

## 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

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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			
·	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			
25 max sansing in 200 200 mai 2/1 = 10/10 mai + polos in solics	75V	Α	160
	110V	A	140
	220V	A	140
	330V	A	140
	460V		90
Short time allowable current for 100 (IEC/ENG0047.1)	400 V	A	
Short-time allowable current for 10s (IEC/EN60947-1)		Α	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)		mΩ	0.3
Power dissipation per pole (average value)			
	Ith	W	14.5
	AC-3	W	6.8
Tightening torque for terminals			
	min	Nm	18
	max	Nm	18
	min	lbin	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		Nr.	2
Conductor section			<del>-</del>
AWG/Kcmil			
AV G/NOIIII			4/0
	mav		
Power terminal protection according to IEC/EN 60529	max		IP00



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#### Operating position

	normal		Vertical plan
	allowable		±30°
Fixing			Screw
Weight		g	6400
Conductor section			
AWG/kcmil conductor section			
	max		4/0
Operations			
Mechanical life		cycles	10000000
Electrical life		cycles	1100000
Safety related data			
Performance level B10d according to EN/ISO 13489-1			
	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	24
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			
	min	%Us	80
	max	%Us	110
drop-out			
	min	%Us	20
	max	%Us	60
AC average coil consumption at 20°C			
of 50/60Hz coil powered at 50Hz			
	in-rush	VA	300
	holding	VA	10
of 50/60Hz coil powered at 60Hz			
·	in-rush	VA	300
	holding	VA	10
Dissipation at holding ≤20°C 50Hz	<u> </u>	W	10
DC coil operating			
DC rated control voltage		V	24
DC operating voltage			
pick-up			

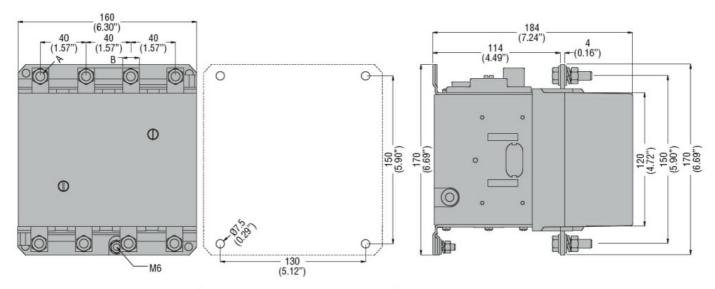


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			min	%Us	80
	-		max	%Us	110
	drop-out				
			min	%Us	20
			max	%Us	60
Average coil consump	tion ≤20°C		la male	10/	200
			in-rush holding	W W	300 10
Max cycles frequency			noluling	VV	10
Mechanical operation				cycles/h	2400
Operating times				Cyclc3/11	2400
Average time for Us co	ontrol				
	in AC				
	-	Closing NO			
		· ·	min	ms	60
			max	ms	100
		Opening NO			
			min	ms	25
			max	ms	60
	in DC	Olaski NO			
		Closing NO	i		00
			min max	ms ms	60 100
		Opening NO	IIIdx	1113	100
		Opening NO	min	ms	25
			max	ms	60
UL technical data					
Full-load current (FLA)	for three-phase AC m	otor			
			at 480V	Α	124
			at 600V	Α	125
Yielded mechanical pe					
	for three-phase AC r	notor	000/000/		
			200/208V	HP	50
Conoral LICE			220/230V	HP	50
General USE	Contactor				
	Contactor		AC current	Α	250
Short-circuit protection	fuse 600V		AO GUITEIR		200
Short should protocion	Standard fault				
			Short circuit current	kA	5
			Fuse rating	Α	500
			Fuse class		RK5
Ambient conditions					
Temperature					
	Operating temperatu	ire			
			min	°C	-50 50
	Otamanatasa		max	°C	70
	Storage temperature	)		°C	60
			min	°C	-60 80
Max altitude			max	m	3000
Resistance & Protection	on			111	3000
Pollution degree	<del>///-</del>				3
Dimensions					

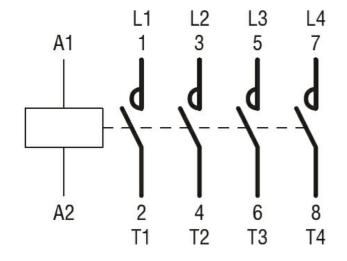
**ENERGY AND AUTOMATION** 

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CONTACTOR TYPE	А	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