



Product designation	Power contactor		
Product type designation	BFK115		
<b>Contact characteristics</b>			
Number of poles	nr.	3	
Rated insulation voltage $U_i$ IEC/EN	V	1000	
Rated impulse withstand voltage $U_{imp}$	kV	8	
Operational frequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current $I_{th}$	A	160	
Operational current $I_e$	AC-3 ( $\leq 440V \leq 55^\circ C$ )	A	115
	AC-4 (400V)	A	54
Rated operational power AC-6b ( $T \leq 40^\circ C$ )	230V	kvar	45
	400V	kvar	75
	500V	kvar	85
	690V	kvar	135
Short-time allowable current for 10s (IEC/EN60947-1)	A	920	
Protection fuse	gG (IEC)	A	200
	aM (IEC)	A	125
Making capacity (RMS value)	A	1500	
Breaking capacity at voltage	440V	A	1200
	500V	A	850
	690V	A	905
Resistance per pole (average value)	m $\Omega$	0.45	
Power dissipation per pole (average value)	$I_{th}$	W	11.5
	AC3	W	6.0
Tightening torque for terminals	min	Nm	6
	max	Nm	7
	min	lbin	4.4
	max	lbin	5.2
Tightening torque for coil terminal	min	Nm	0.8
	max	Nm	1
	min	lbft	0.59
	max	lbft	0.74
Conductor section	Flexible w/o lug conductor section		
	min	mm <sup>2</sup>	1.5
	max	mm <sup>2</sup>	70

Flexible c/w lug conductor section

min	mm <sup>2</sup>	1.5
max	mm <sup>2</sup>	70

Power terminal protection according to IEC/EN 60529

IP20 front

**Mechanical features**

Operating position

normal allowable	vertical plan ±30°
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Fixing

Screw / DIN rail 35mm

Weight

g 2095

**Operations**

Mechanical life

cycles 15000000

Electrical life

cycles 1200000

**AC coil operating**

Rated AC voltage at 50/60Hz, 60Hz

min	V	12
max	V	600

AC operating voltage

of 50/60Hz coil powered at 50Hz pick-up

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

min %Us 40  
max %Us 55

**Max cycles frequency**

Mechanical operations

cycles/h 1500

**Operating times**

Average time for Us control

in AC

Closing NO

min ms 16  
max ms 32

Opening NO

min ms 9  
max ms 24

**Ambient conditions**

Temperature

Operating temperature

min °C -50  
max °C 70

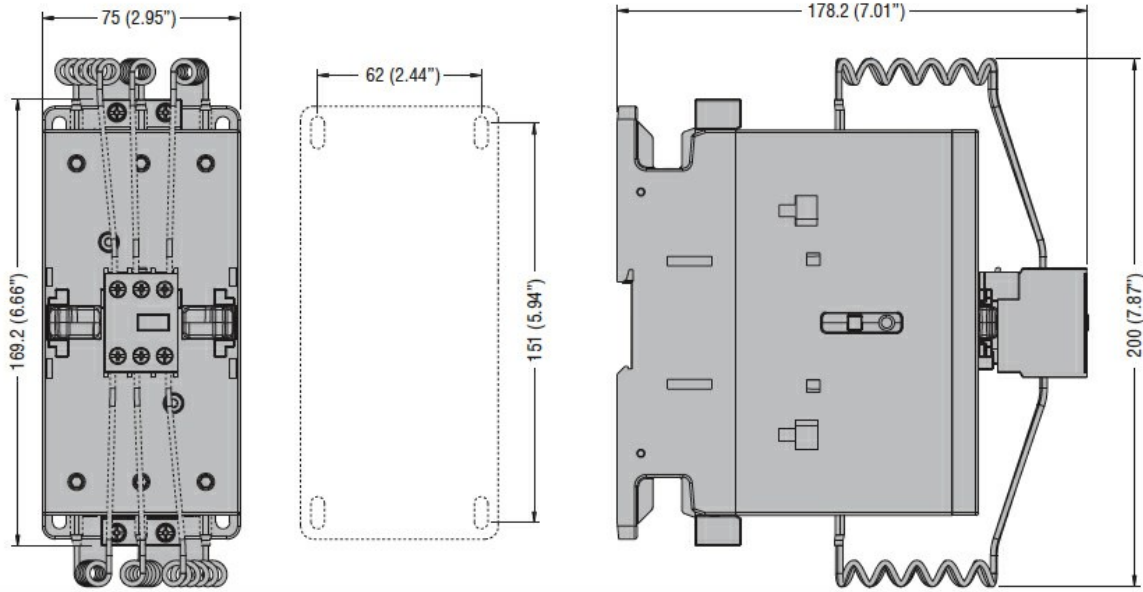
Storage temperature

min °C -60  
max °C +80

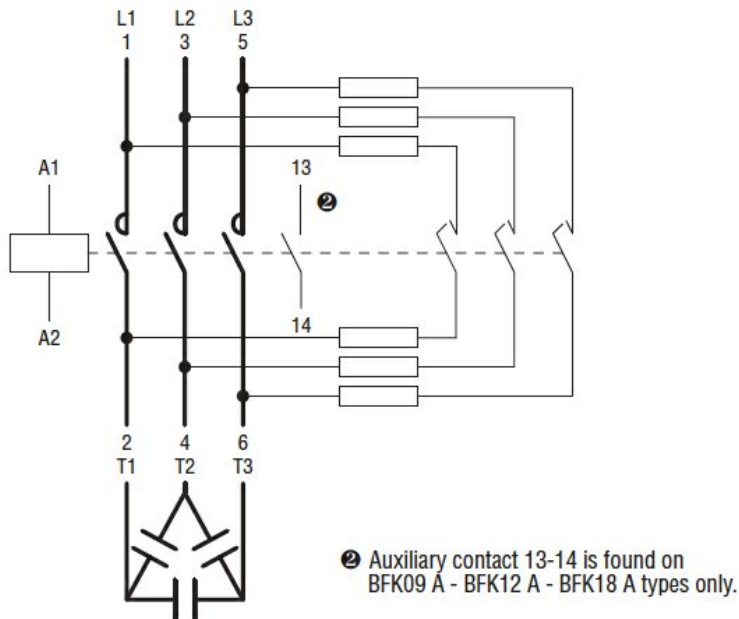
Max altitude

m 3000

**Dimensions**



### Wiring diagrams



### Certifications and compliance

#### Compliance

CSA C22.2 n° 60947-1  
 CSA C22.2 n° 60947-4-1  
 IEC/EN 60947-1  
 IEC/EN 60947-4-1  
 UL 60947-1  
 UL 60947-4-1

#### Certificates

CCC  
 cULus

### ETIM 6 classification

EC000066 - Power contactor, AC switching