



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		A	160
Operational current le			
	AC-1 (≤40°C)	A	160
	AC-1 (≤55°C)	A	130
	AC-1 (≤70°C)	A	115
	AC-3 (≤440V ≤55°C)	A	115
	AC-4 (400V)	A	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)	0001/		
	230V	A	115
	400V	A	115
	415V	A	115
	440V	A	115
	500V	A	106
	690V	A	106
	1000V	A	39
IEC max current le in DC1 with $L/R \le 1$ ms with 1 poles in series			
	≤24V	A	160
	48V	A	160
	75V	A	120
	110V	A	10
	220V	A	_
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			100
	≤24V	A	160
	48V	A	160
	75V	A	160
	110V	A	130
	220V	Α	14

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

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BF11500E230 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 115A, AC/DC COIL, 100...250VAC/DC

	≤24V	А	160
	48V	А	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
	75V	A	160
	110V	A	160
	220V	A	160
IEC max current le in DC3-DC5 with L/R \leq 15ms with 1 poles in series	2201		100
	≤24V	А	160
	48V	A	50
	48V 75V	A	40
	110V		
		A	6
	220V	A	_
IEC max current le in DC3-DC5 with L/R \leq 15ms with 2 poles in series			100
	≤24V	А	160
	48V	А	72
	75V	А	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	А	160
	48V	А	150
	75V	А	100
	110V	А	100
	220V	А	92
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	А	160
	48V	А	120
	75V	А	120
	110V	А	125
	220V	А	115
Short-time allowable current for 10s (IEC/EN60947-1)		А	920
Protection fuse			
	gG (IEC)	А	200
	aM (IEC)	A	125
Making capacity (RMS value)		A	1500
Breaking capacity at voltage		~	1000
breaking capacity at voltage	440V	А	1200
	500V	A	850
	690V	A	905
Resistance per pole (average value)		mΩ	0.45
Power dissipation per pole (average value)			
	Ith	W	11.5
	AC-3	W	6.0
Tightening torque for terminals			
	min	Nm	6
	max	Nm	7
	min	Ibin	4.4
	max	lbin	5.2

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Electric ENERGY AND AUTOMATION	THREE-POLE CONTACTOR, IEC OPER	ATING CURRENT IE ((AC3) = 1	15A, AC/DC COIL, 100250VAC/DC
Tightening torque for	coil terminal			
		min	Nm	0.8
		max	Nm	1
		min	Ibin	0.59
		max	Ibin	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 protect	ction according to IEC/EN 60529			IP20 front
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
				Screw / DIN rail
Fixing				35mm
Weight			g	2060
Conductor section			0	
	AWG/kcmil conductor section			
		max		2/0
Operations				_, •
Mechanical life			cycles	15000000
Electrical life			cycles	1200000
AC coil operating			0,0100	.200000
Rated AC voltage at 5	50/60Hz 60Hz			
Nated AC voltage at t		min	V	100
		max	v	250

		11111	v	100
		max	V	250
AC operating voltage)			
	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out			-
		max	%Us	≤70 Us min
	of 50/60Hz coil powered at 60Hz			
	pick-up			
	EE	min	%Us	80 Us min
		max	%Us	110 Us max
	drop-out		,	
		max	%Us	≤70 Us min
AC average coil cons	sumption at 20°C			
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	70175
		holding	VA	1.73.5
	of 50/60Hz coil powered at 60Hz	lioiding	•/ •	
		in-rush	VA	70175
		holding	VA	1.73.5
	of 60Hz coil powered at 60Hz	noiding	٧٨	1.7
	of 60Hz coil powered at 60Hz	in ruch	1/0	70 175
		in-rush	VA	70175

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THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 115A, AC/DC COIL, 100...250VAC/DC

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			holding	VA	1.73.5
Dissipation at holding ≤	≤20°C 50Hz		Holding	W	1.31,5
DC coil operating					- ,-
DC rated control voltag	je				
			min	V	100
			max	V	250
DC operating voltage					
	pick-up				
			min	%Us	80 Us min
			max	%Us	110 Us max
	drop-out				
			max	%Us	≤70 Us min
Average coil consumpt	tion ≤20°C				
			in-rush	W	7080
			holding	W	1.31.5
Max cycles frequency					
Mechanical operation				cycles/h	1500
Operating times					
Average time for Us co	ontrol				
	in AC				
		Closing NO			
			min	ms	45
			max	ms	90
		Opening NO			
			min	ms	24
			max	ms	60
JL technical data					
Yielded mechanical pe	rformance				
	for three-phase AC mo	tor			
			200/208V	HP	40
			220/230V	HP	40
			460/480V	HP	75
			460/480V 575/600V		75 100
General USE				HP	
General USE	Contactor			HP	
General USE	Contactor			HP	
			575/600V	HP HP	100
			575/600V	HP HP	100
	fuse, 600V		575/600V	HP HP	100
	fuse, 600V		575/600V AC current Short circuit current Fuse rating	HP HP	100
	fuse, 600V		575/600V AC current Short circuit current	HP HP A	100 165 100
	fuse, 600V		575/600V AC current Short circuit current Fuse rating	HP HP A	100 165 100 200
	fuse, 600V High fault		575/600V AC current Short circuit current Fuse rating	HP HP A	100 165 100 200
	fuse, 600V High fault		575/600V AC current Short circuit current Fuse rating Fuse class	HP HP A kA A	100 165 100 200 J
	fuse, 600V High fault		575/600V AC current Short circuit current Fuse rating Fuse class Short circuit current	HP HP A kA A	100 165 100 200 J 10
Short-circuit protection	fuse, 600V High fault		575/600V AC current Short circuit current Fuse rating Fuse class Short circuit current Fuse rating	HP HP A kA A	100 165 100 200 J 10 250
Short-circuit protection	fuse, 600V High fault		575/600V AC current Short circuit current Fuse rating Fuse class Short circuit current Fuse rating	HP HP A kA A	100 165 100 200 J 10 250
Short-circuit protection	fuse, 600V High fault		575/600V AC current Short circuit current Fuse rating Fuse class Short circuit current Fuse rating	HP HP A kA A	100 165 100 200 J 10 250
Short-circuit protection	fuse, 600V High fault Standard fault		575/600V AC current Short circuit current Fuse rating Fuse class Short circuit current Fuse rating	HP HP A kA A	100 165 100 200 J 10 250
Short-circuit protection	fuse, 600V High fault Standard fault		AC current AC current Short circuit current Fuse rating Fuse class Short circuit current Fuse rating Fuse class	HP HP A kA A kA	100 165 100 200 J 10 250 RK5
Short-circuit protection	fuse, 600V High fault Standard fault		Short circuit current Fuse rating Fuse class Short circuit current Fuse rating Fuse class min	HP HP A kA A kA A	100 165 100 200 J 10 250 RK5 -50
Short-circuit protection	fuse, 600V High fault Standard fault Operating temperature		Short circuit current Fuse rating Fuse class Short circuit current Fuse rating Fuse class min	HP HP A kA A kA A	100 165 100 200 J 10 250 RK5 -50
General USE Short-circuit protection Ambient conditions Femperature	fuse, 600V High fault Standard fault Operating temperature		Short circuit current Fuse rating Fuse class Short circuit current Fuse rating Fuse class min max	HP HP A kA A kA A	100 165 100 200 J 10 250 RK5 -50 70

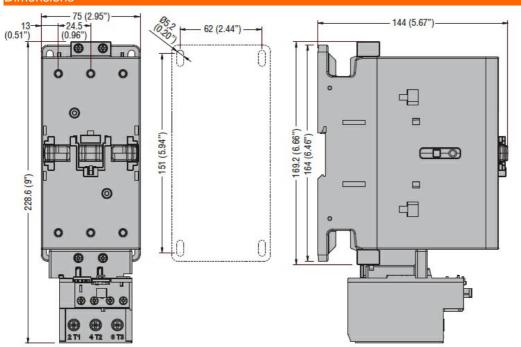
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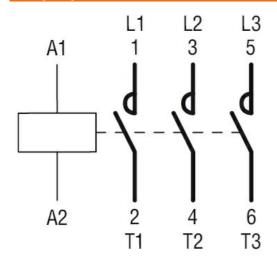


ENERGY AND AUTOMATION

Dimensions



Wiring diagrams



Certifications and compliance

Certifications and con	npliance	
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