

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 160A, AC COIL 60HZ, 230VAC



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	A	140
	220V	Α	145
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series		_	4.00
	≤24V	A	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	A	100
	220V	Α	92
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	40 A) /		400
	≤24V	A	160
	48V	A	120
	75V	A	120
	110V	A	125
Short-time allowable current for 10s (IEC/EN60947-1)	220V	A A	115 920
Protection fuse		A	920
Flotection fuse	gG (IEC)	Α	200
	aM (IEC)	A	125
Making capacity (RMS value)	aivi (ILC)		1500
Breaking capacity at voltage			1300
breaking capacity at voltage	440V	Α	1200
	500V	A	850
	690V	A	905
Resistance per pole (average value)	000 V	mΩ	0.45
Power dissipation per pole (average value)		11132	0.40
Tower discipation per pero (average value)	Ith	W	11.5
	AC-3	W	6.0
Tightening torque for terminals	7.00		
rigino.mig to que les terminale	min	Nm	6
	max	Nm	7
	min	lbin	4.4
	max	Ibin	5.2
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbin	0.59
	max	lbin	0.74
Conductor section			
AWG/Kcmil			
	max		2/0



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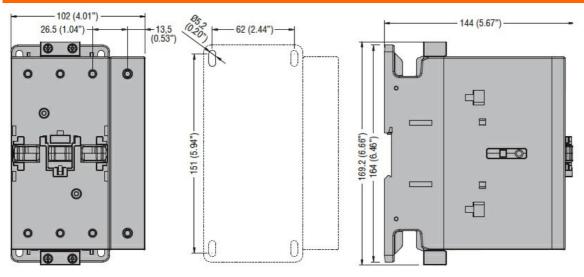
	Flexible w/o lug conductor section			
	r lexible w/o lug conductor section	min	mm²	1.5
		max	mm²	70
	Flexible c/w lug conductor section	Παλ	111111	70
	Flexible C/W lug colludctol Section	min	mm²	1.5
			mm²	70
Dawar tarminal protect	tion according to IEC/EN COECO	max	ППП	
Mechanical features	tion according to IEC/EN 60529			IP20 front
Operating position				Montinal alam
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail
Maiabt				35mm
Weight			g	2420
Conductor section	ANA(O/I) - 11 - 1 - 1 - 1			
	AWG/kcmil conductor section			2/0
Operations		max		2/0
Operations Machanical life			a, l · ·	45000000
Mechanical life			cycles	15000000
Electrical life			cycles	1200000
AC coil operating				000
Rated AC voltage at 60	0Hz		V	230
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	drop-out			
		max	%Us	55
	of 60Hz coil powered at 60Hz			
	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			



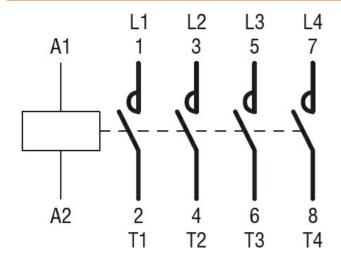
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		Short circuit current	kA	100
		Fuse rating	Α	200
		Fuse class		J
	Standard fault			
		Short circuit current	kA	10
		Fuse rating	Α	250
		Fuse class		RK5
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage 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



BF115T4A23060

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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