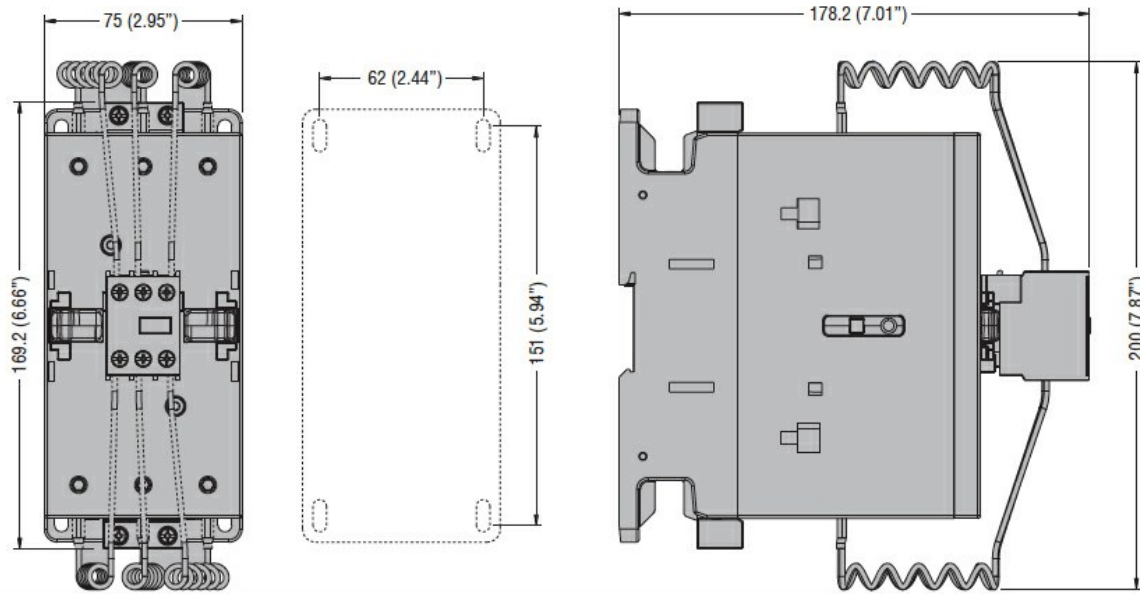




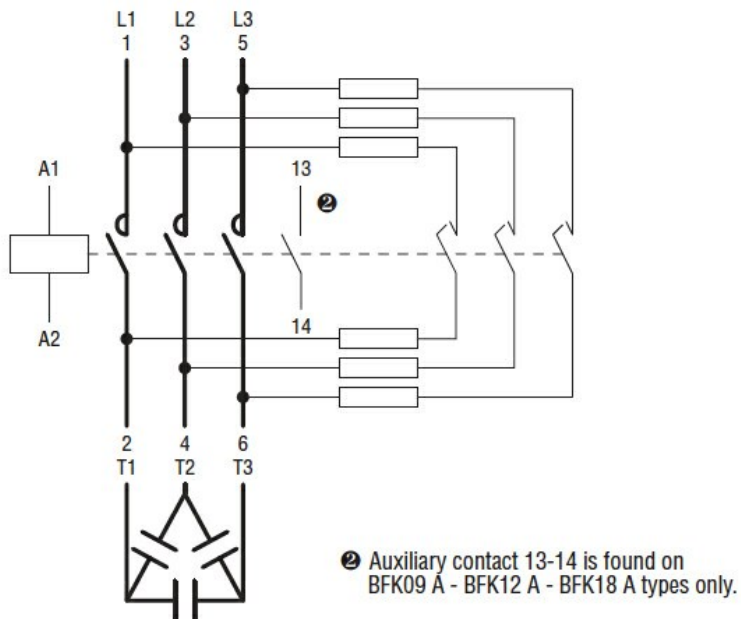
Product designation			Power contactor
Product type designation			BFK115
Contact characteristics			
Number of poles	Nr.	3	
Rated insulation voltage Ui IEC/EN	V	690	
Rated impulse withstand voltage Uimp	kV	8	
Operational frequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	A	160	
Rated operational power AC-6b (T≤40°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
		A	1500
Making capacity (RMS value)			
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)	Ith	W	11.5
Tightening torque for terminals	min	Nm	6
	max	Nm	7
	min	Ibin	4.4
	max	Ibin	5.2
Tightening torque for coil terminal	min	Nm	0.8
	max	Nm	1
	min	Ibin	0.59
	max	Ibin	0.74
Max number of wires simultaneously connectable	Nr.	2	
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 protection according to IEC/EN 60529			
IP20 front			
Mechanical features			
Operating position			
	normal allowable		Vertical plan ±30°
Fixing			
Screw / DIN rail 35mm			
Weight			
		g	2095
Operations			
Mechanical life			
		cycles	15000000
Electrical life			
		cycles	1200000
Safety related data			
Performance level B10d according to EN/ISO 13489-1			
	rated load mechanical load	cycles cycles	1200000 15000000
EMC compatibility			
yes			
AC coil operating			
Rated AC voltage at 60Hz			
		V	575
AC operating voltage			
	of 60Hz coil powered at 60Hz		
	pick-up		
	min	%Us	80
	max	%Us	110
	drop-out		
	min	%Us	20
	max	%Us	55
Max cycles frequency			
Mechanical operation			
		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
UL technical data			
Rated operational voltage AC (UL)			
		V	600
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