



Product designation  
Product type designation

Power contactor  
BFK115

**Contact characteristics**

Number of poles	Nr.	3
Rated insulation voltage $U_i$ IEC/EN	V	690
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
Rated operational power AC-6b ( $T \leq 40^\circ C$ )	230V kvar	45
	400V kvar	75
	440...480V kvar	85
	690V kvar	135
Short-time allowable current for 10s (IEC/EN60947-1)	A	920
Protection fuse	gG (IEC)	A 160
Making capacity (RMS value)	A	1500
Breaking capacity at voltage	440V A	1200
	500V A	850
	690V A	905
Resistance per pole (average value)	mΩ	0.45
Power dissipation per pole (average value)	$I_{th}$ W	11.5
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 lbin	0.59
	max lbin	0.74
Max number of wires simultaneously connectable	Nr.	2
Conductor section	AWG/Kcmil	
	max	2/0
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
<b>Mechanical features</b>			
Operating position	normal allowable		Vertical plan ±30°
Fixing			Screw / DIN rail 35mm
Weight		g	2095
Conductor section			
AWG/kcmil conductor section	max		2/0
<b>Operations</b>			
Mechanical life		cycles	15000000
Electrical life		cycles	1200000
<b>Safety related data</b>			
Performance level B10d according to EN/ISO 13489-1			
	rated load	cycles	400000
	mechanical load	cycles	15000000
EMC compatibility			yes
<b>AC coil operating</b>			
Rated AC voltage at 50/60Hz		V	110
AC operating voltage			
of 50/60Hz coil powered at 50Hz			
pick-up	min	%Us	80
	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
AC average coil consumption at 20°C			
of 50/60Hz coil powered at 50Hz	holding	VA	20
of 50/60Hz coil powered at 60Hz	in-rush	VA	300
	holding	VA	17
of 60Hz coil powered at 60Hz	in-rush	VA	300
	holding	VA	20
Dissipation at holding ≤20°C 50Hz		W	6.5
<b>Max cycles frequency</b>			
Mechanical operation		cycles/h	1500
<b>Operating times</b>			
Average time for Us control			
in AC			
Closing NO	min	ms	16

Opening NO

max ms 32

min ms 9

max ms 24

## UL technical data

General USE

Contactor

AC current A 160

## Ambient conditions

Temperature

Operating temperature

min °C -50

max °C 70

Storage temperature

min °C -60

max °C 80

Max altitude

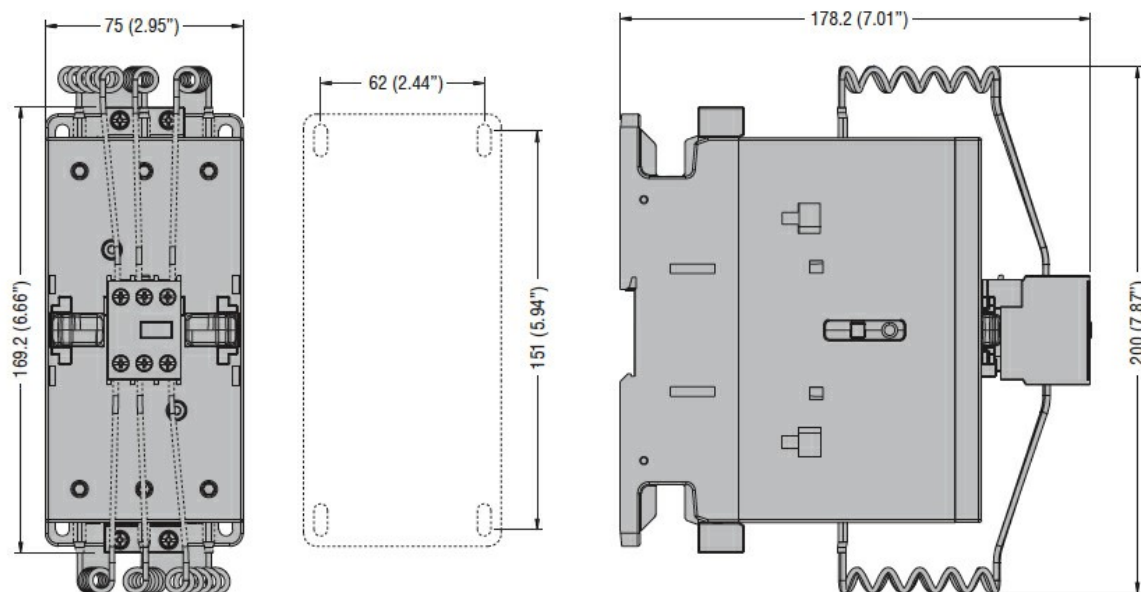
m 3000

## Resistance & Protection

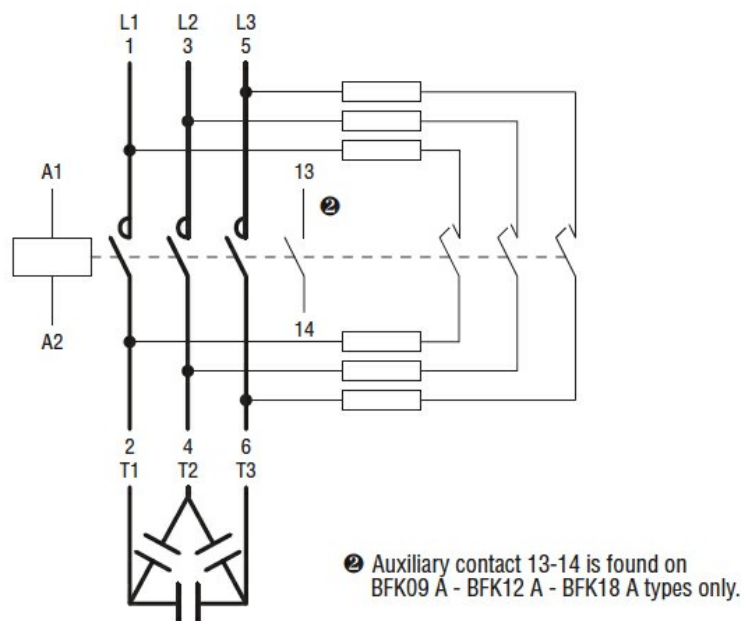
Pollution degree

3

## Dimensions



## 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

EC001079 -  
Capacitor  
contactor