

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 150A, AC/DC COIL, 440...480VAC/DC



Product designation Product type designation			Power contactor B145
Contact characteristics			2110
Number of poles		Nr.	3
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)	A	57
Rated operational power AC-3 (T≤55°C)			
	230V	kW	46
	400V	kW	80
	415V	kW	88
	440V	kW	93
	500V	kW	100
	690V	kW	120
D-4-1	1000V	kW	75
Rated operational power AC-1 (T≤40°C)	0001/	1-107	0.4
	230V	kW	91
	400V 500V	kW kW	150 196
	690V	kW	270
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series	0907	KVV	210
TEC Max current le in DCT with E/N = This with 1 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	100 V	- , ,	
	75V	Α	220
	110V	Α	150
	220V	A	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



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	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	A	_
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			
	75V	Α	160
	110V	Α	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
01 (1) 11 11 11 11 11 11 11 11 11 11 11 11 1	460V	A	90
Short-time allowable current for 10s (IEC/EN60947-1)		Α	1300
Protection fuse	. 0 (150)		050
	gG (IEC)	A	250
Maline and site (DMC calca)	aM (IEC)	A	160
Making capacity (RMS value)		Α	1500
Breaking capacity at voltage	440)/	۸	4500
	440V	A	1500
	500V	A	1400
Desistance per pela (average value)	690V	A	1200
Resistance per pole (average value)		mΩ	0.3
Power dissipation per pole (average value)	lab.	14/	445
	Ith	W W	14.5
Tightoning torque for terminals	AC-3	٧٧	6.8
Tightening torque for terminals	min	Nim	10
	min	Nm Nm	18
	max	Nm	18
	min	lbin Ibin	13.3
Tightoning torque for coil terminal	max	lbin	13.3
Tightening torque for coil terminal	min	Nima	1
	min	Nm Nm	1
	max	Nm	1



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		min	lbin	0.74
		max	lbin	0.74
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		4/0
	tion according to IEC/EN 60529			IP00
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw
Weight			g	5380
Conductor section				
	AWG/kcmil conductor section			
		max		4/0
Operations				
Mechanical life			cycles	1000000
Electrical life			cycles	1100000
Safety related data				
Performance level B10	0d according to EN/ISO 13489-1			
		rated load	cycles	1100000
		mechanical load	cycles	10000000
	ng to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 50	0/60Hz, 60Hz			
		min	V	440
A O (1)		max	V	415
AC operating voltage	(50/0011 11 1 1 5011			
	of 50/60Hz coil powered at 50Hz			
	pick-up	•.	0/11-	00
		min	%Us	80
	المناب المنابلة	max	%Us	110
	drop-out	•	0/11-	20
		min	%Us	20
	of FO/COLLT poil powered at COLLT	max	%Us	60
	of 50/60Hz coil powered at 60Hz			
	pick-up	min	%Us	80
				00
				110
	drop out	max	%Us	110
	drop-out	max	%Us	
	drop-out	max min	%Us %Us	20
		max	%Us	
	of 60Hz coil powered at 60Hz	max min	%Us %Us	20
		max min max	%Us %Us %Us	20 60
	of 60Hz coil powered at 60Hz	max min max min	%Us %Us %Us	20 60 80
	of 60Hz coil powered at 60Hz pick-up	max min max	%Us %Us %Us	20 60
	of 60Hz coil powered at 60Hz	max min max min max	%Us %Us %Us %Us %Us	20 60 80 110
	of 60Hz coil powered at 60Hz pick-up	max min max min	%Us %Us %Us	20 60 80

AC average coil consumption at 20°C

of 50/60Hz coil powered at 50Hz



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			in-rush	VA	300
			holding	VA	10
	of 50/60Hz coil pow	ered at 60Hz			
			in-rush	VA	300
			holding	VA	10
Dissipation at holding :	≤20°C 50Hz			W	10
DC coil operating					
DC rated control voltage	ge				
·	-		min	V	440
			max	V	415
DC operating voltage					
	pick-up				
	p.o up		min	%Us	80
			max	%Us	110
	drop-out			,,,,,	
	5.0p 0at		min	%Us	20
			max	%Us	60
Average coil consump	tion ≤20°C		max	,,,,,	_ - •
, worage our consump			in-rush	W	300
			holding	W	10
Max cycles frequency			Holding	V V	10
Mechanical operation				cycles/h	2400
Operating times				Cycles/II	2400
-	antrol				
Average time for Us co	in AC				
	In AC	Clasing NO			
		Closing NO	min	m 0	60
			min	ms	
		Opening NO	max	ms	100
		Opening NO			25
			min	ms	25
	in DO		max	ms	60
	in DC	Olasia a NO			
		Closing NO			00
			min	ms	60
		On anima NO	max	ms	100
		Opening NO		100 C	25
			min	ms	25
UL technical data			max	ms	60
	for three phase AO	motor			
Full-load current (FLA)	nor unee-phase AC r	HOLOI	-1 1001	Λ	104
			at 480V	A	124
Violded mean resistant	rformor		at 600V	Α	125
Yielded mechanical pe					
	for three-phase AC	motor	000/0001/	LID	50
			200/208V	HP	50
			220/230V	HP	50
General USE					
	Contactor				
			AC current	Α	250
Short-circuit protection					
	Standard fault				
			Short circuit current	kA	5
			Fuse rating	Α	500
			Fuse class		RK5

ENERGY AND AUTOMATION

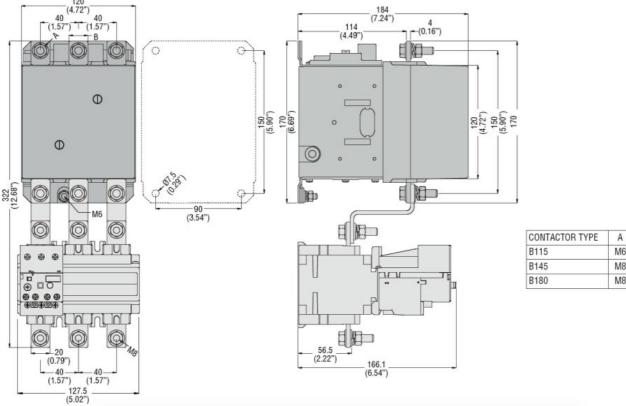
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Ambient conditions Temperature Operating temperature °C -50 min °C 70 max Storage temperature °C -60 min °C 80 max Max altitude 3000 m

Resistance & Protection

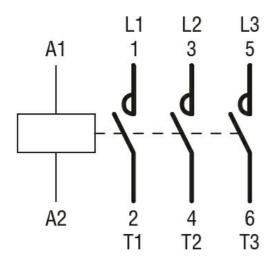
Pollution degree 3

Dimensions



CONTACTOR TYPE	A	В
B115	M6	15 (0.59")
B145	M8	20 (0.79")
B180	M8	20 (0.79")

Wiring diagrams



Certifications and compliance

Compliance



11B14500440

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	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