



Product designation Product type designation			Power contactor B145
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		A	250
Operational current le			
	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
Rated operational power AC-3 (T≤55°C)	AC-4 (400V)	A	57
	230V	kW	46
	230V 400V	kW	80
	400V 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 $L/R \le 1$ ms with 1 poles in series			
	75V	A	220
	110V	A	110
	220V	A	_
	330V	A	_
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series	460V	A	-
	75V	А	220
	110V	A	150
	220V	A	130
	330V	A	_
	460V	A	_
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			
	75V	А	220
	110V	А	150
	220V	А	150



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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	A	150
	330V	A	150
	460V	A	130
	400 V	A	130
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 1 poles in series		_	
	75V	А	160
	110V	А	80
	220V	A	-
	330V	Α	-
	460V	Α	-
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	75V	А	160
	110V	A	120
	220V	A	90
	330V	A	30
			-
	460V	Α	
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 3 poles in series			
	75V	А	160
	110V	А	140
	220V	Α	120
	330V	Α	90
	460V	А	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	75V	А	160
	110V	A	140
	220V	A	140
	330V		140
		A	
	460V	A	90
Short-time allowable current for 10s (IEC/EN60947-1)		А	1300
Protection fuse			
	gG (IEC)	Α	250
	aM (IEC)	Α	160
Making capacity (RMS value)		А	1500
Breaking capacity at voltage			
	440V	А	1500
	500V	A	1400
	690V	A	1200
Resistance per pole (average value)	0001	mΩ	0.3
		11122	0.0
Power dissipation per pole (average value)		147	445
	lth	W	14.5
	AC-3	W	6.8
Tightening torque for terminals			
	min	Nm	18
	max	Nm	18
	min	Ibin	13.3
	max	Ibin	13.3
Tightening torque for coil terminal			
	min	Nm	1
	max	Nm	1
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IE (AC3) = 150A,	AC/DC COIL,
	48VAC/DC

		min	Ibin	0.74
Max number of wires	imultanoously connectable	max	lbin Nr.	0.74
Max number of wires s	simultaneously connectable		INF.	۷
	AWG/Kcmil			
		max		4/0
Power terminal protec	tion according to IEC/EN 60529			IP00
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw
Weight			g	5430
Conductor section				
	AWG/kcmil conductor section			4/0
Operations		max		4/0
Operations Mechanical life			ovelee	1000000
Electrical life			cycles cycles	10000000 1100000
Safety related data			Cycles	1100000
	0d according to EN/ISO 13489-1			
		rated load	cycles	1100000
		mechanical load	cycles	10000000
Mirror contats accordi	ng to IEC/EN 609474-4-1		- ,	yes
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 5	0/60Hz		V	48
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out	min	0/110	20
		min	%Us	20
	of 50/60Hz coil powered at 60Hz	max	%Us	60
	pick-up			
	Pior up		%Us	80
		min	70115	~ ~
		min max		110
	drop-out	min max	%Us %Us	110
	drop-out			110 20
	drop-out	max	%Us	
	drop-out of 60Hz coil powered at 60Hz	max	%Us %Us	20
		max	%Us %Us %Us	20 60
	of 60Hz coil powered at 60Hz	max	%Us %Us %Us %Us	20 60 80
	of 60Hz coil powered at 60Hz pick-up	max min max	%Us %Us %Us	20 60
	of 60Hz coil powered at 60Hz	max min max min max	%Us %Us %Us %Us %Us	20 60 80 110
	of 60Hz coil powered at 60Hz pick-up	max min max min max min	%Us %Us %Us %Us %Us	20 60 80 110 20
	of 60Hz coil powered at 60Hz pick-up drop-out	max min max min max	%Us %Us %Us %Us %Us	20 60 80 110
AC average coil consu	of 60Hz coil powered at 60Hz pick-up drop-out umption at 20°C	max min max min max min	%Us %Us %Us %Us %Us	20 60 80 110 20
AC average coil consu	of 60Hz coil powered at 60Hz pick-up drop-out	max min max min max min max	%Us %Us %Us %Us %Us %Us	20 60 80 110 20 60
AC average coil const	of 60Hz coil powered at 60Hz pick-up drop-out umption at 20°C	max min max min max min	%Us %Us %Us %Us %Us	20 60 80 110 20



	of 50/60Hz coil powere	at 60HZ	in ruch	\/A	200
			in-rush	VA	300
<u></u>			holding	VA	10
Dissipation at holding :	≤20°C 50Hz			W	10
DC coil operating				.,	40
DC rated control voltage	ge			V	48
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				
			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			
			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 mot	or			
			at 480V	А	124
			at 600V	А	125
Yielded mechanical pe	erformance				
·	for three-phase AC mo	otor			
			200/208V	HP	50
			220/230V	HP	50
General USE					
	Contactor				
			AC current	А	250
Short-circuit protection	n fuse, 600V				
	Standard fault				
			Short circuit current	kA	5
			Fuse rating	A	500
			Fuse class		RK5
Ambient conditions					
Temperature					
	Operating temperature				
			min	°C	-50
			min	U U	-00

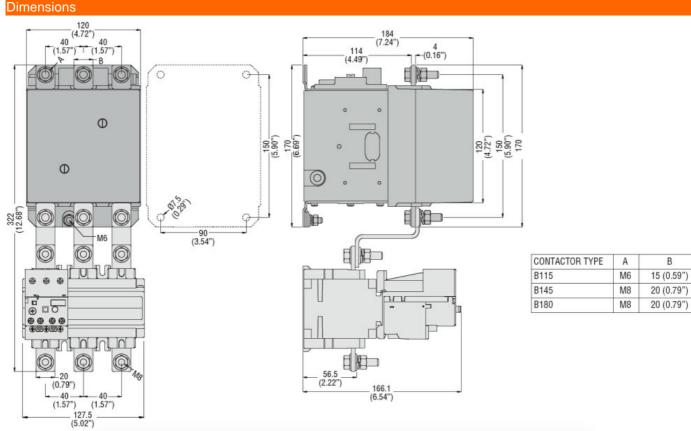
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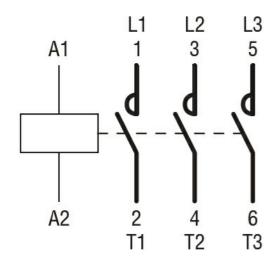


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	max	°C	70
Storage temperature			
	min	°C	-60
	max	°C	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3



Wiring diagrams



Certifications and compliance

Compliance

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

ETIM 8.0

EC000066 -Power contactor, AC switching