



Product designation Product type designation			Power contactor B145
Contact characteristics			
Number of poles		Nr.	4
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		Α	250
Operational current le			
	AC-1 (≤40°C)	Α	250
	AC-1 (≤55°C)	Α	235
	AC-1 (≤70°C)	Α	190
	AC-3 (≤440V ≤55°C)	Α	150
	AC-4 (400V)	Α	57
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			
	75V	Α	220
	110V	Α	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

ENERGY AND AUTOMATION

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FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 250A, AC/DC COIL, 110...125VAC/DC

EC 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	Α	_
EC 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	A	140
	220V	A	120
	330V	A	90
IFC may assemble in DC2 DC5 with L/D < 45mg with 4 males in series	460V	A	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	751	^	100
	75V	Α	160
	110V	Α	140
	220V	Α	140
	330V	Α	140
	460V	Α	90
Short-time allowable current for 10s (IEC/EN60947-1)		Α	1300
Protection fuse			
	gG (IEC)	Α	250
	aM (IEC)	Α	160
Making capacity (RMS value)		Α	1500
Breaking capacity at voltage			
	440V	Α	1500
	500V	Α	1400
	690V	Α	1200
Resistance per pole (average value)		mΩ	0.3
Power dissipation per pole (average value)			
Tower dissipation per pole (are age value)	Ith	W	14.5
	AC-3	W	6.8
Tightening torque for terminals	7.0 0	• • • • • • • • • • • • • • • • • • • •	0.0
Tightoning torque for terminals	min	Nm	18
	min		
	max	Nm Ibin	18
	min	lbin	13.3
T'. I de c'es de como d'es es 11 de cost col	max	lbin	13.3
Tightening torque for coil terminal	_		
	min	Nm	1
	max	Nm	1
	min	lbin	0.74
	max	lbin	0.74
Max number of wires simultaneously connectable		Nr.	2
Conductor postion			
Conductor Section			
AWG/Kcmil			
	max		4/0
Conductor section AWG/Kcmil Power terminal protection according to IEC/EN 60529	max		4/0 IP00



Operating position

Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing Weight				Screw 6340
Conductor section			g	0340
Soliductor Section	AMC/komil conductor coation			
	AWG/kcmil conductor section	max		4/0
Operations		IIIAX		4/0
Mechanical life			cycles	10000000
Electrical life			cycles	1100000
Safety related data			Oyolos	1100000
	0d according to EN/ISO 13489-1			
r orrormaneo foror Bri	ou according to 2.17.00 10 100 1	rated load	cycles	1100000
		mechanical load	cycles	1000000
Mirror contats accordi	ng to IEC/EN 609474-4-1			yes
EMC compatibility	<u> </u>			yes
AC coil operating				
Rated AC voltage at 5	0/60Hz, 60Hz			
· ·		min	V	110
		max	V	125
AC operating voltage				
	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	•	0/11-	00
		min	%Us	20
	of COLIT poil noward at COLIT	max	%Us	60
	of 60Hz coil powered at 60Hz pick-up			
	pick-up	min	%Us	80
		max	%Us	110
	drop-out	IIIdX	/0 U 3	110
	GIOP OUL	min	%Us	20
		max	%Us	60
AC average coil consu	umption at 20°C			
9	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	300
		holding	VA	10
	of 50/60Hz coil powered at 60Hz	<u> </u>		
	·	in-rush	VA	300
		holding	VA	10
		<u> </u>	W	10





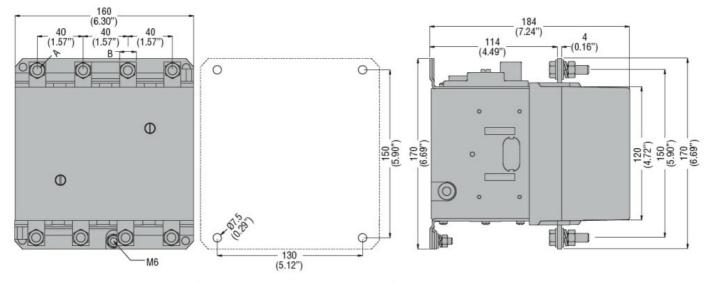
			min	V	110
			max	V	125
DC operating voltage					
	pick-up				
			min	%Us	80
			max	%Us	110
	drop-out				
	·		min	%Us	20
			max	%Us	60
Average coil consump	tion ≤20°C				
			in-rush	W	300
			holding	W	10
Max cycles frequency			, and the second		
Mechanical operation				cycles/h	2400
Operating times				c) 0.00,	
Average time for Us co	ontrol				
	in AC				
		Closing NO			
		Slooning 140	min	ms	60
			max	ms	100
		Opening NO	IIIdX	1113	100
		Opening NO	min	ms	25
			max	ms	60
	in DC		IIIdx	1113	00
	III DO	Closing NO			
		Closing NO	min	ms	60
			max	ms	100
		Opening NO	IIIax	1115	100
		Opening NO	min	mc	25
				ms	60
UL technical data			max	ms	00
) for three-phase AC mo	otor			
ruii-ioau current (FLA)	i for three-phase AC mc	JUI	at 480V	٨	124
				A	
V: - - -			at 600V	Α	125
Yielded mechanical pe					
	for three-phase AC m	ΙΟΙΟΓ	000/0001/	LID	50
			200/208V	HP	50
0			220/230V	HP	50
General USE					
	Contactor			_	
			AC current	Α	250
Short-circuit protection					
	Standard fault				
			Short circuit current	kA	5
			Fuse rating	Α	500
			Fuse class		RK5
Ambient conditions					
Temperature					
	Operating temperatur	e			
			min	°C	-50
			max	°C	70
	Storage temperature				
			min	°C	-60
			max	°C	80

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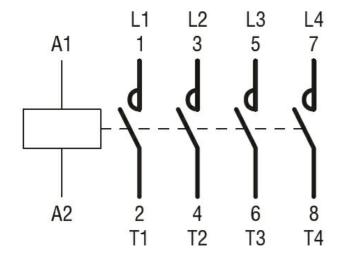


Dimensions



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

UL 60947-1

UL 60947-4-1

Certificates

CCC

cULus

EAC





ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching