

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 110A, AC/DC COIL, **electric** ALREADY FITTED WITH MECHANICAL LATCH (G495), 110...125VAC/DC, MECHANICAL LATCH 380...415VAC

**ENERGY AND AUTOMATION** 



Product designation			Power contactor
Product type designation			B115
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	160
Operational current le			
	AC-1 (≤40°C)	Α	160
	AC-1 (≤55°C)	Α	150
	AC-1 (≤70°C)	Α	110
	AC-3 (≤440V ≤55°C)	Α	110
9	AC-4 (400V)	Α	47
Rated operational power AC-3 (T≤55°C)			
9	400V	kW	61
Rated operational power AC-1 (T≤40°C)			
	230V	kW	57
	400V	kW	98
	500V	kW	129
	690V	kW	173
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
	75V	Α	160
	110V	Α	100
	220V	Α	_
	330V	Α	_
	460V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series		_	
	75V	Α	160
	110V	Α	130
	220V	A	100
	330V	A	_
150	460V	A	
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	751		400
	75V	A	160
	110V	A	130
	220V	A	130
	330V	A	100
IEC may current to in DC1 with L/D < 1mg with 4 pales in series	460V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series	75\/	۸	160
	75V 110V	A	160
	220V	A A	130 130
	2201	^	130

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	330V	Α	130
	460V	Α	100
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
·	75V	Α	140
	110V	Α	70
	220V	Α	_
	330V	Α	_
	460V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
μ	75V	Α	140
	110V	Α	100
	220V	Α	80
	330V	Α	_
	460V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	400 V		
TEC max current le in DC3-DC3 with E/N 3 13ms with 3 poles in series	75V	Α	140
	110V	A	120
	220V	A	100
	330V	A	80
150 DOS DOS 111 L/D 4.45 111 4 1 1 1 1 1	460V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series		_	
	75V	Α	140
	110V	Α	120
	220V	Α	120
	330V	Α	120
	460V	Α	80
Short-time allowable current for 10s (IEC/EN60947-1)		Α	1100
Protection fuse			
	gG (IEC)	Α	200
	aM (IEC)	Α	125
Making capacity (RMS value)		Α	1300
Breaking capacity at voltage			
	440V	Α	1300
	500V	Α	1100
	690V	Α	880
Resistance per pole (average value)		mΩ	0.3
Power dissipation per pole (average value)			
,	Ith	W	7.7
	AC-3	W	4
Tightening torque for terminals	7.00		•
Tighterming terique for terminate	min	Nm	10
	max	Nm	10
	min	Ibin	7.4
	max	Ibin	7.4
Max number of wires simultaneously connectable	Пах	Nr.	2
Conductor section		INI.	
AWG/Kcmil			2/0
De contracte de contracte de la CONTRACTE DE	max		2/0
Power terminal protection according to IEC/EN 60529			IP00
Mechanical features			
Operating position			
	normal		Vertical plan
	allowable		±30°



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Fixing				Screw
Weight			g	5950
Operations			Ţ.	
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
Mirror contats according	ng to IEC/EN 609474-4-1			Yes
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 50	0/60Hz, 60Hz			
		min	V	110
		max	V	125
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	60
	of 50/60Hz coil powered at 60Hz			
	pick-up		0/11-	00
		min	%Us	80
	draw aut	max	%Us	110
	drop-out	min	%Us	20
		min	%Us	60
	of 60Hz coil powered at 60Hz	max	7008	00
	pick-up			
	ріск-ир	min	%Us	80
		max	%Us	110
	drop-out	max	7000	110
	arop out	min	%Us	20
		max	%Us	60
AC average coil consu	imption at 20°C			
J 121102	of 50/60Hz coil powered at 50Hz			
	,	in-rush	VA	300
		holding	VA	10
	of 50/60Hz coil powered at 60Hz	<u> </u>		
	•	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	110
		max	V	125
DC operating voltage				
	pick-up			
		min	%Us	80
		max	%Us	110



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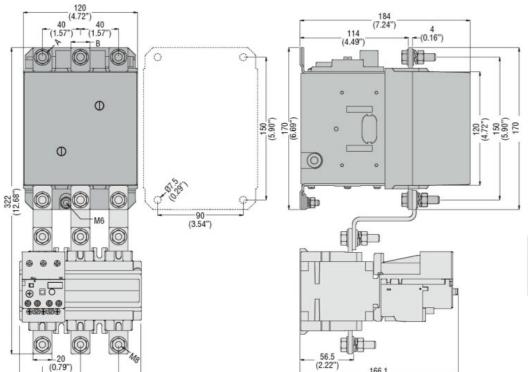
**Dimensions** 

drop-out min %Us 20 %Us 60 max Average coil consumption ≤20°C in-rush W 300 holding W 10 Max cycles frequency Mechanical operation cycles/h 2400 Operating times Average time for Us control in AC Closing NO 60 min ms 100 max ms Opening NO 25 min ms max 60 ms in DC Closing NO ms 60 min 100 max ms Opening NO min ms 25 60 max ms UL technical data Rated operational voltage AC (UL) ٧ 600 Full-load current (FLA) for three-phase AC motor at 480V Α 96 at 600V Α 99 Yielded mechanical performance for three-phase AC motor 200/208V HP 30 220/230V HP 40 575/600V HP 100 General USE Contactor AC current Α 160 Short-circuit protection fuse, 600V Standard fault Short circuit current kΑ 5 Fuse rating Α 500 Fuse class RK5 Ambient conditions Temperature Operating temperature °C -50 min °C 70 max Storage temperature °C -60 min °C 80 max 3000 Max altitude m Resistance & Protection Pollution degree 3

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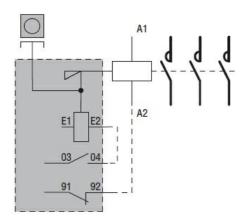


CONTACTOR TYPE	Α	В
B115	M6	15 (0.59")
B145	M8	20 (0.79")
B180	M8	20 (0.79")

## Wiring diagrams

(0.79")

(1.57") 127.5 (5.02")



## 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

CCC

cULus

EAC

## ETIM classification

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ETIM 8.0

EC000066 -Power contactor, AC switching