



Product designation			Power contactor
Product type designation Contact characteristics			B145
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operational frequency		IX V	0
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		A	250
Operational current le			
	AC-1 (≤40°C)	А	250
	AC-1 (≤55°C)	A	235
	AC-1 (≤70°C)	А	190
	AC-3 (≤440V ≤55°C)	А	150
	AC-4 (400V)	А	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
IEC may aurrent to in DC1 with L/R < 1ma with 1 palas in series	690V	kW	270
IEC max current le in DC1 with $L/R \le 1$ ms with 1 poles in series	75V	۸	220
	75V 110V	A A	220 110
	220V	A	_
	330V	A	_
	460V	A	_
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series	1001		
	75V	А	220
	110V	A	150
	220V	A	130
	330V	А	_
	460V	А	_
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
	75V	А	220
	110V	А	150
	220V	А	150

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THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 150A, AC/DC COIL, 380...415VAC/DC

	330V	А	130
	460V	А	-
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series			
	75V	А	220
	110V	А	150
	220V	А	150
	330V	А	150
	460V	Α	130
IEC max current le in DC3-DC5 with L/R \leq 15ms with 1 poles in series			
	75V	A	160
	110V	А	80
	220V	А	-
	330V	Α	-
	460V	A	_
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 2 poles in series			
	75V	A	160
	110V	A	120
	220V	A	90
	330V	A	_
	460V	A	_
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 3 poles in series			
	75V	A	160
	110V	A	140
	220V	A	120
	330V	A	90
	460V	A	-
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 4 poles in series			100
	75V	A	160
	110V	A	140
	220V 330V	A	140
	330V 460V	A	140 90
Short-time allowable current for 10s (IEC/EN60947-1)	400 V	A A	1300
		A	1300
Protection fuse		۸	250
	gG (IEC) aM (IEC)	A	250 160
Making capacity (RMS value)		A A	1500
Breaking capacity at voltage		A	1500
Dicaning capacity at voltage	440V	А	1500
	440V 500V	A	1400
	500V 690V	A	1200
Resistance per pole (average value)	0301	 mΩ	0.3
Power dissipation per pole (average value)		11122	0.0
i over assipation per pole (average value)	lth	W	14.5
	AC-3	W	6.8
Tightening torque for terminals	AC-3	vv	0.0
ngnioning torque for terminals	min	Nm	18
	max	Nm	18
	min	Ibin	13.3
	max	Ibin	13.3
Tightening torque for coil terminal	Παλ		10.0
	min	Nm	1
	max	Nm	1
	Παλ	INIII	I

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		min	Ibin	0.74
Max number of wires		max	lbin Nr.	0.74
Conductor section	s simultaneously connectable		INF.	2
	AWG/Kcmil			
	AWO/Kemi	max		4/0
Power terminal prote	ection according to IEC/EN 60529	Пах		IP00
Mechanical features				
Operating position				
1 01		normal		Vertical plan
		allowable		±30°
Fixing				Screw
Weight			g	5390
Conductor section				
	AWG/kcmil conductor section			
		max		4/0
Operations				
Mechanical life			cycles	1000000
Electrical life			cycles	1100000
Safety related data				
Performance level B	10d according to EN/ISO 13489-1			4400000
		rated load	cycles	1100000
		mechanical load	cycles	1000000
Mirror contate case	ding to IEC/EN 600/7/ / 1			
	ding to IEC/EN 609474-4-1			yes
EMC compatibility	ding to IEC/EN 609474-4-1			yes
EMC compatibility AC coil operating				-
EMC compatibility		min	V	yes
EMC compatibility AC coil operating		min max	V V	yes 380
EMC compatibility AC coil operating	50/60Hz, 60Hz			yes
EMC compatibility AC coil operating Rated AC voltage at	50/60Hz, 60Hz э			yes 380
EMC compatibility AC coil operating Rated AC voltage at	50/60Hz, 60Hz			yes 380
EMC compatibility AC coil operating Rated AC voltage at	50/60Hz, 60Hz e of 50/60Hz coil powered at 50Hz			yes 380
EMC compatibility AC coil operating Rated AC voltage at	50/60Hz, 60Hz e of 50/60Hz coil powered at 50Hz	max	V	yes 380 415
EMC compatibility AC coil operating Rated AC voltage at	50/60Hz, 60Hz e of 50/60Hz coil powered at 50Hz	max min	V %Us %Us	yes 380 415 80 110
EMC compatibility AC coil operating Rated AC voltage at	50/60Hz, 60Hz e of 50/60Hz coil powered at 50Hz pick-up	max min	V %Us %Us %Us	yes 380 415 80 110 20
EMC compatibility AC coil operating Rated AC voltage at	50/60Hz, 60Hz e of 50/60Hz coil powered at 50Hz pick-up drop-out	max min max	V %Us %Us	yes 380 415 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	max min max min	V %Us %Us %Us	yes 380 415 80 110 20
EMC compatibility AC coil operating Rated AC voltage at	50/60Hz, 60Hz e of 50/60Hz coil powered at 50Hz pick-up drop-out	max min max min max	V %Us %Us %Us %Us	yes 380 415 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	yes 380 415 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	V %Us %Us %Us %Us	yes 380 415 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 max	V %Us %Us %Us %Us %Us	yes 380 415 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 380 415 80 110 20 60 80 110 20 20
EMC compatibility AC coil operating Rated AC voltage at	50/60Hz, 60Hz e 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 380 415 80 110 20 60 80 110
EMC compatibility AC coil operating Rated AC voltage at	50/60Hz, 60Hz e 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	yes 380 415 80 110 20 60 80 110 20 20
EMC compatibility AC coil operating Rated AC voltage at	50/60Hz, 60Hz e 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 max	V %Us %Us %Us %Us %Us %Us	yes 380 415 80 110 20 60 80 110 20 60 80 110 20 60
EMC compatibility AC coil operating Rated AC voltage at	50/60Hz, 60Hz e 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 min max	V %Us %Us %Us %Us %Us %Us %Us	yes 380 415 80 110 20 60 80 110 20 60 80 110 20 60 80 80 110 80 110 80 80 110 80 80 110 80 80 80 80 80 80 80 80 80 8
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	yes 380 415 80 110 20 60 80 110 20 60 80 110 20 60
EMC compatibility AC coil operating Rated AC voltage at	50/60Hz, 60Hz e 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 min max	V %Us %Us %Us %Us %Us %Us %Us	yes 380 415 80 110 20 60 80 110 20 60 80 110 20 60 80 80 110 80 110 80 80 110 80 80 110 80 80 80 80 80 80 80 80 80 8

of 50/60Hz coil powered at 50Hz

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			in-rush	VA	300
	(= 0 / 0 0 1 1 1		holding	VA	10
	of 50/60Hz coil p	owered at 60Hz	in much	١/٨	200
			in-rush	VA VA	300
Dissipation at holding ≤	<20°C 50U-		holding	W VA	10 10
Dissipation at holding a	≤20 C 30112			VV	10
DC rated control voltag	re				
	J C		min	V	380
			max	v	415
DC operating voltage					
	pick-up				
	1 1		min	%Us	80
			max	%Us	110
	drop-out				
	-		min	%Us	20
			max	%Us	60
Average coil consumpt	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					
	in AC				
		Closing NO	min	ms	60
			max	ms	100
		Opening NO	IIIdA	1113	100
		oponing ito	min	ms	25
			max	ms	60
	in DC				
		Closing NO			
		-	min	ms	60
			max	ms	100
		Opening NO			
		1 0			
		1 0	min	ms	25
			min max	ms ms	25 60
	for the second second				
	for three-phase A(max	ms	60
	for three-phase A		max at 480V	ms A	60 124
Full-load current (FLA)			max	ms	60
UL technical data Full-load current (FLA) Yielded mechanical pe	rformance	C motor	max at 480V	ms A	60 124
Full-load current (FLA)		C motor	max at 480V at 600V	ms A A	60 124 125
Full-load current (FLA)	rformance	C motor	max at 480V at 600V 200/208V	MS A A HP	60 124 125 50
Full-load current (FLA) Yielded mechanical pe	rformance	C motor	max at 480V at 600V	ms A A	60 124 125
Full-load current (FLA) Yielded mechanical pe	rformance for three-phase A	C motor	max at 480V at 600V 200/208V	MS A A HP	60 124 125 50
Full-load current (FLA) Yielded mechanical pe	rformance	C motor	max at 480V at 600V 200/208V	MS A A HP	60 124 125 50
Full-load current (FLA) Yielded mechanical pe General USE	for three-phase A Contactor	C motor	max at 480V at 600V 200/208V 220/230V	MS A A HP HP	60 124 125 50 50
Full-load current (FLA) Yielded mechanical pe General USE	for three-phase A Contactor	C motor	max at 480V at 600V 200/208V 220/230V	MS A A HP HP	60 124 125 50 50
Full-load current (FLA) Yielded mechanical pe General USE	erformance for three-phase A Contactor fuse, 600V	C motor	max at 480V at 600V 200/208V 220/230V	MS A A HP HP	60 124 125 50 50
Full-load current (FLA)	erformance for three-phase A Contactor fuse, 600V	C motor	max at 480V at 600V 200/208V 220/230V AC current	MS A A HP HP A	60 124 125 50 50 250

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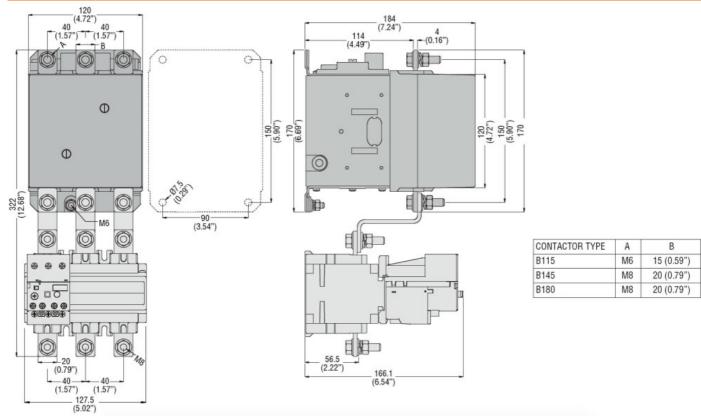


Ambient conditions

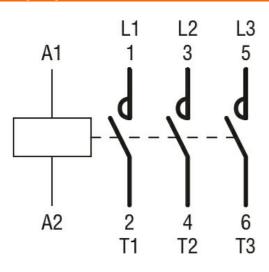
Temperature

	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Prot	tection			
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