

# FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 160A, AC COIL 60HZ, 24VAC



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





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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
Short-time allowable current for 10s (IEC/EN60947-1)  Protection fuse			920
Short-time allowable current for 10s (IEC/EN60947-1) Protection fuse		Α	
·	gG (IEC)	A	920 200 125
Protection fuse		Α	200 125
Protection fuse  Making capacity (RMS value)	gG (IEC)	A A A	200
Protection fuse	gG (IEC) aM (IEC)	A A A	200 125 1500
Protection fuse  Making capacity (RMS value)	gG (IEC) aM (IEC) 440V	A A A	200 125 1500 1200
Protection fuse  Making capacity (RMS value)	gG (IEC) aM (IEC) 440V 500V	A A A A	200 125 1500 1200 850
Protection fuse  Making capacity (RMS value)  Breaking capacity at voltage	gG (IEC) aM (IEC) 440V	A A A A A	200 125 1500 1200 850 905
Protection fuse  Making capacity (RMS value)  Breaking capacity at voltage  Resistance per pole (average value)	gG (IEC) aM (IEC) 440V 500V	A A A A	200 125 1500 1200 850
Protection fuse  Making capacity (RMS value)  Breaking capacity at voltage	gG (IEC) aM (IEC) 440V 500V 690V	A A A A A A mΩ	200 125 1500 1200 850 905 0.45
Protection fuse  Making capacity (RMS value)  Breaking capacity at voltage  Resistance per pole (average value)	gG (IEC) aM (IEC) 440V 500V 690V	A A A A A	200 125 1500 1200 850 905 0.45
Protection fuse  Making capacity (RMS value)  Breaking capacity at voltage  Resistance per pole (average value)  Power dissipation per pole (average value)	gG (IEC) aM (IEC) 440V 500V 690V	A A A A A MΩ	200 125 1500 1200 850 905 0.45
Protection fuse  Making capacity (RMS value)  Breaking capacity at voltage  Resistance per pole (average value)	gG (IEC) aM (IEC) 440V 500V 690V	A A A A A MΩ W	200 125 1500 1200 850 905 0.45 11.5 6.0
Protection fuse  Making capacity (RMS value)  Breaking capacity at voltage  Resistance per pole (average value)  Power dissipation per pole (average value)	gG (IEC) aM (IEC) 440V 500V 690V Ith AC-3	A A A A A M Ω W W Nm	200 125 1500 1200 850 905 0.45 11.5 6.0
Protection fuse  Making capacity (RMS value)  Breaking capacity at voltage  Resistance per pole (average value)  Power dissipation per pole (average value)	gG (IEC) aM (IEC) 440V 500V 690V Ith AC-3	A A A A A M Ω W W Nm Nm	200 125 1500 1200 850 905 0.45 11.5 6.0
Protection fuse  Making capacity (RMS value)  Breaking capacity at voltage  Resistance per pole (average value)  Power dissipation per pole (average value)	gG (IEC) aM (IEC) 440V 500V 690V Ith AC-3	A A A A A MΩ W W Nm Nm Ibin	200 125 1500 1200 850 905 0.45 11.5 6.0
Making capacity (RMS value) Breaking capacity at voltage  Resistance per pole (average value) Power dissipation per pole (average value)  Tightening torque for terminals	gG (IEC) aM (IEC) 440V 500V 690V Ith AC-3 min max min	A A A A A M Ω W W Nm Nm	200 125 1500 1200 850 905 0.45 11.5 6.0
Protection fuse  Making capacity (RMS value)  Breaking capacity at voltage  Resistance per pole (average value)  Power dissipation per pole (average value)	gG (IEC) aM (IEC)  440V 500V 690V  Ith AC-3  min max min max	A A A A A M W W Nm Nm Ibin Ibin	200 125 1500 1200 850 905 0.45 11.5 6.0
Making capacity (RMS value) Breaking capacity at voltage  Resistance per pole (average value) Power dissipation per pole (average value)  Tightening torque for terminals	gG (IEC) aM (IEC)  440V 500V 690V  Ith AC-3  min max min max min max	A A A A A MΩ W W Nm Nm Ibin Ibin	200 125 1500 1200 850 905 0.45 11.5 6.0 6 7 4.4 5.2
Making capacity (RMS value) Breaking capacity at voltage  Resistance per pole (average value) Power dissipation per pole (average value)  Tightening torque for terminals	gG (IEC) aM (IEC)  440V 500V 690V  Ith AC-3  min max min max min max	A A A A A A MΩ W W Nm Nm Ibin Ibin Nm Nm	200 125 1500 1200 850 905 0.45 11.5 6.0 6 7 4.4 5.2
Making capacity (RMS value) Breaking capacity at voltage  Resistance per pole (average value) Power dissipation per pole (average value)  Tightening torque for terminals	gG (IEC) aM (IEC)  440V 500V 690V  Ith AC-3  min max min max min max min max	A A A A A A M W W W Nm Nm Ibin Ibin Nm Ibin	200 125 1500 1200 850 905 0.45 11.5 6.0 6 7 4.4 5.2
Making capacity (RMS value) Breaking capacity at voltage  Resistance per pole (average value) Power dissipation per pole (average value)  Tightening torque for terminals  Tightening torque for coil terminal	gG (IEC) aM (IEC)  440V 500V 690V  Ith AC-3  min max min max min max	A A A A A A MΩ W W Nm Nm Ibin Ibin Nm Nm	200 125 1500 1200 850 905 0.45 11.5 6.0 6 7 4.4 5.2
Protection fuse  Making capacity (RMS value) Breaking capacity at voltage  Resistance per pole (average value) Power dissipation per pole (average value)  Tightening torque for terminals  Tightening torque for coil terminal	gG (IEC) aM (IEC)  440V 500V 690V  Ith AC-3  min max min max min max min max	A A A A A A M W W W Nm Nm Ibin Ibin Nm Ibin	200 125 1500 1200 850 905 0.45 11.5 6.0 6 7 4.4 5.2
Protection fuse  Making capacity (RMS value)  Breaking capacity at voltage  Resistance per pole (average value)  Power dissipation per pole (average value)  Tightening torque for terminals  Tightening torque for coil terminal	gG (IEC) aM (IEC)  440V 500V 690V  Ith AC-3  min max min max min max min max	A A A A A A M W W W Nm Nm Ibin Ibin Nm Ibin	200 125 1500 1200 850 905 0.45 11.5 6.0 6 7 4.4 5.2



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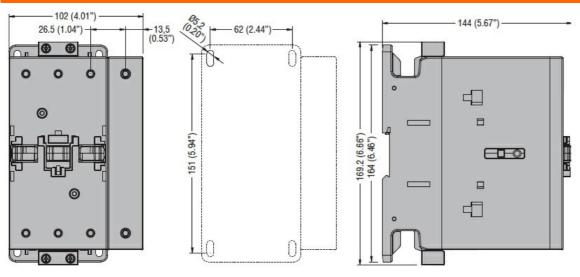
	Flexible w/o lug conductor section			
	<b>Č</b>	min	mm²	1.5
		max	mm²	70
	Flexible c/w lug conductor section			
	3	min	mm²	1.5
		max	mm²	70
Power terminal protect	tion according to IEC/EN 60529			IP20 front
Mechanical features	3			
Operating position				
31		normal		Vertical plan
		allowable		±30°
				Screw / DIN rail
Fixing				35mm
Weight			g	2420
Conductor section			<u> </u>	
	AWG/kcmil conductor section			
	/W S/Rollin conductor coolien	max		2/0
Operations		ax		•
Mechanical life			cycles	15000000
Electrical life			cycles	1200000
AC coil operating			5 y 0103	.20000
Rated AC voltage at 60	0Hz		V	24
AC operating voltage	0112		v	<u> </u>
Ac operating voltage	of 50/60Hz coil powered at 50Hz			
	drop-out			
	αιορ-οαι	max	%Us	55
	of 60Hz coil powered at 60Hz	IIIax	/003	33
	pick-up	min	%Us	80
			%Us	110
	drop out	max	/008	110
	drop-out	min	%Us	20
		max	%Us	55
AC average coil consu	umntion at 20°C	IIIdX	/003	
, to average con consc	of 60Hz coil powered at 60Hz			
	or our iz con powered at ounz	in-rush	VA	300
		in-rush holding	VA VA	20
Max cycles frequency		noiding	٧A	20
Mechanical operation			cycles/h	1500
Operating times			cycles/II	1300
•	ontrol			
Average time for Us co				
	in AC			
	Closing NO	ma!m	mc	16
		min	ms	16
	Ononing NO	max	ms	32
	Opening NO		m -	0
		min	ms	9
III to obvioul data		max	ms	24
UL technical data				
General USE	0 - 1 - 1 - 1			
	Contactor	<b>A O</b>		405
<u></u>		AC current	A	165
Short-circuit protection				
	High fault			



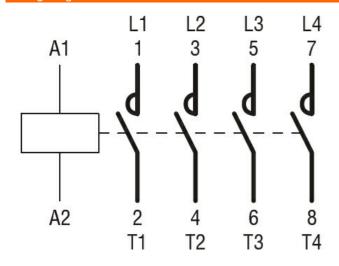
## FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 160A, AC COIL 60HZ,

		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				

### 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



#### BF115T4A02460

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	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