



Product designation Power contactor Product type designation BF115

Froduct type designation		ргио
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
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		
≤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



Making capacity (RMS value)					
S24V A 150			220V	Α	_
48V	IEC max current le in	DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
TSV			≤24V	Α	160
110V A 65 220V A 7			48V	Α	72
			75V	Α	65
EC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			110V	Α	65
\$24V			220V	Α	7
ABV	IEC max current le in	DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
75V			≤24V	Α	160
110V			48V	Α	150
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series S24V A 160 48V A 120 75V A 125 120 110V A 125 120			75V	Α	100
SEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			110V	Α	100
\$\frac{\$\color 24\text{V}}{48\text{V}}\$ A 160 48\text{V}{A} 120 75\text{V}{A} 120 110\text{V}{A} 125 120 110\text{V}{A} 125 120 110\text{V}{A} 125 120\text{V}{A} 125 125\text{V}{A} 125 125\text{V}{A} 125 125\text{V}{A} 125 125\text{V}{A} 125\text{V}{A} 125\text{V}{A} 125\text{V}{A} 120\text{V}{A} 120\text			220V	Α	92
A	IEC max current le in	DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
T5V			≤24V	Α	160
110V A 125 220V A 115 115 220V A 220 220V A 220 220V A 220 220V A 225 220V A 220V 2			48V	Α	120
Short-time allowable current for 10s (IEC/EN60947-1)			75V	Α	120
Short-time allowable current for 10s (IEC/EN60947-1)			110V	Α	125
Protection fuse			220V	Α	115
Making capacity (RMS value)	Short-time allowable of	current for 10s (IEC/EN60947-1)		A	920
Making capacity (RMS value) A 1550	Protection fuse				_
Making capacity (RMS value) A 1500			gG (IEC)	Α	200
Seaking capacity at voltage			aM (IEC)	Α	125
A 40V	Making capacity (RMS	S value)		Α	1500
S00V A 905	Breaking capacity at v	roltage			
Resistance per pole (average value) mΩ 0.45			440V	Α	1200
Resistance per pole (average value) mΩ 0.45			500V	Α	850
Power dissipation per pole (average value) Ith W			690V	Α	905
Ith W 11.5 AC3 W 6.0	Resistance per pole (a	average value)		mΩ	0.45
AC3 W 6.0	Power dissipation per	pole (average value)			
Tightening torque for terminals			Ith	W	11.5
min Nm 6 max Nm 7 min lbin 4.4 max lbin 5.2			AC3	W	6.0
max Nm 7 min Ibin 4.4 max Ibin 5.2	Tightening torque for t	terminals			
Min			min	Nm	6
Max Ibin 5.2			max	Nm	7
Tightening torque for coil terminal			min	Ibin	4.4
min Nm 0.8 max Nm 1 min Ibin 0.59 max Ibin 0.74			max	lbin	5.2
Max Nm 1 min Ibin 0.59 max Ibin 0.74	Tightening torque for o	coil terminal			
Max Nm 1 min Ibin 0.59 max Ibin 0.74	- •		min	Nm	0.8
Min Ibin 0.59 max Ibin 0.74					
Max Ibin 0.74			min	lbin	
AWG/Kcmil max 2/0 Flexible w/o lug conductor section min mm² 1.5 max mm² 70 Flexible c/w lug conductor section min mm² 1.5 max mm² 70 Power terminal protection according to IEC/EN 60529 IP20 front			max	lbin	
max 2/0	Conductor section				
Flexible w/o lug conductor section min mm² 1.5 max mm² 70 Flexible c/w lug conductor section min mm² 1.5 max mm² 70 Flexible c/w lug conductor section min mm² 1.5 max mm² 70 Power terminal protection according to IEC/EN 60529 IP20 front		AWG/Kcmil			
min mm² 1.5 max mm² 70 Flexible c/w lug conductor section min mm² 1.5 max mm² 70 min mm² 1.5 max mm² 70 min mm² 70 max mm² 70 min mm² 1.5 max			max		2/0
		Flexible w/o lug conductor section			
Flexible c/w lug conductor section min mm² 1.5 max mm² 70 Power terminal protection according to IEC/EN 60529 IP20 front			min	mm²	1.5
min mm² 1.5 max mm² 70 Power terminal protection according to IEC/EN 60529 IP20 front			max	mm²	70
min mm² 1.5 max mm² 70 Power terminal protection according to IEC/EN 60529 IP20 front		Flexible c/w lug conductor section			
Power terminal protection according to IEC/EN 60529 IP20 front			min	mm²	1.5
, ,			max	mm²	70
Mechanical features	Power terminal protect	ction according to IEC/EN 60529			IP20 front
	Mechanical features				



Operating position

BF115T4A230

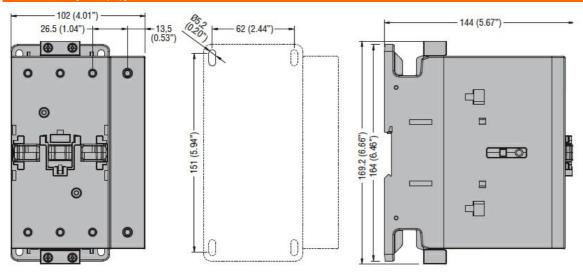
Operating position		normal allowable		Vertical plan ±30°
Fixing				Screw / DIN rail 35mm
Weight			g	2420
Conductor section				
	AWG/kcmil conductor section			
		max		2/0
Operations				
Mechanical life			cycles	15000000
Electrical life			cycles	1200000
AC coil operating				
Rated AC voltage at 50	0/60Hz		V	230
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	55
	of 50/60Hz coil powered at 60Hz			
	pick-up		0/11	0.5
		min	%Us	85
	dana and	max	%Us	110
	drop-out		0/116	40
		min	%Us %Us	40 55
AC average coil consu	motion at 20°C	max	7005	55
AC average con consu	of 50/60Hz coil powered at 50Hz			
	or 50/60112 con powered at 50112	in-rush	VA	300
		holding	VA VA	20
	of 50/60Hz coil powered at 60Hz	Holding	V/\	20
	or 30/00112 con powered at 00112	in-rush	VA	275
		holding	VA	17
	of 60Hz coil powered at 60Hz	Holding	٧/١	17
	01 001 12 0011 poworod at 001 12	in-rush	VA	300
		holding	VA	20
Max cycles frequency				
Mechanical operation			cycles/h	1500
Operating times			.,	
Average time for Us co	ontrol			
· ·	in AC			
	Closing NO			
	ŭ	min	ms	16
		max	ms	32
	Opening NO			
	, ,	min	ms	9
		max	ms	24
UL technical data				
General USE				
	Contactor			
		AC current	Α	165



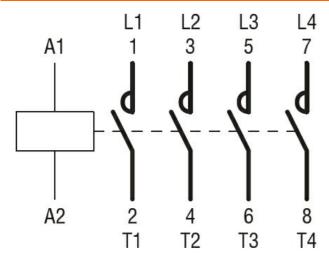
ENERGY AND AUTOMATION

Short-circuit protection	on 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 [mm (in)]



Wiring diagrams



Certifications and compliance

Compliance

CSA C22.2 n° 60947-1





CONTACTEUR BF115T4A, 4P (NO), 160A AC1, 230V 50/60HZ

	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
FTIM classification	

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching