electric

ENERGY AND AUTOMATION

BF115T4A230 FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 160A, AC COIL 50/60HZ, 230VAC



Product designation			Power contactor
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		А	160
Operational current le			
'	AC-1 (≤40°C)	А	160
	AC-1 (≤55°C)	А	130
	AC-1 (≤70°C)	А	115
	AC-3 (≤440V ≤55°C)	А	115
	AC-4 (400V)	А	54
Rated operational current AC-3 (T≤55°C)			
	230V	А	115
	400V	А	115
	415V	А	115
	440V	А	115
	500V	А	106
	690V	А	106
	1000V	А	39
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
	≤24V	А	160
	48V	А	160
	75V	А	120
	110V	А	10
	220V	А	-
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	≤24V	А	160
	48V	А	160
	75V	А	160
	110V	А	130
	220V	А	14
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			
	≤24V	А	160
	48V	А	160
	75V	А	160
	110V	А	140
	220V	Α	145
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series			
	≤24V	А	160
	48V	А	160



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	75V	А	160
	110V	А	160
	220V	А	160
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 1 poles in series			
	≤24V	А	160
	48V	А	50
	75V	А	40
	110V	А	6
	220V	А	-
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 2 poles in series			
	≤24V	А	160
	48V	А	72
	75V	A	65
	110V	А	65
	220V	A	7
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 3 poles in series			
	≤24V	A	160
	48V	A	150
	75V	А	100
	110V	А	100
	220V	A	92
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 4 poles in series			
	≤24V	A	160
	48V	Α	120
	75V	A	120
	110V	A	125
	220V	A	115
Short-time allowable current for 10s (IEC/EN60947-1)		А	920
Protection fuse		_	
	gG (IEC)	A	200
	aM (IEC)	<u>A</u>	125
Making capacity (RMS value)		А	1500
Breaking capacity at voltage	4.401/		4000
	440V	A	1200
	500V	A	850
	690V	A	905
Resistance per pole (average value)		mΩ	0.45
Power dissipation per pole (average value)		147	44 5
	lth	W	11.5
The first first first first first first	AC-3	W	6.0
Tightening torque for terminals			
		Nime	6
	min	Nm	6
	max	Nm	7
	max min	Nm Ibin	7 4.4
Tightoning torque for cell to main al	max	Nm	7
Tightening torque for coil terminal	max min max	Nm Ibin Ibin	7 4.4 5.2
Tightening torque for coil terminal	max min max min	Nm Ibin Ibin Nm	7 4.4 5.2 0.8
Tightening torque for coil terminal	max min max min max	Nm Ibin Ibin Nm Nm	7 4.4 5.2 0.8 1
Tightening torque for coil terminal	max min max min max min	Nm Ibin Ibin Nm Nm Ibin	7 4.4 5.2 0.8 1 0.59
	max min max min max	Nm Ibin Ibin Nm Nm	7 4.4 5.2 0.8 1
Conductor section	max min max min max min	Nm Ibin Ibin Nm Nm Ibin	7 4.4 5.2 0.8 1 0.59
	max min max min max min	Nm Ibin Ibin Nm Nm Ibin	7 4.4 5.2 0.8 1 0.59

BF115T4A230



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230VAC

BF115T4A230

	Flexible w/o lug conductor section			
		min	mm²	1.5
		max	mm²	70
	Flexible c/w lug conductor section			
	J.	min	mm²	1.5
		max	mm²	70
Power terminal protect	tion according to IEC/EN 60529			IP20 front
Mechanical features				
Operating position				
51		normal		Vertical plan
		allowable		±30°
				Screw / DIN rail
Fixing				35mm
Weight			g	2420
Conductor section			3	
	AWG/kcmil conductor section			
		max		2/0
Operations				_, •
Mechanical life			cycles	15000000
Electrical life			cycles	1200000
AC coil operating			0,0000	1200000
Rated AC voltage at 5	0/60Hz		V	230
AC operating voltage	0,00112		v	200
AC operating voltage	of 50/60Hz coil powered at 50Hz			
	pick-up			
	pick-up	min	%Us	80
			%Us %Us	110
	drop out	max	%US	110
	drop-out	min	%Us	20
		min		20 55
		max	%Us	55
	of 50/60Hz coil powered at 60Hz			
	pick-up		0/110	05
		min	%Us	85
		max	%Us	110
	drop-out		0/11	10
		min	%Us	40
		max	%Us	55
AC average coil consu	•			
	of 50/60Hz coil powered at 50Hz	<u>_</u>		
		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	ontrol			
	in AC			
	Closing NO			
	<u> </u>	min	ms	16

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230VAC

		Opening N	max	ms	32
		Opening No	min	ms	9
			max	ms	24
UL technical data					
General USE					
	Contactor				
			AC current	А	165
Short-circuit protection	fuse, 600V				
	High fault				
			Short circuit current	kA	100
			Fuse rating	А	200
			Fuse class		J
	Standard fault				
			Short circuit current	kA	10
			Fuse rating	А	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					
+	- An				
26.5 (1.04")	13,5 (0.53") - 62 (2.44")				
	(0.55)				
0 0 0 0		U			
			° _		
Ø					
	H")-				
	(5.9		169.2 (6.66°) 164 (6.46°) -		
	- 151 (5.94")		1691	<b>B</b>	

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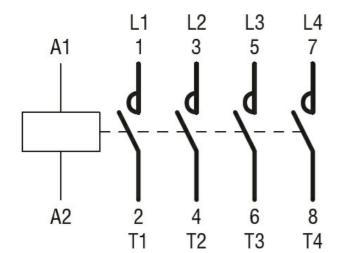
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## Certifications and compliance

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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