



Product type designation		Power contactor B145
Contact characteristics		БТТО
lumber of poles	Nr.	3
Rated insulation voltage Ui IEC/EN	V	1000
Rated impulse withstand voltage Uimp	kV	8
Derational frequency		
min	Hz	25
max	Hz	400
EC 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-3 (T≤55°C)		
230V	kW	46
400V	kW	80
415V	kW	88
440V	kW	93
500V	kW	100
690V	kW	120
1000V	kW	75
ated operational power AC-1 (T≤40°C)		
230V	kW	91
400V	kW	150
500V	kW	196
690V	kW	270
EC max current le in DC1 with L/R ≤ 1ms with 1 poles in series		000
75V	A	220
110V	A	110
220V	A	_
330V 460V	A A	_
EC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	^	_
To max current le in DCT with L/K \(\sime\) mis with 2 poles in series	Α	220
110V	A	150
220V	A	130
330V	A	- -
460V	A	_
EC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	,,	
75V	Α	220
110V	A	150
220V	A	150
220 V	, ,	



	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)	141-	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



		min	Ibin	0.74
		max	Ibin	0.74
	simultaneously connectable		Nr.	2
Conductor section	AMO (14			
	AWG/Kcmil			4/0
D (max		4/0
	ction according to IEC/EN 60529			IP00
Mechanical features				
Operating position		normal		Vertical plan
		normal allowable		Vertical plan ±30°
Fixing		allowable		Screw
Weight			- 0	5380
Conductor section			g	3300
CONTRACTOR SECTION	AWG/kcmil conductor section			
	7.144 C/Remiii conductor section	max		4/0
Operations		ınax		., .
Mechanical life			cycles	10000000
Electrical life			cycles	1100000
Safety related data			2,2.00	
	0d according to EN/ISO 13489-1			
	G	rated load	cycles	1100000
		mechanical load	cycles	10000000
Mirror contats accordi	ing to IEC/EN 609474-4-1		<u> </u>	yes
EMC compatibility				
Joinpanbling				yes
AC coil operating				yes
	50/60Hz, 60Hz			yes
AC coil operating	50/60Hz, 60Hz	min	V	220
AC coil operating Rated AC voltage at 5	50/60Hz, 60Hz	min max	V V	
AC coil operating	50/60Hz, 60Hz			220
AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz			220
AC coil operating Rated AC voltage at 5		max	V	220 240
AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz	max	V %Us	220 240 80
AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up	max	V	220 240
AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz	max min max	V %Us %Us	220 240 80 110
AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up	max min max min	V %Us %Us %Us	220 240 80 110 20
AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up drop-out	max min max	V %Us %Us	220 240 80 110
AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	max min max min	V %Us %Us %Us	220 240 80 110 20
AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up drop-out	max min max min max	V %Us %Us %Us %Us	220 240 80 110 20 60
AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	max min max min max	V %Us %Us %Us %Us %Us	220 240 80 110 20 60
AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	max min max min max	V %Us %Us %Us %Us	220 240 80 110 20 60
AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	min max min max min max	%Us %Us %Us %Us %Us	220 240 80 110 20 60
AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	min max min max min max min max min min max	%Us %Us %Us %Us %Us %Us	220 240 80 110 20 60 80 110 20
AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	min max min max min max	%Us %Us %Us %Us %Us	220 240 80 110 20 60
AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz	min max min max min max min max min min max	%Us %Us %Us %Us %Us %Us	220 240 80 110 20 60 80 110 20
AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	min max min max min max min max min max	%Us %Us %Us %Us %Us %Us %Us	220 240 80 110 20 60 80 110 20 60
AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz	min max min max min max min max min max min max	%Us %Us %Us %Us %Us %Us %Us	220 240 80 110 20 60 80 110 20 60
AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz pick-up	min max min max min max min max min max	%Us %Us %Us %Us %Us %Us %Us	220 240 80 110 20 60 80 110 20 60
AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz	min max min max min max min max min max min max	%Us %Us %Us %Us %Us %Us %Us	220 240 80 110 20 60 80 110 20 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 pov	wered 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	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					
Mechanical operation				cycles/h	2400
Operating times					
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				
		Closing NO			
			min	ms	60
			max	ms	100
		Opening NO			
			min	ms	25
I II to obvio al alata			max	ms	60
UL technical data	A four Abuser in least 100	mata.			
Full-load current (FLA)	i for three-phase AC	MOTOF	-1.4001/	۸	404
			at 480V	A	124
Violded mechanical as	orformanac		at 600V	Α	125
Yielded mechanical pe		motor			
	for three-phase AC	HIUIUI	200/2007	ЦD	50
			200/208V 220/230V	HP HP	50
General USE			ZZU/Z3UV	חר	50
General USE	Contactor				
	Contactor		AC aurrant	۸	250
Chart already waste of	tugo 600V		AC current	A	250
Short-circuit protection					
	Standard fault		Object aleasely a const	Ι. Λ	_
			Short circuit current	kA	5
			Fuse rating	Α	500
			Fuse class		RK5

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 150A, AC/DC COIL, 220...240VAC/DC

Ambient conditions

Temperature

Operating temperature

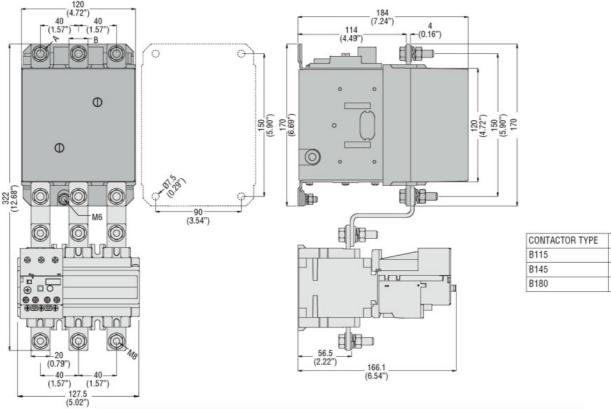
Operating temperature				
	min	°C	-50	
	max	°C	70	
Storage temperature				
	min	°C	-60	
	max	°C	80	
		m	3000	

Resistance & Protection

Pollution degree

Dimensions

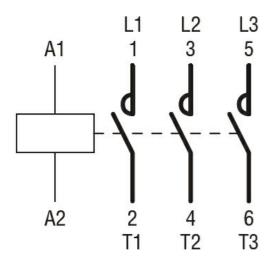
Max altitude



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

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Wiring diagrams



Certifications and compliance

Compliance



11B14500220

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 150A, AC/DC COIL, 220...240VAC/DC

	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