FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 160A, AC COIL 50/60HZ, 110VAC



Product designation Power contactor
Product type designation BF115

Product type designation			BF115
Contact characteristics			
Number of poles		Nr.	4
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	130
	AC-1 (≤70°C)	Α	115
	AC-3 (≤440V ≤55°C)	Α	115
	AC-4 (400V)	Α	54
Rated operational current AC-3 (T≤55°C)			
	230V	Α	115
	400V	Α	115
	415V	Α	115
	440V	Α	115
	500V	Α	106
	690V	Α	106
	1000V	Α	39
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
	≤24V	Α	160
	48V	Α	160
	75V	Α	120
	110V	Α	10
	220V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
	≤24V	Α	160
	48V	Α	160
	75V	Α	160
	110V	Α	130
	220V	Α	14
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
	≤24V	Α	160
	48V	Α	160
	75V	Α	160
	110V	Α	140
	220V	A	145
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	Α	160
	48V	Α	160





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	75V	Α	160
	110V	Α	160
	220V	Α	160
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	Α	160
	48V	Α	50
	75V	Α	40
	110V	Α	6
	220V	Α	-
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	Α	160
	48V	Α	72
	75V	Α	65
	110V	Α	65
	220V	Α	7
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	≤24V	Α	160
	48V	Α	150
	75V	Α	100
	110V	Α	100
	220V	Α	92
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	Α	160
	48V	Α	120
	75V	Α	120
	110V	Α	125
	220V	Α	115
Short-time allowable current for 10s (IEC/EN60947-1)		Α	920
Protection fuse			
	gG (IEC)	Α	200
	aM (IEC)	Α	125
Making capacity (RMS value)		Α	1500
Breaking capacity at voltage			
	440V	Α	1200
	500V	Α	850
	690V	Α	905
Resistance per pole (average value)		mΩ	0.45
Power dissipation per pole (average value)			
	Ith	W	11.5
	AC-3	W	6.0
Tightening torque for terminals			
	min	Nm	6
	max	Nm	7
	min	Ibin	4.4
	max	Ibin	5.2
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	0.59
	max	lbin	0.74
Conductor section			
AWG/Kcmil			
, O/TO/III	max		2/0
	max		_, ~





BF115T4A110

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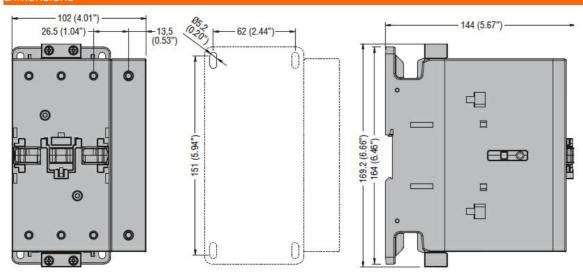
ENERGY AND ACTOMATION				
	Flexible w/o lug conductor section			
	. Isabio wo lag conductor section	min	mm²	1.5
		max	mm²	70
	Flexible c/w lug conductor section			
	•	min	mm²	1.5
		max	mm²	70
Power terminal protect	tion according to IEC/EN 60529			IP20 front
Mechanical features	•			
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail
				35mm
Weight			g	2420
Conductor section				
	AWG/kcmil conductor section			
		max		2/0
Operations				4=00====
Mechanical life			cycles	15000000
Electrical life			cycles	1200000
AC coil operating	2/2011		1.7	110
Rated AC voltage at 5	J/6UHZ		V	110
AC operating voltage	of E0/60Hz poil requested at E011-			
	of 50/60Hz coil powered at 50Hz			
	pick-up	m:-	0/110	80
		min	%Us %Us	110
	drop-out	max	/oUS	110
	diop-out	min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz	max	,,,,,	
	pick-up			
	F.c., %b	min	%Us	85
		max	%Us	110
	drop-out		_	
	•	min	%Us	40
		max	%Us	55
AC average coil consu	mption at 20°C			
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	300
		holding	VA	20
	of 50/60Hz coil powered at 60Hz			
		in-rush	VA	275
		holding	VA	17
	of 60Hz coil powered at 60Hz			
		in-rush	VA	300
		holding	VA	20
Max cycles frequency				
Mechanical operation			cycles/h	1500
Operating times				
Average time for Us co				
	in AC			
	Closing NO			40
		min	ms	16

ENERGY AND AUTOMATION

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	0	max	ms	32
	Opening l	NO min	ms	9
		max	ms	24
UL technical data				
General USE				
	Contactor			
		AC current	Α	165
Short-circuit protection fuse, 600V				
	High fault			
		Short circuit current	kA	100
		Fuse rating	Α	200
		Fuse class		J
	Standard fault			
		Short circuit current	kA	10
		Fuse rating	Α	250
		Fuse class		RK5
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	+80
Max altitude			m	3000

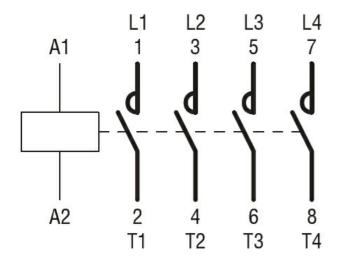
Dimensions



Wiring diagrams

ENERGY AND AUTOMATION

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Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN/BS 60947-1

IEC/EN/BS 60947-4-1

UL 60947-1

UL 60947-4-1

Certificates

CCC

cULus

EAC

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching