BF11500A048



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 115A, AC COIL 50/60HZ, 48VAC



Product designation			Power contactor
Product type designation			BF115
Contact characteristics			
Number of poles		Nr.	3
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 power AC-3 (T≤55°C)	- (/		-
	230V	kW	37
	400V	kW	55
	415V	kW	55
	440V	kW	55
	500V	kW	75
	690V	kW	110
	1000V	kW	55
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	A	160
	75V	A	120
	110V	А	10
	220V	А	_
IEC max current le in DC1 with L/R \leq 1ms with 2 poles in series			
· · · · · · · · · · · · · · · · · · ·	≤24V	А	160
	48V	A	160
	75V	A	160
	110V	A	130
	220V	A	14
	2201		

IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series



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	≤24V	А	160
	48V	Α	160
	75V	А	160
	110V	А	140
	220V	А	145
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	А	160
	48V	A	160
	40V 75V	A	160
	110V	A	160
	220V	A	160
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series	2201	~	100
The max current is in DC3-DC3 with $L/R \le 15$ ms with 1 poles in series	<241/	^	160
	≤24V	A	160
	48V	A	50
	75V	A	40
	110V	Α	6
	220V	A	_
IEC max current le in DC3-DC5 with L/R \leq 15ms with 2 poles in series			
	≤24V	А	160
	48V	Α	72
	75V	А	65
	110V	А	65
	220V	А	7
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	≤24V	А	160
	48V	А	150
	75V	A	100
	110V	A	100
	220V	A	92
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	2201	7.	02
	≤24V	А	160
	48V	A	120
	40V 75V	A	120
	110V	A	125
Obert time allowable average for 40a (IEO/ENCO047.4)	220V	A	115
Short-time allowable current for 10s (IEC/EN60947-1)		A	920
Protection fuse	o //= o`		
	gG (IEC)	A	200
	aM (IEC)	A	125
Making capacity (RMS value)		A	1500
Breaking capacity at voltage			
	440V	А	1200
	500V	Α	850
	690V	Α	905
Resistance per pole (average value)		mΩ	0.45
Power dissipation per pole (average value)			
	lth	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
	max		J.Z



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ENERGY AND AUTOMATION

Tightoning torque for	coil torminal			
Tightening torque for o		min	Nm	0.8
		max	Nm	0.8 1
		min	Ibin	0.59
		max	Ibin	0.74
Conductor section		Пах	10111	0.14
	AWG/Kcmil			
		max		2/0
	Flexible w/o lug conductor section			_, •
		min	mm²	1.5
		max	mm²	70
	Flexible c/w lug conductor section			
	č	min	mm²	1.5
		max	mm²	70
Power terminal protect	tion according to IEC/EN 60529			IP20 front
Mechanical features				
Operating position				
_ •		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	2020
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 5	50/60Hz		V	48
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-	05
		min	%Us	85
	dram and	max	%Us	110
	drop-out		0/11-	40
		min	%Us %Us	40 55
AC average coil cons	umption at 20°C	max	/005	55
no average coll colls	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	300
		holding	VA VA	20
	of 50/60Hz coil powered at 60Hz	noiuing	٧٨	20
		in-rush	VA	275
		holding	VA VA	17
		noiuing	٧A	11
	of 60Hz coil powered at 60Hz			
	of 60Hz coil powered at 60Hz	in-rush	VA	300

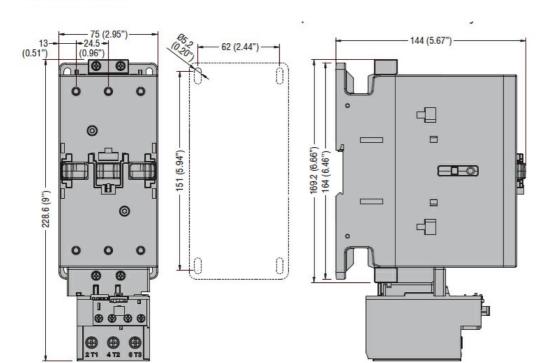


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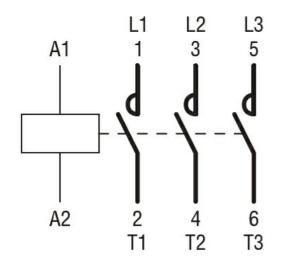
			holding	VA	20
Max cycles frequency					
Mechanical operation				cycles/h	1500
Operating times	1				
Average time for Us co					
	in AC				
		Closing NO	min		16
			min max	ms ms	32
		Opening NO	IIIdX	1115	52
		Opening NO	min	ms	9
			max	ms	24
UL technical data			Пах	1110	27
Yielded mechanical pe	rformance				
	for three-phase AC mo	otor			
			200/208V	HP	40
			220/230V	HP	40
			460/480V	HP	75
			575/600V	HP	100
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
	<u></u>		max	°C	70
	Storage temperature			•	00
			min	°C °C	-60
			max	°C	+80
Max altitude				m	3000
Dimensions					



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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	
	UL 60947-4-1	
Certificates		
	000	
	cULus	
ETIM classification		
ETIM 8.0		EC000066 - Power contactor, AC switching