

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 115A, AC/DC COIL, 20...48VAC/DC



Product designation Power contactor
Product type designation BF115

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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		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 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	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
IFC may current to in DC1 with L/D < 1 mg with 2 notes in carios			

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



BF11500E024

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	≤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	A	160
	110V	A	160
IFC may ourrent to in DC2 DC5 with L/D < 15mg with 1 males in parise	220V	A	160
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series	<241/	۸	160
	≤24V 48V	A A	160 50
	46 V 75 V	A	40
	110V	A	6
	220V	A	-
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	220 V		
120 max current le in 200-200 with 2/10 = 10ms with 2 poles in series	≤24V	Α	160
	48V	A	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
Protection fuse			
	gG (IEC)	Α	200
	aM (IEC)	Α .	125
Making capacity (RMS value)		Α	1500
Breaking capacity at voltage	4.40\/	•	1000
	440V	A	1200
	500V	A	850
Pocietance per pole (average value)	690V	A mΩ	905 0.45
Resistance per pole (average value)		11177	0.45
Power dissipation per pole (average value)	Ith	۱۸/	11.5
		W	11.5
Tightening torque for terminals	AC-3	W	6.0
righterning torque for terminals	min	Nlm	6
	min	Nm Nm	6 7
	max min	Ibin	<i>1</i> 4.4
	max	Ibin	5.2
	Παλ	וווטו	0.2



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Tightening torque for o				
	coil terminal			
		min	Nm	0.8
		max	Nm	1
		min	lbin	0.59
		max	lbin	0.74
Conductor section				
	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 protec	ction according to IEC/EN 60529			IP20 front
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
ixing				Screw / DIN rail
				35mm
Neight			g	2060
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	60/60Hz, 60Hz			
		min	V	20
		max	V	48
AC operating voltage				
	of EO/GOUT coil powered at EOUT			
	of 50/60Hz coil powered at 50Hz			
	pick-up			
	•	min	%Us	85 Us min
	pick-up	min max	%Us %Us	85 Us min 110
	•		%Us	110
	pick-up drop-out			
	pick-up drop-out of 50/60Hz coil powered at 60Hz	max	%Us	110
	pick-up drop-out	max max	%Us %Us	110 ≤70 Us min
	pick-up drop-out of 50/60Hz coil powered at 60Hz	max max min	%Us %Us %Us	110 ≤70 Us min 85 Us min
	pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	max max	%Us %Us	110 ≤70 Us min
	pick-up drop-out of 50/60Hz coil powered at 60Hz	max max min max	%Us %Us %Us %Us	110 ≤70 Us min 85 Us min 110 Us max
	pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	max max min	%Us %Us %Us	110 ≤70 Us min 85 Us min
AC average coil consi	pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	max max min max	%Us %Us %Us %Us	110 ≤70 Us min 85 Us min 110 Us max
AC average coil consi	pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	max max min max max	%Us %Us %Us %Us %Us	110 ≤70 Us min 85 Us min 110 Us max ≤70 Us min
AC average coil consi	pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	max max min max max in-rush	%Us %Us %Us %Us %Us %Us	110 ≤70 Us min 85 Us min 110 Us max ≤70 Us min
AC average coil const	drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out drop-out umption at 20°C of 50/60Hz coil powered at 50Hz	max max min max max	%Us %Us %Us %Us %Us	110 ≤70 Us min 85 Us min 110 Us max ≤70 Us min
AC average coil consi	pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max max in-rush holding	%Us %Us %Us %Us %Us %Us %Us	110 ≤70 Us min 85 Us min 110 Us max ≤70 Us min 70175 1.73.5
₹C average coil consi	drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out drop-out umption at 20°C of 50/60Hz coil powered at 50Hz	max max min max max in-rush holding in-rush	%Us %Us %Us %Us %Us VA VA	110 ≤70 Us min 85 Us min 110 Us max ≤70 Us min 70175 1.73.5
AC average coil consi	drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out drop-out umption at 20°C of 50/60Hz coil powered at 50Hz	max min max max in-rush holding	%Us %Us %Us %Us %Us %Us %Us	110 ≤70 Us min 85 Us min 110 Us max ≤70 Us min 70175 1.73.5
₹C average coil consi	drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out drop-out umption at 20°C of 50/60Hz coil powered at 50Hz	max max min max max in-rush holding in-rush	%Us %Us %Us %Us %Us VA VA	110 ≤70 Us min 85 Us min 110 Us max ≤70 Us min 70175 1.73.5



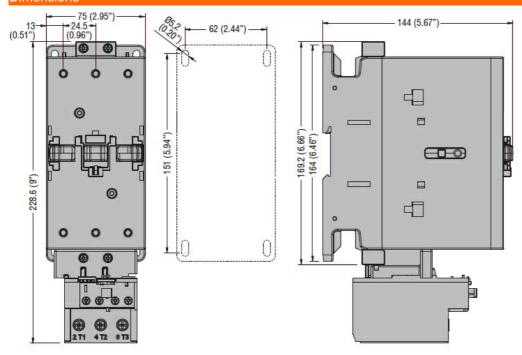
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			holding	VA	1.73.5
Dissipation at holding	≤20°C 50Hz			W	1.31,5
DC coil operating					
DC rated control voltage	ge				
			min	V	20
			max	V	48
DC operating voltage	.5.1				
	pick-up		min	%Us	80 Us min
			max	%Us	110 Us max
	drop-out		Пах	7000	110 Co max
			max	%Us	≤70 Us min
Average coil consump	tion ≤20°C				
			in-rush	W	7080
			holding	W	1.31.5
Max cycles frequency					
Mechanical operation				cycles/h	1500
Operating times	ontrol				
Average time for Us co	in AC				
	III AC	Closing NO			
		Olosing NO	min	ms	45
			max	ms	90
		Opening NO			
			min	ms	24
			max	ms	60
UL technical data					
Yielded mechanical pe		•			
	for three-phase AC mo	otor	200/208V	HP	40
			200/208V 220/230V	HP	40
			460/480V	HP	75
			575/600V	HP	100
General USE					
	Contactor				
			AC current	Α	165
Short-circuit protection					
	High fault				
			Short circuit current	kA	100
			Fuse rating	Α	200
	Standard fault		Fuse class		J
	Januaru rault		Short circuit current	kA	10
			Fuse rating	A	250
			Fuse class		RK5
Ambient conditions					
Temperature					
	Operating temperature				
			min	°C	-50
	01		max	°C	70
	Storage temperature		٠٠.	°C	60
			min max	°C	-60 +80
Max altitude			illax	m	3000
ויומא מווונטטט				111	5000

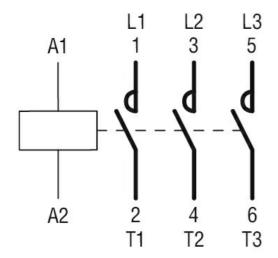
ENERGY AND AUTOMATION

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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

IEC/EN/BS 60947-4-1

UL 60947-1

UL 60947-4-1

Certificates

CCC

cULus

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching