			holding	VA	10
	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	ge				
			min	V	220
			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	otion =20°C				
			in-rush	W	300
			holding	W	10
Max cycles frequency					
Mechanical operation				cycles/h	2400
Operating times					
Average time for Us c	ontrol				
	in AC				
		Closing NO			
			min	ms	60
			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
			max	ms	60
UL technical data					
Full-load current (FLA) for three-phase AC	motor			404
			at 480V	A	124
Violded as a share's a'			at 600V	A	125
Yielded mechanical po					
	for three-phase AC		000/0001/		50
			200/208V	HP	50
0			220/230V	HP	50
General USE	O ante at a				
	Contactor			^	250
	. (AC current	Α	250
Short-circuit protection					
	Standard fault				-
			Short circuit current	kA	5
			Fuse rating	А	500 DK5
			Fuse class		RK5

The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding

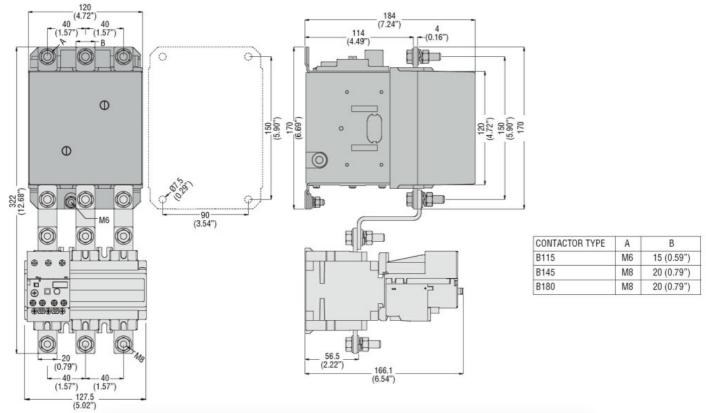


Ambient conditions

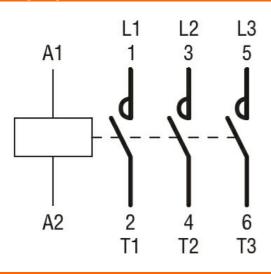
Temperature

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





Wiring diagrams



Certifications and compliance Compliance

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	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	
	EAC	
ETIM classification		
		EC000066 -

ETIM 8.0

EC000066 -Power contactor, AC switching