

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



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

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

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	_
IEC 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			
120 max carron to in 200 200 mai 2/11 Tomo mai o poloc in conce	75V	Α	160
	110V	A	140
	220V	A	120
	330V	A	90
	460V	A	
IEC may current to in DC2 DC5 with L/D < 15mg with 4 notes in series	4007	А	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	75\/	۸	400
	75V	A	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)			
, , ,	Ith	W	14.5
	AC-3	W	6.8
Tightening torque for terminals			
9 9 1	min	Nm	18
	(1111)		18
	min max	Nm	. •
	max	Nm Ibin	13.3
	max min	Ibin	13.3 13.3
Tightening torque for coil terminal	max		13.3 13.3
Tightening torque for coil terminal	max min max	lbin Ibin	13.3
Tightening torque for coil terminal	max min max min	Ibin Ibin Nm	13.3
Tightening torque for coil terminal	max min max min max	Ibin Ibin Nm Nm	13.3 1 1
Tightening torque for coil terminal	max min max min max min	Ibin Ibin Nm Nm Ibin	13.3 1 1 0.74
	max min max min max	Ibin Ibin Nm Nm Ibin Ibin	13.3 1 1 0.74 0.74
Max number of wires simultaneously connectable	max min max min max min	Ibin Ibin Nm Nm Ibin	13.3 1 1 0.74
Max number of wires simultaneously connectable Conductor section	max min max min max min	Ibin Ibin Nm Nm Ibin Ibin	13.3 1 1 0.74 0.74
Max number of wires simultaneously connectable	max min max min max min	Ibin Ibin Nm Nm Ibin Ibin	13.3 1 1 0.74 0.74 2
Tightening torque for coil terminal  Max number of wires simultaneously connectable  Conductor section  AWG/Kcmil  Power terminal protection according to IEC/EN 60529	max min max min max min	Ibin Ibin Nm Nm Ibin Ibin	13.3 1 1 0.74 0.74

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#### Operating position

Operating position	normal		Vertical plan
	normal allowable		Vertical plan ±30°
Fixing	anowabic		Screw
Weight		g	6280
Operations		9	0200
Mechanical life		cycles	10000000
Electrical life		cycles	1100000
Safety related data			
Performance level B10d according to EN/ISO 13489-1			
9	rated load	cycles	1100000
	mechanical load	cycles	10000000
Mirror contats according to IEC/EN 609474-4-1			Yes
EMC compatibility			yes
AC coil operating			
Rated AC voltage at 50/60Hz		V	48
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			
	min	%Us	20
	max	%Us	60
of 60Hz coil powered at 60Hz			
pick-up	•.	0/11-	0.0
	min	%Us	80
dram aud	max	%Us	110
drop-out	min	0/110	20
	min	%Us %Us	20 60
AC average coil consumption at 20°C	max	/0US	00
of 50/60Hz coil powered at 50Hz			
of 50/00f12 coll powered at 50H2	in-rush	VA	300
	holding	VA VA	10
of 50/60Hz coil powered at 60Hz	Holding	٧/١	
01 00/001 12 0011 powered at 001 12	in-rush	VA	300
	holding	VA	10
Dissipation at holding ≤20°C 50Hz		W	10
DC coil operating		**	. •
OC rated control voltage		V	48
DC operating voltage		· ·	
pick-up			
ριοίτ αρ	min	%Us	80
	max	%Us	110
drop-out	IIIAX	/003	110

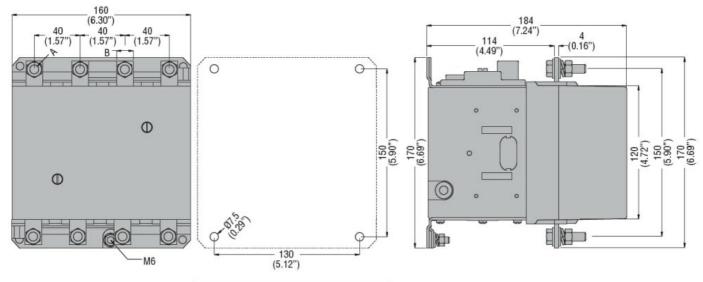


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			min	%Us	20
Average coil consump	tion <20°C		max	%Us	60
Average con consump	MOIT 320 C		in-rush	W	300
			holding	W	10
Max cycles frequency			3 3		
Mechanical operation				cycles/h	2400
Operating times					
Average time for Us co					
	in AC				
		Closing NO			
			min	ms	60
		On an in a NO	max	ms	100
		Opening NO	min	ma	25
				ms ms	60
	in DC		max	ms	00
	50	Closing NO			
		Clocking 110	min	ms	60
			max	ms	100
		Opening NO			
			min	ms	25
			max	ms	60
UL technical data					
Rated operational volta				V	600
Full-load current (FLA)	) for three-phase AC mot	tor			
			at 480V	Α	124
			at 600V	Α	125
Yielded mechanical pe					
	for three-phase AC mo	otor	200/2001	LID	50
			200/208V 220/230V	HP	50
General USE			ZZU/Z3UV	HP	50
General USE	Contactor				
	Contactor		AC current	Α	250
Short-circuit protection	n fuse. 600V		7.0 current	/ \	
z sirean protection	Standard fault				
			Short circuit current	kA	5
			Fuse rating	Α	500
			Fuse class		RK5
Ambient conditions					
Temperature					
	Operating temperature	<del>)</del>			
			min	°C	-50
	<del></del>		max	°C	70
	Storage temperature			0.0	00
			min	°C	-60
May altituda			max	°C	80
Max altitude	nn			m	3000
Resistance & Protection	OIT TO THE TOTAL THE TOTAL TO T				3
Pollution degree Dimensions					J
DILICIOIONS -					

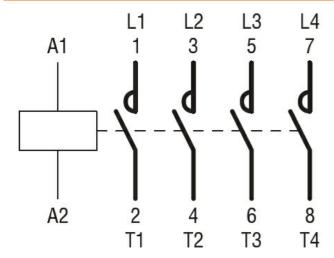
**ENERGY AND AUTOMATION** 

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



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