

# THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 115A, AC COIL 60HZ, 460VAC



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
150	1000V	Α	39
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series	-0.43.4		
	≤24V	A	160
	48V	A	160
	75V	A	120
	110V	A	10
IFC may augreent to in DC4 with 1/D < 4 with 2 males in series	220V	A	
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	-041	۸	160
	≤24V	A	160
	48V	A	160
	75V	A	160
	110V 220V	A	130
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	ZZUV	A	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	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			
	440V	Α	1200
	500V	Α	850
	690V	Α	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	lbin	4.4
	max	lbin	5.2



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Tightening torque for o	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 protec	ction according to IEC/EN 60529			IP20 front
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Finder.				Screw / DIN rail
Fixing				35mm
Weight			g	2020
Conductor section				
	AWG/kcmil conductor section			
		max		2/0
Operations				_, 0
Mechanical life			cycles	15000000
Electrical life			cycles	1200000
AC coil operating				
Rated AC voltage at 6	i0Hz		V	460
AC operating voltage				
1 5 5 -	of 60Hz coil powered at 60Hz			
	pick-up			
	p13 up	min	%Us	80
		max	%Us	110
	drop-out		,,,,	
		min	%Us	20
		min max	%Us %Us	20 55
AC average coil consi		min max	%Us %Us	20 55
AC average coil consu	umption at 20°C			
AC average coil consu		max	%Us	55
AC average coil consi	umption at 20°C	max in-rush	%Us VA	300
-	umption at 20°C of 60Hz coil powered at 60Hz	max	%Us	55
Max cycles frequency	umption at 20°C of 60Hz coil powered at 60Hz	max in-rush	%Us VA VA	300 20
Max cycles frequency Mechanical operation	umption at 20°C of 60Hz coil powered at 60Hz	max in-rush	%Us VA	300 20
Max cycles frequency Mechanical operation Operating times	umption at 20°C of 60Hz coil powered at 60Hz	max in-rush	%Us VA VA	300 20
Max cycles frequency Mechanical operation Operating times	umption at 20°C of 60Hz coil powered at 60Hz ontrol	max in-rush	%Us VA VA	300 20
Max cycles frequency Mechanical operation Operating times	umption at 20°C of 60Hz coil powered at 60Hz  ontrol in AC	max in-rush	%Us VA VA	300 20
Max cycles frequency Mechanical operation Operating times	umption at 20°C of 60Hz coil powered at 60Hz ontrol	in-rush holding	%Us VA VA cycles/h	300 20 1500
Max cycles frequency Mechanical operation Operating times	umption at 20°C of 60Hz coil powered at 60Hz  ontrol in AC	in-rush holding min	%Us  VA  VA  cycles/h  ms	300 20 1500
Max cycles frequency Mechanical operation Operating times	umption at 20°C of 60Hz coil powered at 60Hz  ontrol in AC Closing NO	in-rush holding	%Us VA VA cycles/h	300 20 1500
AC average coil consumate Max cycles frequency Mechanical operation Operating times Average time for Us of	umption at 20°C of 60Hz coil powered at 60Hz  ontrol in AC	in-rush holding min max	%Us  VA  VA  cycles/h  ms  ms	300 20 1500
Max cycles frequency Mechanical operation Operating times	umption at 20°C of 60Hz coil powered at 60Hz  ontrol in AC Closing NO	in-rush holding min	%Us  VA  VA  cycles/h  ms	300 20 1500

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

200/208V

AC current

HP

40

165

### Yielded mechanical performance

for three-phase AC motor

	220/230V	HP	40
	460/480V	HP	75
	575/600V	HP	100
Contactor			

## General USE

Short-circuit protection fuse, 600V	,
High fault	

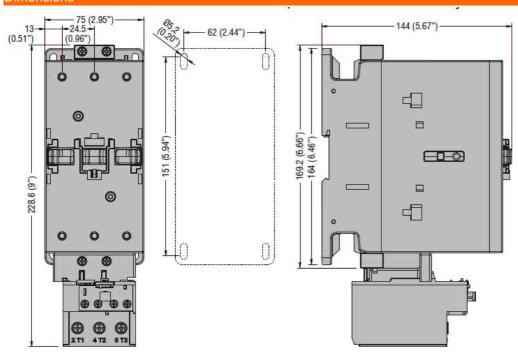
	Short circuit current	kA	100	
	Fuse rating	Α	200	
	Fuse class		J	
Standard fault				
	Chart aireuit arreat	LΔ	40	
	Short circuit current	kA	10	
	Fuse rating	KA A	250	

#### Ambient conditions

## Temperature

remperature					
-	Operating temperature				
		min	°C	-50	
		max	°C	70	
	Storage temperature				
		min	°C	-60	
		max	°C	+80	
Max altitude			m	3000	

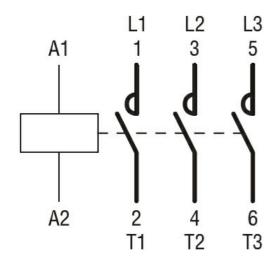
## Dimensions



### Wiring diagrams

**ENERGY AND AUTOMATION** 

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



## 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