

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 150A, AC/DC COIL, electric ALREADY FITTED WITH MECHANICAL LATCH (G495), 110...125VAC/DC, MECHANICAL LATCH

ENERGY AND AUTOMATION 110...125VAC



Product designation			Power contactor
Product type designation			B145
Contact characteristics			
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)	Α	57
Rated operational power AC-3 (T≤55°C)			
	400V	kW	80
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

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	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	A	
	460V	A	_
IFC many assemble in DC2 DCE with L/D < 45 mag with 2 males in acrise	400 V	<u> </u>	_ <del>-</del>
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	75)/	Δ.	400
	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	400 V		
TEC max current le in DC3-DC3 with E/K = 13ms 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)	,	Α	1500
Breaking capacity at voltage			
	440V	Α	1500
	500V	A	1400
	690V		1200
Desistance manuals (successive)	090 V	Α	
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	Ibin	13.3
	max	Ibin	13.3
Tightening torque for coil terminal			
<u> </u>	min	Nm	1
	max	Nm	1
	min	Ibin	0.74
May no make an of unique primary them are the same at all 1.	max	Ibin	0.74
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil			
	max		4/0



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Power terminal protect	ion according to IEC/EN 60529			IP00
Mechanical features	3			
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw
Weight			g	6060
Conductor section				
	AWG/kcmil conductor section			
		max		4/0
Operations				
Mechanical life			cycles	10000000
Electrical life			cycles	1100000
Safety related data				
Performance level B10	d according to EN/ISO 13489-1			
		rated load	cycles	1100000
	150/51/000/51/1/	mechanical load	cycles	10000000
	g to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating	0/00 I = 00 I =			
Rated AC voltage at 50	0/60HZ, 60HZ		\	440
		min	V V	110
AC operating voltage		max	V	125
AC operating voltage	of 50/60Hz coil powored at 50Hz			
	of 50/60Hz coil powered at 50Hz pick-up			
	ріск-ир	min	%Us	80
		max	%Us	110
	drop-out	max	7003	110
	diop 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		0/11	0.0
		min	%Us	20
10		max	%Us	60
AC average coil consu				
	of 50/60Hz coil powered at 50Hz	عامريس منا	١/٨	200
		in-rush	VA VA	300 10
	of 50/60Hz coil powered at 60Hz	holding	VA	10
	of 50/00112 coil powered at 60Hz	in-rush	VA	300
		holding	VA VA	10
	\$20°C 50Hz	noiding	W	10
	<del></del>		• •	-

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DC coil operating				
DC rated control voltag	e			
J		min	V	110
		max	V	125
DC operating voltage				
3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out			
	·	min	%Us	20
		max	%Us	60
Average coil consumpt	ion ≤20°C			
		in-rush	W	300
		holding	W	10
Max cycles frequency				
Mechanical operation			cycles/h	2400
Operating times				
Average time for Us co	ntrol			
	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
	0 NO	max	ms	100
	Opening NO			0.5
		min	ms	25
UL technical data		max	ms	60
	for three-phase AC motor			
Tull load culterit (LEA)	ioi tinee phase Ao motor	at 480V	Α	124
		at 600V	A	125
Yielded mechanical per	rformance	4,000,	- , ,	.20
,	for three-phase AC motor			
	,	200/208V	HP	50
		220/230V	HP	50
General USE				
	Contactor			
		AC current	Α	250
Short-circuit protection	fuse, 600V			
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	Α	500
		Fuse class		RK5
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			



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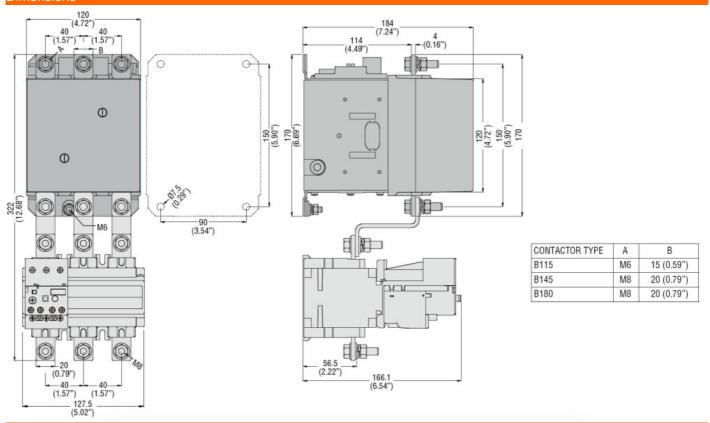
min	°C	-60
max	°C	80

Max altitude 3000 m

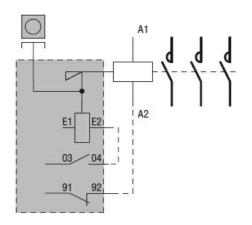
# Resistance & Protection

3 Pollution degree

#### **Dimensions**



# 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



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CCC				
cULus	_	_	_	•
EAC				

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching