

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	Α	145
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series		_	400
	≤24V	Α	160
	48V	Α	160





	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	A	100
	220V	Α	92
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	40 AV		400
	≤24V	A	160
	48V	A	120
	75V 110V	A A	120 125
	220V	A	115
Short-time allowable current for 10s (IEC/EN60947-1)	220 V		920
Protection fuse			920
Trotection ruse	gG (IEC)	Α	200
	aM (IEC)	A	125
Making capacity (RMS value)	a (120)	A	1500
Breaking capacity at voltage		- , ,	1000
Disailing sapasity 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)			
The state of the s	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	Ibin	0.74
Conductor section			
AWG/Kcmil			
	max		2/0



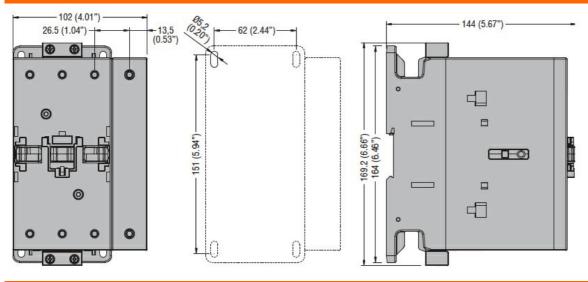


	Flexible w/o lug condu	uctor section			
	. 9		min	mm²	1.5
			max	mm²	70
	Flexible c/w lug condu	ictor section			
	3 1 1 1 1 3 1 1 1		min	mm²	1.5
			max	mm²	70
Power terminal protect	tion according to IEC/EN	N 60529			IP20 front
Mechanical features	Jan State of Grant State of St				
Operating position					
operation g pecition			normal		Vertical plan
			allowable		±30°
			anowabio		Screw / DIN rail
Fixing					35mm
Weight				g	2420
Conductor section				9	2 120
Conductor Scotlon	AWG/kcmil conductor	section			
	AVVG/KCITIII COTIQUCIOI	Section	max		2/0
Operations			IIIAX		2/0
Mechanical life				cycles	15000000
Electrical life				-	1200000
				cycles	1200000
AC coil operating	01.1-			\ /	100
Rated AC voltage at 6	JHZ			V	120
AC operating voltage	( 001 1 1 1 1				
	of 60Hz coil powered				
		pick-up			
			min	%Us	80
		_	max	%Us	110
		drop-out			
			min	%Us	20
			max	%Us	55
AC average coil consu					
	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			
			min	ms	16
			max	ms	32
		Opening NO			
			min	ms	9
			max	ms	24
UL technical data					
General USE					
	Contactor				
			AC current	Α	165
Short-circuit protection	n fuse, 600V				
•	High fault				
	<b>.</b>		Short circuit current	kA	100
			Fuse rating	Α	200
			Fuse class		J

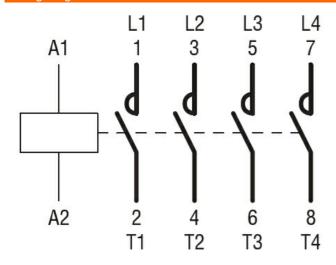


	Standard fault			
		Short circuit current	kA	10
		Fuse rating	Α	250
		Fuse class		RK5
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	+80
Max altitude			m	3000

#### **Dimensions**



### Wiring diagrams



### 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



**ENERGY AND AUTOMATION** 

### BF115T4A12060

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 160A, AC COIL 60HZ, 120VAC

	UL 60947-4-1	
Certificates		
	CCC	
	cULus	
	EAC	
ETIM classification		
		EC000066 -

ETIM 8.0

EC000066 -Power contactor, AC switching