

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...125VDC



Product type designation Surface Surfac	Product designation			Power contactor
Number of poles Nr. 3 Rated insulation voltage Ui IEC/EN V 1000 Rated insulation voltage Uimp kV 8 Operational frequency min HZ 25 max HZ 400 IEC Conventional free air thermal current lth A 250 Operational current le AC-1 (≤40°C) A 250 AC-1 (≤55°C) A 235 AC-1 (≤55°C) A 150 AC-3 (≤440°V ≤55°C) A 150 AC-2 (4000V) A 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 91 400V kW 150 500V kW 91 400V kW 150 690V kW 270 220 400V kW 220 IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series 75V A 220 110V A 150	Product type designation			B145
Rated insulation voltage Uil EC/EN V 1000 Rated impulse withstand voltage Uimp kV 8 Operational frequency min Hz 25 max Hz 400 IEC Conventional free air thermal current lth A 250 Operational current le AC-1 (≤40°C) A 250 AC-1 (555°C) A 235 AC-1 (570°C) A 190 AC-3 (≤400° S5°C) A 150 AC-4 (4000°) A 57 Rated operational power AC-3 (T≤55°C) 230V kW 91 400V kW 150 AC-4 (4000°) A 57 A 200 kW 150 500V kW 270 110 220V A - 330V A - 460V A - 460V A - 460V A - 460V A <td< td=""><td>Contact characteristics</td><td></td><td></td><td></td></td<>	Contact characteristics			
Rated impulse withstand voltage Ulimp	Number of poles		Nr.	3
Department Frequency Section Properties Proper	Rated insulation voltage Ui IEC/EN		V	1000
Min	Rated impulse withstand voltage Uimp		kV	8
IEC Conventional free air thermal current Ith	Operational frequency			
EC Conventional free air thermal current Ith		min	Hz	25
Operational current le AC-1 (≤40°C) A 250 AC-1 (≤55°C) A 235 AC-1 (≤70°C) A 190 AC-4 (400V) A 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 170 1EC max current le in DC1 with L/R ≤ 1ms with 2 poles in series 75V A 220 1EC max current le in DC1 with L/R ≤ 1ms with 3 poles in series 75V A 220 110V A 150 220V A 150 120V A 150 120V A 150 120V <td></td> <td>max</td> <td>Hz</td> <td>400</td>		max	Hz	400
AC-1 (≤40°C)	IEC Conventional free air thermal current Ith		Α	250
AC-1 (≤55°C)	Operational current le			
AC-1 (≤70°C) A 190 AC-3 (≤440V ≤55°C) A 150 AC-4 (400V) A 57 Rated operational power AC-3 (T≤55°C) ### 80 Rated operational power AC-1 (T≤40°C) ### 80 ### 80 Rated operational power AC-1 (T≤40°C) ### 80 ##		AC-1 (≤40°C)	Α	250
AC-3 (≤440V ≤55°C) A 150 AC-4 (400V) A 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 A 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 75V A 220 110V A 150 220V A 150 230V A - 460V A - IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series 75V A 220 110V A 150 220V A 150 230V A - 460V A - IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series 75V A 220 110V A 150 220V A 150 330V A - 460V A - IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series 75V A 220 110V A 150 220V A 150 330V A 130 460V A - IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series		AC-1 (≤55°C)	Α	235
Rated operational power AC-3 (T≤55°C)		AC-1 (≤70°C)	Α	190
Rated operational power AC-3 (T≤55°C) Rated operational power AC-1 (T≤40°C) 230V kW 91 400V kW 150 500V kW 150 500V kW 196 690V kW 270 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series 75V A 220 110V A 110 220V A - 330V A - 460V A - 110 460V A - 110 220V A 150 220V A 150 220V A 150 220V A 150 220V A - 130 330V A - 460V A - 150 220V A 130 330V A - 460V A - 150 220V A 150 330V A - 150 220V A 150 330V A 150 330V A 150 220V A 150 330V A 150 220V A 150 330V A 150 330V A 130 460V A - 150 220V A 150 330V A		AC-3 (≤440V ≤55°C)	Α	150
Rated 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 75V A 220 110V A 110 220V A - 330V A - 460V A - 110V A 150 220V 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 A 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 A 220 110V A 150 220V A 130 330V A - 460V A - EC max current le in DC1 with L/R ≤ 1ms with 4 poles in series 75V A 220 110V A 150 330V A - EC max current le in DC1 with L/R ≤ 1ms with 4 poles in series 75V A 220 110V A 150 110V A 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 A 220 110V A 110 220V A - 330V A - 330V A - 460V A - IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series 75V A 220 110V A 150 220V A 130 330V A - 460V A - IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series 75V A 220 1110V A 150 220V A 130 330V A - 460V A - IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series 75V A 220 110V A 150 220V A 150 330V A - 460V A - IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series 75V A 220 110V A 150 220V A 150 330V A - 75V A 220 110V A 150 330V A - 1EC max current le in DC1 with L/R ≤ 1ms with 4 poles in series	Rated operational power AC-3 (T≤55°C)			
		400V	kW	80
A00V kW 150 500V kW 196 690V kW 270	Rated operational power AC-1 (T≤40°C)			
Soov kW 196 690V kW 270		230V	kW	91
EC max current le in DC1 with L/R ≤ 1ms with 1 poles in series 75V			kW	150
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series		500V	kW	196
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		690V	kW	270
	IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
			Α	
BEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series T5V A 220			Α	110
EC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			Α	-
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			Α	-
		460V	A	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$				
TeC max current le in DC1 with L/R ≤ 1ms with 3 poles in series T5V				130
IEC max current le in DC1 with L/R \leq 1ms with 3 poles in series				_
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		460V	A	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series		_	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$				
$\frac{460 \text{V}}{\text{IEC max current le in DC1 with L/R}} \leq 1 \text{ms with 4 poles in series}$ $\frac{75 \text{V}}{110 \text{V}} \times \frac{A}{A} \times \frac{220}{150}$				
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series 75V A 220 110V A 150				
75V A 220 110V A 150	IFO was a summable in DOA with 1/D 4.4 and 1/1.4 and 1/1.4	460V	А	
110V A 150	IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series	 :		000
22UV A 15U				
		22UV	А	150

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110...125VDC

	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	400 V		
120 max current le in 200-2003 with 2/10 13 with 2 poles in series	75V	Α	160
	110V	A	120
	220V		
		A	90
	330V	A	_
150 DOS DOS 111 L/D + 45	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)		Α	1300
Protection fuse			
	gG (IEC)	Α	250
	aM (IEC)	Α	160
Making capacity (RMS value)	S (:=0)	A	1500
Breaking capacity at voltage		- , ,	1000
Distantly supposity at voltage	440V	Α	1500
	500V	A	1400
	690V		1200
Perietanes per pela (everage value)	090 v	A	
Resistance per pole (average value)		mΩ	0.3
Power dissipation per pole (average value)	1.0	147	44.5
	Ith	W	14.5
	AC-3	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			
	min	Nm	1
	max	Nm	1
	min	Ibin	0.74
	max	Ibin	0.74
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil			
, S/1.OHIII	max		4/0
	IIIGA		¬1 U



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ENERGY AND AUTOMATION

110...125VDC

Power terminal protection according to IEC/EN 60529			IP00
Mechanical features			
Operating position			
	normal		Vertical plan
	allowable		±30°
Fixing			Screw
Weight		g	6080
Conductor section			
AWG/kcmil conductor section			4/0
Operations	max		4/0
Operations Machaniae His		av sala a	40000000
Mechanical life		cycles	10000000
Electrical life		cycles	1100000
Safety related data			
Performance level B10d according to EN/ISO 13489-1	roted load	ovoloo	1100000
	rated load mechanical load	cycles	1100000
Mirror contate according to IEC/EN 600474 4 4	mechanicai ioad	cycles	10000000
Mirror contats according to IEC/EN 609474-4-1			yes
EMC compatibility AC coil operating			yes
Rated AC voltage at 50/60Hz, 60Hz			
Nateu AO Voltage at 50/00112, 0002	min	V	110
	max	V	125
AC operating voltage	IIIdX	v	120
of 50/60Hz coil powered at 50Hz			
pick-up			
ριοκ-αρ	min	%Us	80
	max	%Us	110
drop-out	max	7003	110
3.0p 34.	min	%Us	20
	max	%Us	60
of 50/60Hz coil powered at 60Hz			
pick-up			
F 4F	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			
	in-rush	VA	300
	holding	VA	10
Dissipation at holding ≤20°C 50Hz		W	10

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ENERGY AND AUTOMATION 110...125VDC

DC coil operating				
DC rated control volta	ige			
	~	min	V	110
		max	V	125
DC operating voltage			<u> </u>	-
z o oporaming romage	pick-up			
	p. 6 4p	min	%Us	80
		max	%Us	110
	drop-out		,,,,,	
	arop cut	min	%Us	20
		max	%Us	60
Average coil consump	otion <20°C	max	7000	
7 Wordgo con concum	0.011 = 20 0	in-rush	W	300
		holding	W	10
Max cycles frequency		rioiding	VV	10
Mechanical operation			cycles/h	2400
Operating times			Cyclc3/1	2400
Average time for Us c	control			
, worage unto tot 05 0	in AC			
	Closing NO			
	Ciosing NO	min	ms	60
		max	ms	100
	Opening NO	Παλ	1113	100
	Opening NO	min	ms	25
		max	ms	60
	in DC	Παλ	1113	00
	Closing NO			
	Closing NO	min	mo	60
			ms	100
	Opening NO	max	ms	100
	Opening NO	min	me	25
		min	ms	60
UL technical data		max	ms	00
	for three-phase AC motor			
ruii-ioau curierii (FLA	n) for three-phase AC motor	at 490\/	٨	104
		at 480V	A	124
Violded machanias!	orformanaa	at 600V	A	125
Yielded mechanical pe				
	for three-phase AC motor	200/2001	UD	50
		200/208V	HP	50
Conoral LICE		220/230V	HP	50
General USE	Contactor			
	Contactor	A O	Δ.	050
Chart disself control	n funa (COO)/	AC current	A	250
Short-circuit protection				
	Standard fault	01		_
		Short circuit current	kA	5
		Fuse rating	Α	500
A male in our training		Fuse class		RK5
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
	-	max	°C	70
	Storage temperature			



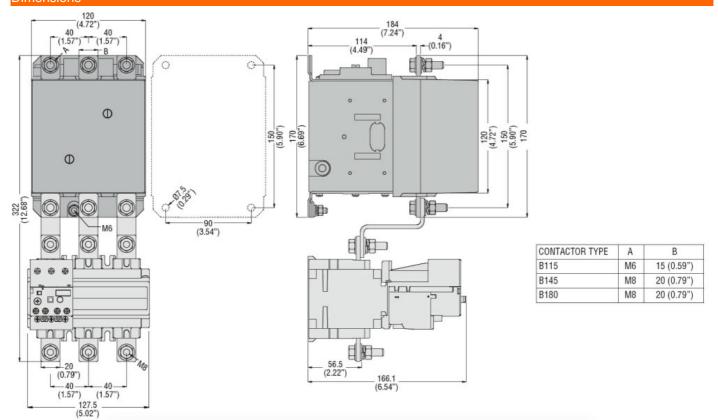
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ENERGY AND AUTOMATION

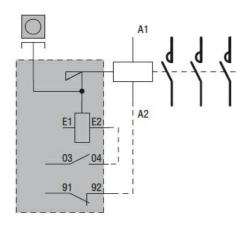
110...125VDC

	min	°C	-60	
	max	°C	80	
Max altitude		m	3000	
Resistance & Protection				
Pollution degree			3	

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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ENERGY AND AUTOMATION

CCC	
cULus	
EAC	

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching