



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	_
150 H : BO4 : 11 L/D 44 : 11 O L : : :	460V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	75\/	•	200
	75V	A	220
	110V	A	150
	220V	A	130
	330V	A	_
IFC may current to in DC1 with L/D < 1 mg with 2 notes in series	460V	A	
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	75V	٨	220
		A	220
	110V 220V	A A	150 150
	330V	A	130
	460V	A	
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series	400 V		
120 max outlette in 201 with 2/12 mile with 4 poles in selles	75V	Α	220
	110V	A	150
	220V	A	150
	330V	A	150
	460V	A	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	_
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	+00 V		
Let max current le in beg-beg with L/N 2 15ms with 5 poles in selles	75V	۸	160
	75 V 110 V	A	
		A	140
	220V	Α	120
	330V	Α	90
	460V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	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)	aivi (ILO)		1500
Breaking capacity at voltage			1300
Steaking capacity at voltage	4.40\/	۸	4500
	440V	A	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
	AC3	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			
2 · · · · · · · · · · · · · · · · · · ·	min	Nm	1
	max	Nm	1
	min	lbin	0.74
		lbin	
May number of wires simultaneously sennestable	max		0.74
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil			
	max		4/0



## Operating position

Operating position	normal		Vertical plan
	allowable		±30°
Fixing			Screw
Weight		g	6300
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, 60Hz			
	min	V	220
	max	V	240
AC operating voltage	<del></del>	· <u> </u>	
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			
5. 55. 55. 1 <u>2</u> 55 <b>F</b> 0 5.55 & 5	in-rush	VA	300
	holding	VA	10
Dissipation at holding ≤20°C 50Hz	110.01119	W	10
DC coil operating			. 5
DC rated control voltage			



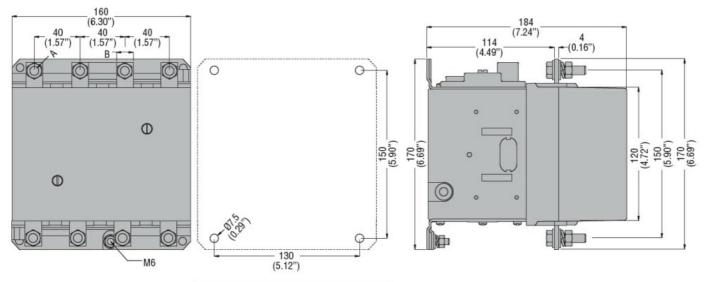
Four-pole contactor, IEC operating current Ith (AC1) = 250A, AC/DC coil, 220...240VAC/DC

			min	V	220
			max	V	240
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				.,	
Average time for Us co	ontrol				
	in AC				
		Closing NO			
		2.30.1.9 110	min	ms	60
			max	ms	100
		Opening NO	παλ	1113	.00
		opening 140	min	ms	25
			max	ms	60
	in DC		тах	1110	
	III DO	Closing NO			
		Glosling IVO	min	ms	60
			max	ms	100
		Opening NO	IIIdX	1113	100
		Opening NO	min	ms	25
			max	ms	60
UL technical data			Παλ	1113	00
Full-load current (FLA)	for three-phase AC	motor			
ruii-ioau current (FLA)	i ioi iiiiee-piiase AC	motor	at 480V	۸	124
			at 600V	A A	125
Violded machanical na	rformon on		at 600 v	A	120
Yielded mechanical pe		motor			
	for three-phase AC	IIIUIUI	000/0001	LID	FO
			200/208V	HP	50
			220/230V	HP	50
0			460/480V	HP	100
General USE	O a start				
	Contactor		•		0.50
<u></u>			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 tempera	ture			
			min	°C	-50
			max	°C	70
	Storage temperatu	ire			
	,		min	°C	-60

**ENERGY AND AUTOMATION** 

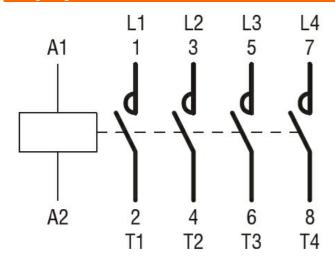
Four-pole contactor, IEC operating current Ith (AC1) = 250A, AC/DC coil, 220...240VAC/DC

	max	°C	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3
Dimonsions			



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





Four-pole contactor, IEC operating current Ith (AC1) = 250A, AC/DC coil, 220...240VAC/DC

EAC

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching