

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 160A, AC/DC COIL, 110...125VAC/DC



Product designation Product type designation			Power contactor B115
Contact characteristics			БПО
Number of poles		Nr.	4
Rated insulation voltage Ui IEC/EN		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operational frequency			
Operational requestoy	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	max	A	160
Operational current le			100
Operational current le	AC-1 (≤40°C)	Α	160
	AC-1 (≤55°C)	A	150
	AC-1 (≤70°C)	A	110
	AC-3 (≤440V ≤55°C)	A	110
	AC-3 (3440V 333 C) AC-4 (400V)	A	47
Rated operational power AC-1 (T≤40°C)	AC-4 (400V)	^	41
Rated operational power AC-1 (1540 C)	2201/	LAM	F.7
	230V	kW	57
	400V	kW	98
	500V	kW	129
150	690V	kW	173
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			4.0.0
	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	Α	100
	330V	Α	_
	460V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
	75V	Α	160
	110V	Α	130
	220V	Α	130
	330V	Α	100
	460V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	75V	Α	160
	110V	Α	130
	220V	Α	130
	330V	Α	130
	460V	Α	100

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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	400 V		
in series	751	۸	4.40
	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			
	75V	Α	140
	110V	Α	120
	220V	Α	100
	330V	Α	80
	460V		
IFC may autrent to in DC2 DC5 with 1/D < 45 == with 4 == 1 == in = 1	4007	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			4.40
	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			
1 10.000.011 10.00	gG (IEC)	Α	200
Making and site (DMC calca)	aM (IEC)	A	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)			
	lth	W	7.7
	AC-3	W	4
Tightoning targue for terminals	AC-3	V V	7
Tightening torque for terminals			4.0
	min	Nm	10
	max	Nm	10
	min	lbin	7.4
	max	lbin	7.4
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil			
	max		2/0
Power terminal protection according to IEC/EN 60529	Пах		IP00
			IF UU
Mechanical features			
Operating position			
	normal		Vertical plan
	allowable		±30°
Fixing			Screw
Weight		g	6220
- U		9	

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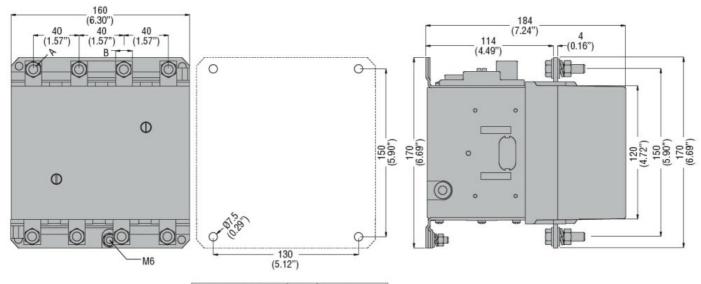
Operations				
Mechanical life			cycles	10000000
Electrical life			cycles	1100000
Safety related data				
Performance level B10	0d according to EN/ISO 13489-1			
		rated load	cycles	1100000
		mechanical load	cycles	10000000
Mirror contats according	ng to IEC/EN 609474-4-1			Yes
EMC compatibility				yes
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			
	·	min	%Us	80
		max	%Us	110
	drop-out			-
	5.5p 55.	min	%Us	20
		max	%Us	60
	of 60Hz coil powered at 60Hz			
	pick-up			
	1 2 2	min	%Us	80
		max	%Us	110
	drop-out		,,,,,	
	5.5p 55.	min	%Us	20
		max	%Us	60
AC average coil consu	Imption at 20°C	max		
	of 50/60Hz coil powered at 50Hz			
	5. 55/50. 12 55% porroi od di 50/12	in-rush	VA	300
		holding	VA	10
	of 50/60Hz coil powered at 60Hz	Holding	٧,١	
	5. 50/001 12 5011 poworod at 501 12	in-rush	VA	300
		holding	VA	10
Dissipation at holding :	<20°C 50Hz	Holding	W	10
DC coil operating			v v	10
DC rated control voltage	ne			
20 rated control voltag	y ~	min	V	110
		max	V	125
DC operating voltage		IIIdX	v	123
Do operating voltage	piek up			
	pick-up		0/11-	90
		min	%Us	80
	draw and	max	%Us	110
	drop-out	•	0/11-	20
		min	%Us	20
		max	%Us	60

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Average coil consumpt	ion ≤20°C				
, worage con concamp.			in-rush	W	300
			holding	W	10
Max cycles frequency			Ü		
Mechanical operation				cycles/h	2400
Operating times					
Average time for Us co	ntrol				
	in AC				
		Closing NO			
			min	ms	60
		0 : NO	max	ms	100
		Opening NO			0.5
			min	ms	25
	in DC		max	ms	60
	III DC	Closing NO			
		Closing NO	min	ms	60
			max	ms	100
		Opening NO	····an	5	
		i - 3 · · ·	min	ms	25
			max	ms	60
UL technical data					
Rated operational volta	ige AC (UL)			V	600
Full-load current (FLA)	for three-phase AC mot	tor			
			at 480V	Α	96
			at 600V	Α	99
Yielded mechanical pe					
	for three-phase AC mo	otor			
			200/208V	HP	30
			220/230V	HP	40
General USE			575/600V	HP	100
General USE	Contactor				
	Contactor		AC current	Α	160
Short-circuit protection	fuse 600V		AO GUITEIR		
Short should protocilon	Standard fault				
	Startaara radit		Short circuit current	kA	5
			Fuse rating	A	500
			Fuse class		RK5
Ambient conditions					
Temperature					
	Operating temperature)			
			min	°C	-50
			max	°C	70
	Storage temperature			2.2	00
			min	°C	-60
May altitude			max	°C	80
Max altitude				m	3000
Resistance & Protection Pollution degree					3
Dimensions					
Dimonolorio —					

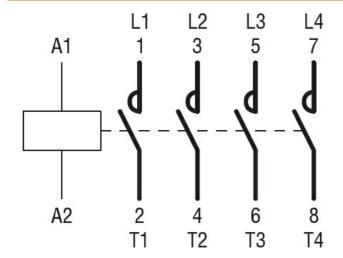
ENERGY AND AUTOMATION

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 160A, AC/DC COIL, 110...125VAC/DC



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

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

CCC

cULus

EAC

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching