

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



Product designation Power contactor Product type designation BF115

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		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

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



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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	Α	160
	110V	Α	160
	220V	Α	160
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	Α	160
	48V	Α	50
	75V	Α	40
	110V	Α	6
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	Α	160
	48V	Α	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	A	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	A	115
Short-time allowable current for 10s (IEC/EN60947-1)		Α	920
Protection fuse	- //- a\	_	
	gG (IEC)	A	200
M 1: " (DMO 1 )	aM (IEC)	Α	125
Making capacity (RMS value)		Α	1500
Breaking capacity at voltage	4.40\/		4000
	440V	A	1200
	500V	A	850
Posintones per pela (average value)	690V	A mO	905
Resistance per pole (average value)		mΩ	0.45
Power dissipation per pole (average value)	ITI	14/	11 5
	Ith	W	11.5
Tightoning targue for terminals	AC-3	W	6.0
Tightening torque for terminals	min	Nlm	6
	min	Nm Nm	6 7
	max	Nm Ibin	
	min	Ibin	4.4 5.2
	max	וווווו	J.Z

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Tightening torque for o	coil terminal			
3 ** 3 ** 1** * *		min	Nm	0.8
		max	Nm	1
		min	lbin	0.59
		max	Ibin	0.74
Conductor section				
Conductor Coction	AWG/Kcmil			
	7 ( V C / T	max		2/0
	Flexible w/o lug conductor section	THOX		2,0
	Tiexible W/e lag conductor coolen	min	mm²	1.5
		max	mm²	70
	Flexible c/w lug conductor section	Пих		10
	rickible 6/W lag conductor section	min	mm²	1.5
		max	mm²	70
Power terminal protec	tion according to IEC/EN 60529	Παλ	111111	IP20 front
Mechanical features	tion according to IEC/EN 60329			IP20 IIOIIL
Operating position		ا معسم م		Vertical plan
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	2020
Operations				
Mechanical life			cycles	15000000
Electrical life			cycles	1200000
Safety related data				
Performance level B1	0d according to EN/ISO 13489-1			
		rated load	cycles	1200000
		mechanical load	cycles	15000000
AC coil operating				
Rated AC voltage at 5	0/60Hz		V	24
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	80
		min max	%Us %Us	80 110
	drop-out			
	drop-out	max	%Us	110
	drop-out	max min	%Us %Us	110 20
		max	%Us	110
	of 50/60Hz coil powered at 60Hz	max min	%Us %Us	110 20
		max min max	%Us %Us %Us	110 20 55
	of 50/60Hz coil powered at 60Hz	max min max min	%Us %Us %Us	110 20 55 85
	of 50/60Hz coil powered at 60Hz pick-up	max min max	%Us %Us %Us	110 20 55
	of 50/60Hz coil powered at 60Hz	max min max min max	%Us %Us %Us %Us	110 20 55 85 110
	of 50/60Hz coil powered at 60Hz pick-up	max min max min max min max min	%Us %Us %Us %Us %Us	110 20 55 85 110 40
AC average coil cons	of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max min max	%Us %Us %Us %Us	110 20 55 85 110
AC average coil const	of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max min max min max min	%Us %Us %Us %Us %Us	110 20 55 85 110 40
AC average coil consu	of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max min max min max min max	%Us %Us %Us %Us %Us %Us	110 20 55 85 110 40 55
AC average coil consu	of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max min max min max min max	%Us %Us %Us %Us %Us %Us %Us	110 20 55 85 110 40 55
AC average coil consu	of 50/60Hz coil powered at 60Hz pick-up  drop-out  umption at 20°C of 50/60Hz coil powered at 50Hz	max min max min max min max min max	%Us %Us %Us %Us %Us %Us	110 20 55 85 110 40 55
AC average coil consu	of 50/60Hz coil powered at 60Hz pick-up drop-out	min max min max min max min max in-rush holding	%Us	110 20 55 85 110 40 55
AC average coil consu	of 50/60Hz coil powered at 60Hz pick-up  drop-out  umption at 20°C of 50/60Hz coil powered at 50Hz	min max min max min max min max in-rush holding in-rush	%Us	110 20 55 85 110 40 55 300 20 275
AC average coil consu	of 50/60Hz coil powered at 60Hz pick-up  drop-out  umption at 20°C of 50/60Hz coil powered at 50Hz	min max min max min max min max in-rush holding	%Us	110 20 55 85 110 40 55





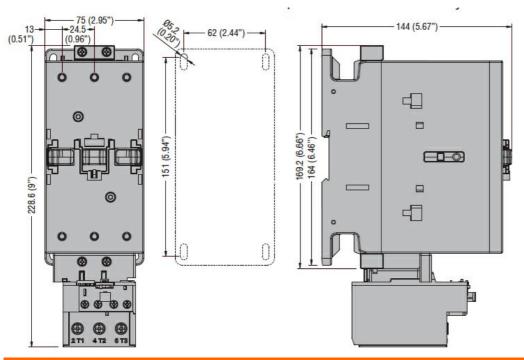
## THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 115A, AC COIL 50/60HZ,

			in-rush	VA	300
Max cycles frequency			holding	VA	20
Mechanical operation				cycles/h	1500
Operating times				ey electri	1000
Average time for Us co	ntrol				
	in AC				
		Closing NO			
			min	ms	16
		Opening NO	max	ms	32
		Opening NO	min	ms	9
			max	ms	24
UL technical data					
Rated operational volta	ge AC (UL)			V	600
Yielded mechanical per					
	for three-phase AC mo	otor			
			200/208V	HP	40
			220/230V 460/480V	HP HP	40 75
			575/600V	HP	100
General USE			010,000 1		100
	Contactor				
			AC current	Α	165
Short-circuit protection					
	High fault				
			Short circuit current	kA	100
			Fuse rating Fuse class	Α	200 J
	Standard fault		ruse class		J
	Canada adit		Short circuit current	kA	10
			Fuse rating	Α	250
			Fuse class		RK5
Ambient conditions					
Temperature					
	Operating temperature		p. t.	°C	50
			min max	°C	-50 70
	Storage temperature		IIIdX		10
	C.orago tomporataro		min	°C	-60
			max	°C	+80
Max altitude				m	3000
Dimensions					

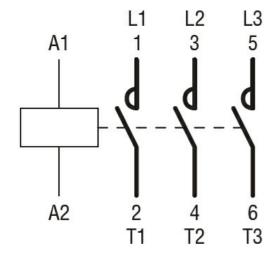
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#### THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 115A, AC COIL 50/60HZ,



#### 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