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



Product designation			Power contactor
Product type designation Contact characteristics			B145
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operational frequency		ΚV	0
operational frequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	max	A	250
Operational current le			200
oporational current to	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
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	75) (000
	75V	A	220
	110V	A	110
	220V	A	_
	330V 460V	A A	-
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	400 V		
TEO MAN outrette in DOT with L/N 2 This with 2 poles in selles	75V	Α	220
	110V	A	150
	220V	A	130
	330V	Α	_
	460V	A	_
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		- , ,	
120 max canonic to in 200 200 mai 2/12 Tome with 1 polos in conce	75V	Α	160
	110V	A	80
	220V	A	_
	330V	A	
			_
IFC many asymmetric in DC2 DC5 with L/D < 45 mag with 2 males in agriculture.	460V	A	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	751	۸	100
	75V	A	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
	460V	Α	90
Short-time allowable current for 10s (IEC/EN60947-1)		A	1300
Protection fuse		,,	1000
Totalion rasa	gG (IEC)	Α	250
	aM (IEC)	A	160
Making capacity (RMS value)	aivi (ILC)		1500
Breaking capacity (Nivis value)			1300
broaking capacity at voltage	440V	Α	1500
	500V	A	1400
	690V		
Desistance manuals (suggested to be a suggested	6907	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			
	min	Nm	18
	max	Nm	18
	min	lbin	13.3
	max	Ibin	13.3
Tightening torque for coil terminal			
	min	Nm	1
	max	Nm	1



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				a - 4
		min	Ibin	0.74
		max	Ibin	0.74
	imultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		4/0
Power terminal protect	tion according to IEC/EN 60529			IP00
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw
Weight			g	5430
Operations			y	3430
•			ovelee	1000000
Mechanical life			cycles	10000000
Electrical life			cycles	1100000
Safety related data				
Performance level B10	od 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		V	48
AC operating voltage				
, ,	of 50/60Hz coil powered at 50Hz			
	pick-up			
	p.o up	min	%Us	80
		max	%Us	110
	drop-out	Пах	7000	110
	drop out	min	%Us	20
		max	%Us	60
	of FO/60Hz poil powered at 60Hz	Παλ	/003	
	of 50/60Hz coil powered at 60Hz			
	pick-up		0/11-	00
		min	%Us	80
		max	%Us	110
	drop-out	-	0/11	00
		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 consu	mption 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
		Holding	٧, ١	. •



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Dissipation at holding ≤	≤20°C 50Hz			W	10
DC coil operating				\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	40
DC rated control voltage	je			V	48
DC operating voltage	pick-up				
	pick up		min	%Us	80
			max	%Us	110
	drop-out				
			min	%Us	20
			max	%Us	60
Average coil consumpt	tion ≤20°C				
			in-rush	W	300
Name and a financia			holding	W	10
Max cycles frequency Mechanical operation				ovelee/b	2400
Operating times				cycles/h	2400
Average time for Us co	entrol				
orago amo for oo oo	in AC				
		Closing NO			
		Ū	min	ms	60
			max	ms	100
		Opening NO			
			min	ms	25
	. 50		max	ms	60
	in DC	Ola aire a NO			
		Closing NO	min	ms	60
			max	ms	100
		Opening NO	max		
		3 -	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	A	124
Violded messberied no	wfo was a to a		at 600V	Α	125
Yielded mechanical pe		otor			
	for three-phase AC mo	A.O.I	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 Fuse class	Α	500 BK5
Ambient conditions			Fuse class		RK5
Temperature					
· omporatoro	Operating temperature)			
	, <u>g</u>		min	°C	-50
			max	°C	70

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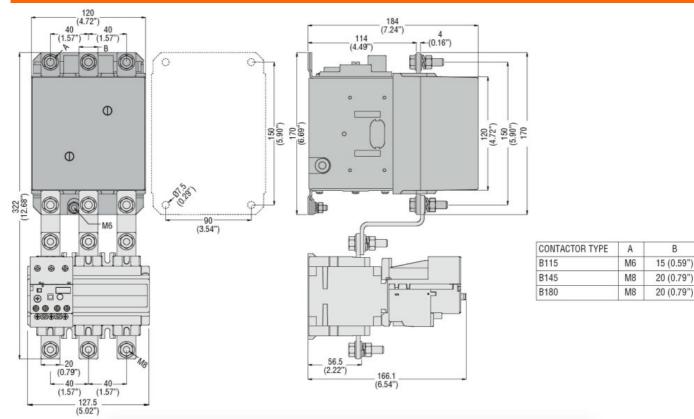
Storage temperature			
	min	°C	-60
	max	°C	80
		m	3000

Resistance & Protection

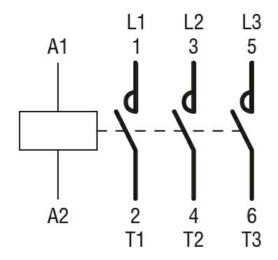
Pollution degree

Dimensions

Max altitude



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



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

	UL 60947-4-1	
Certificates		
	CCC	
	cULus	
	EAC	
ETIM classification	n	
		EC000066 -

ETIM 8.0

EC000066 Power contactor,
AC switching