

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



Product designation			Power contactor
Product type designation			B145
Contact characteristics		N I	4
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
1500	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

IEC 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			
·	75V	Α	160
	110V	Α	140
	220V	Α	120
	330V	Α	90
	460V	Α	_
EC max current le in DC3-DC5 with L/R = 15ms with 4 poles in series		,,	
20 max surrous to in 200 200 with 511 - 10mb with 4 poles in selies	75V	Α	160
	110V	A	140
	220V	A	140
	330V	A	140
	460V		90
Chart time allowable current for 10e (IEC/ENG0047.1)	400 V	A	
Short-time allowable current for 10s (IEC/EN60947-1)		A	1300
Protection fuse	~O (IEO)	۸	050
	gG (IEC)	A	250
M I: (DMO I )	aM (IEC)	A	160
Making capacity (RMS value)		Α	1500
Breaking capacity at voltage		_	
	440V	Α	1500
	500V	Α	1400
	690V	A	1200
Resistance per pole (average value)		m?	0.3
Power dissipation per pole (average value)			
	Ith	W	14.5
	AC3	W	6.8
Tightening torque for terminals			
	min	Nm	18
	max	Nm	18
	min	Ibin	13.3
	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	Пах	Nr.	2
Conductor section		141.	<u>-</u>
\\\/(≥/k omil			
AWG/Kcmil	mov		4/0
AWG/Kcmil  Power terminal protection according to IEC/EN 60529	max		4/0 IP00



### Operating position

Operating position				
		normal		Vertical plan
Fixing		allowable		±30° Screw
Weight				6340
Conductor section			g	0340
Solidacion Section	AWG/kcmil conductor section			
	AVVG/RCITIII COTIQUCIOI Section	max		4/0
Operations		max		4/0
Mechanical life			cycles	10000000
Electrical life			cycles	1100000
Safety related data			Oy 0100	1100000
	0d according to EN/ISO 13489-1			
		rated load	cycles	1100000
		mechanical load	cycles	10000000
Mirror contats according	ng to IEC/EN 609474-4-1		- 7	yes
EMC compatibility				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	0.0
		min	%Us	20
	of COLLE and married at COLL	max	%Us	60
	of 60Hz coil powered at 60Hz			
	pick-up	ma:-a	%Us	80
		min max	%Us %Us	80 110
	drop-out	ıılax	/0US	110
	diop-out	min	%Us	20
		max	%Us	60
AC average coil consu	umption at 20°C	шах	,003	
avolago oon oonst	of 50/60Hz coil powered at 50Hz			
	5. 55,001 12 5011 portorou at 501 12	in-rush	VA	300
		holding	VA	10
	of 50/60Hz coil powered at 60Hz		.,,	
	5. 55. 55. 12 55 p 5 51 50 dt 651 12	in-rush	VA	300
			VA	10
		holding	٧A	10





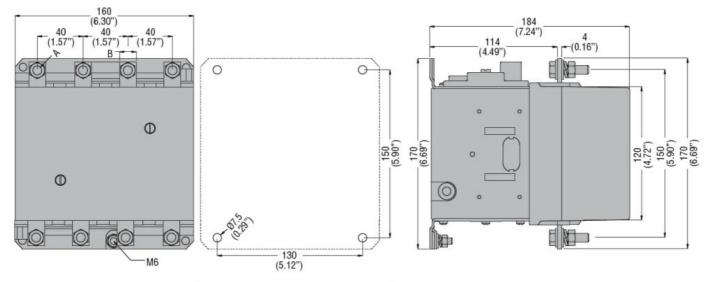
			min	V	110
			max	V	125
DC operating voltage					
	pick-up				
			min	%Us	80
			max	%Us	110
	drop-out				
	•		min	%Us	20
			max	%Us	60
Average coil consump	tion =20°C				
			in-rush	W	300
			holding	W	10
Max cycles frequency			3		-
Mechanical operation				cycles/h	2400
Operating times				c) 0.00,	
Average time for Us co	ontrol				
	in AC				
		Closing NO			
		Closing 110	min	ms	60
			max	ms	100
		Opening NO	Παλ	1113	100
		opening NO	min	ms	25
			max	ms	60
	in DC		IIIdx	1113	00
	III DC	Closing NO			
		Closing NO	min	ms	60
			max	ms	100
		Opening NO	IIIax	1115	100
		Opening NO	min	mc	25
				ms ms	60
UL technical data			max	ms	00
	) for three-phase AC mo	otor			
ruii-ioau curient (FLA)	) for timee-phase AC mic	וטוט	at 480V	٨	124
				A	
Violded medabonical na	- wf - w		at 600V	Α	125
Yielded mechanical pe					
	for three-phase AC m	ΙΟΙΟΓ	000/0001/	ш	50
			200/208V	HP	50
0			220/230V	HP	50
General USE	Occident				
	Contactor		4.0		050
01 1 1 1	( 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	re			
			min	°C	-50
			max	°C	70
	Storage temperature				
	·		min	°C	-60
			max	°C	80

**ENERGY AND AUTOMATION** 

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

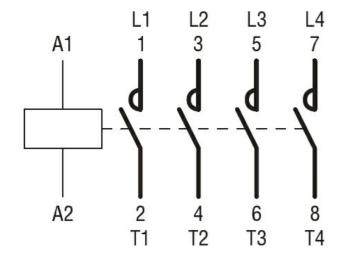


#### **Dimensions**



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