



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 $L/R \le 1$ ms 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 ≤ 1ms 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 ≤ 1ms with 3 poles in series



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	≤24V	А	160
	48V	А	160
	75V	А	160
	110V	А	140
	220V	А	145
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series			
	≤24V	А	160
	48V	А	160
	75V	А	160
	110V	А	160
	220V	Α	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	Α	_
IEC max current le in DC3-DC5 with L/R \leq 15ms with 2 poles in series			
	≤24V	А	160
	48V	А	72
	75V	А	65
	110V	А	65
	220V	А	7
IEC max current le in DC3-DC5 with L/R \leq 15ms with 3 poles in series			
	≤24V	A	160
	48V	А	150
	75V	A	100
	110V	A	100
	220V	A	92
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 4 poles in series	<0.011	٨	400
	≤24V	A	160
	48V 75V	A A	120
	110V		120
	220V	A	125 115
Short-time allowable current for 10s (IEC/EN60947-1)	2200	A A	920
		A	920
Protection fuse		۸	200
	gG (IEC)	A	200 125
Making capacity (RMS value)	aM (IEC)	A A	1500
Breaking capacity at voltage		A	1000
broaking capacity at voltage	440V	А	1200
	440V 500V	A	850
	690V	A	905
Resistance per pole (average value)	030 V	 mΩ	0.45
Power dissipation per pole (average value)		11152	0.40
i one assipation per pole (average value)	lth	W	11.5
	AC-3	W	6.0
Tightening torque for terminals	70-0	vv	0.0
	min	Nm	6
	max	Nm	7
	min	Ibin	4.4
		Ibin	4.4 5.2
	max		0.2

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Tightening torque for a	coil terminal			
		min	Nm	0.8
		max	Nm	1
		min	lbin	0.59
		max	Ibin	0.74
Conductor section		Пах	10111	0.1.1
	AWG/Kcmil			
	AWG/KCIIII			2/0
		max		2/0
	Flexible w/o lug conductor section		2	
		min	mm²	1.5
		max	mm²	70
	Flexible c/w lug conductor section			
		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°
		allowable		
Fixing				Screw / DIN rai
				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	400
AC operating voltage				
······································	of 50/60Hz coil powered at 50Hz			
	pick-up			
	ρισκ-αρ	min	%Us	80
		min		
	• • • • •	max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	85
		max	%Us	110
	drop-out	max		
		min	%Us	40
			%Us	40 55
	umption at 20°C	max	/005	55
AC average coil consi	•			
	of 50/60Hz coil powered at 50Hz			
		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	noiding	v/ \	
	or our iz con powered at ouriz	in-rush	VA	300

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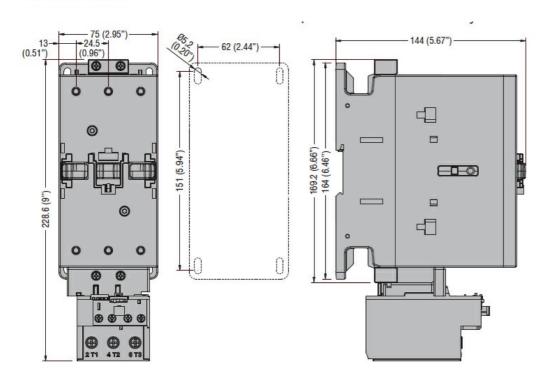
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holding VA 20 Max cycles frequency Mechanical operation cycles/h 1500 Operating times Average time for Us control in AC **Closing NO** 16 min ms 32 max ms **Opening NO** 9 min ms 24 max ms UL technical data Yielded mechanical performance for three-phase AC motor 200/208V HP 40 220/230V HP 40 460/480V ΗP 75 575/600V HP 100 General USE Contactor AC current А 165 Short-circuit protection fuse, 600V High fault Short circuit current kΑ 100 Fuse rating А 200 Fuse class J Standard fault Short circuit current kΑ 10 Fuse rating А 250 Fuse class RK5 Ambient conditions Temperature Operating temperature min °C -50 °C 70 max Storage temperature °C -60 min °C max +80 Max altitude 3000 m Dimensions

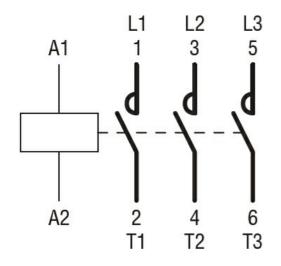
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Wiring diagrams



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