

## FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 250A, AC/DC COIL, 380...415VAC/DC



Product designation Product type designation			Power contactor B145
Contact characteristics			B145
Number of poles		Nr.	4
Rated insulation voltage Ui IEC/EN		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operational frequency		ICV .	
Sperational frequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	max	A	250
Operational current le			200
operational current le	AC-1 (≤40°C)	Α	250
	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-1 (T≤40°C)	7.0 + (+00V)		<u> </u>
Tatod operational power 70-1 (12-10 0)	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	090 V	KVV	210
Le max current le in De i with Lift 2 mis with i poles in series	75V	Α	220
	110V	A	110
	220V	A	_
	330V	A	_
	460V	A	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
20 max current to in 201 with 2/102 miles with 2 poics in 30/103	75V	Α	220
	110V	A	150
	220V	A	130
	330V	A	_
	460V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	-100 V		
Le max current le in bet with Lift = 1ms with 5 poles in series	75V	Α	220
	110V	A	150
	220V	A	150
	330V	A	130
	460V	A	_
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series	₹00 (	,,	
max = and no may = mo may polocin dones	75V	Α	220
	110V	A	150
	220V	A	150
	330V	A	150
	460V	A	130
	100 V	, ,	



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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	_
EC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	+00 V	- / \	
neo max sarrent le in 200 200 with E/K = 10ms with 6 poles in series	75V	Α	160
	110V	A	140
	220V		
		A	120
	330V	A	90
IFO	460V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	751/		400
	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)			
and discipance para (are ago is us)	Ith	W	14.5
	AC-3	W	6.8
Tightening torque for terminals	710 0	•••	0.0
rightering torque for terminate	min	Nm	18
	max	Nm	18
	Παλ		13.3
	min		10.0
	min	lbin Ibin	12 2
Tightoning torque for coil torminal	min max	Ibin	13.3
Tightening torque for coil terminal	max	lbin	
Tightening torque for coil terminal	max min	Ibin Nm	1
Tightening torque for coil terminal	max min max	Nm Nm	1
Tightening torque for coil terminal	max min max min	Nm Nm Ibin	1 1 0.74
	max min max	Nm Nm Ibin Ibin	1 1 0.74 0.74
Max number of wires simultaneously connectable	max min max min	Nm Nm Ibin	1 1 0.74
Max number of wires simultaneously connectable Conductor section	max min max min	Nm Nm Ibin Ibin	1 1 0.74 0.74
Max number of wires simultaneously connectable	max min max min	Nm Nm Ibin Ibin	1 1 0.74 0.74
Tightening torque for coil terminal  Max number of wires simultaneously connectable  Conductor section  AWG/Kcmil	max min max min	Nm Nm Ibin Ibin	1 1 0.74 0.74



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#### Operating position

Operating position				
		normal		Vertical plan
Tiving a		allowable		±30°
Fixing Weight				Screw 6330
Conductor section			g	6330
Conductor Section	AMC/kamil aandustar aastian			
	AWG/kcmil conductor section	max		4/0
Operations		IIIAX		4/0
Mechanical life			cycles	10000000
Electrical life			cycles	1100000
Safety related data			0,0100	1100000
	d according to EN/ISO 13489-1			
		rated load	cycles	1100000
		mechanical load	cycles	10000000
Mirror contats accordin	g to IEC/EN 609474-4-1			yes
EMC compatibility	-			yes
AC coil operating				
Rated AC voltage at 50	/60Hz, 60Hz			
		min	V	380
		max	V	415
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out		0/11-	00
		min	%Us %Us	20 60
	of 50/60Hz coil powered at 60Hz	max	7008	60
	pick-up			
	ρισκ-αρ	min	%Us	80
		max	%Us	110
	drop-out	max	7000	110
	a.op	min	%Us	20
		max	%Us	60
	of 60Hz coil powered at 60Hz			
	pick-up			
	· ·	min	%Us	80
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	60
AC average coil consur	•			
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	300
	(70/001)	holding	VA	10
	of 50/60Hz coil powered at 60Hz			000
		in-rush	VA	300
Division of the	20000 5011-	holding	VA	10
Dissipation at holding ≤ DC coil operating	20°C 50HZ		W	10





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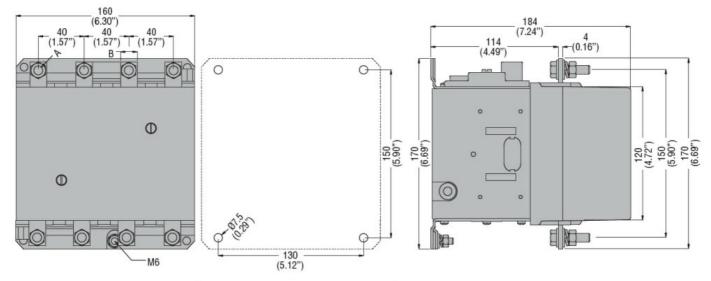
			min	V	380
			max	V	415
DC operating voltage					
, ,	pick-up				
			min	%Us	80
			max	%Us	110
	drop-out				
			min	%Us	20
			max	%Us	60
Average coil consump	tion ≤20°C				
5			in-rush	W	300
			holding	W	10
Max cycles frequency					
Mechanical operation				cycles/h	2400
Operating times				0,0100/11	2100
Average time for Us co	ontrol				
Average uniterior 05 of	in AC				
	шло	Closing NO			
		Closing NO	min	ms	60
			max	ms	100
		Opening NO	IIIdX	1110	100
		Opening NO	min	ms	25
					60
	in DC		max	ms	00
	III DC	Closing NO			
		Closing NO	min	ma	60
			min	ms	100
		On oning NO	max	ms	100
		Opening NO	min	ma	25
			min	ms	25
UL technical data			max	ms	60
	for three phase AC ma	otor.			
Full-load current (FLA)	) for three-phase AC mo	otor	-+ 400\/	Δ.	404
			at 480V	A	124
Violate di una altra nica di una			at 600V	Α	125
Yielded mechanical pe		-4			
	for three-phase AC m	otor	000/0001/	шъ	50
			200/208V	HP	50
0			220/230V	HP	50
General USE	0 1 1				
	Contactor				0.50
01 ( )	( 000)		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

**ENERGY AND AUTOMATION** 

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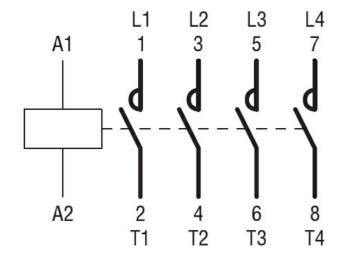


#### **Dimensions**



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





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ETIM classification

**ETIM 8.0** 

EC000066 -Power contactor, AC switching