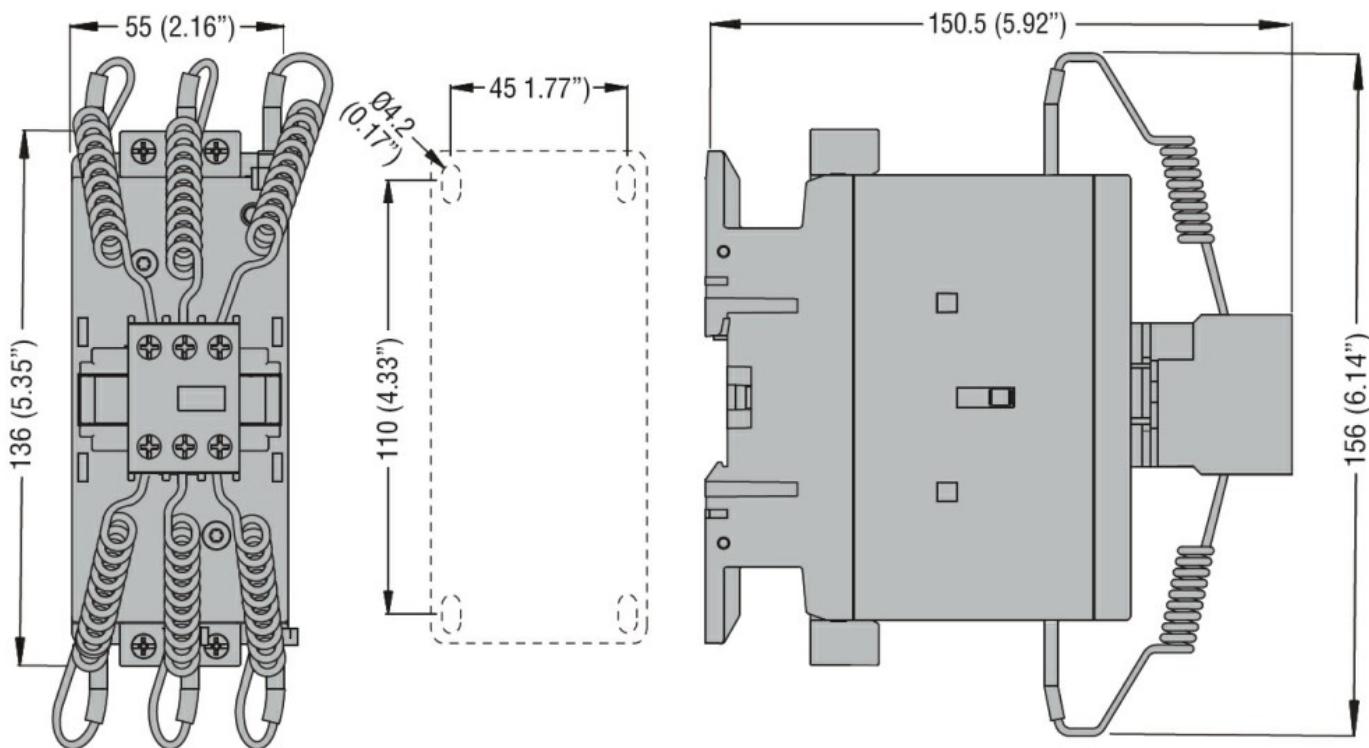




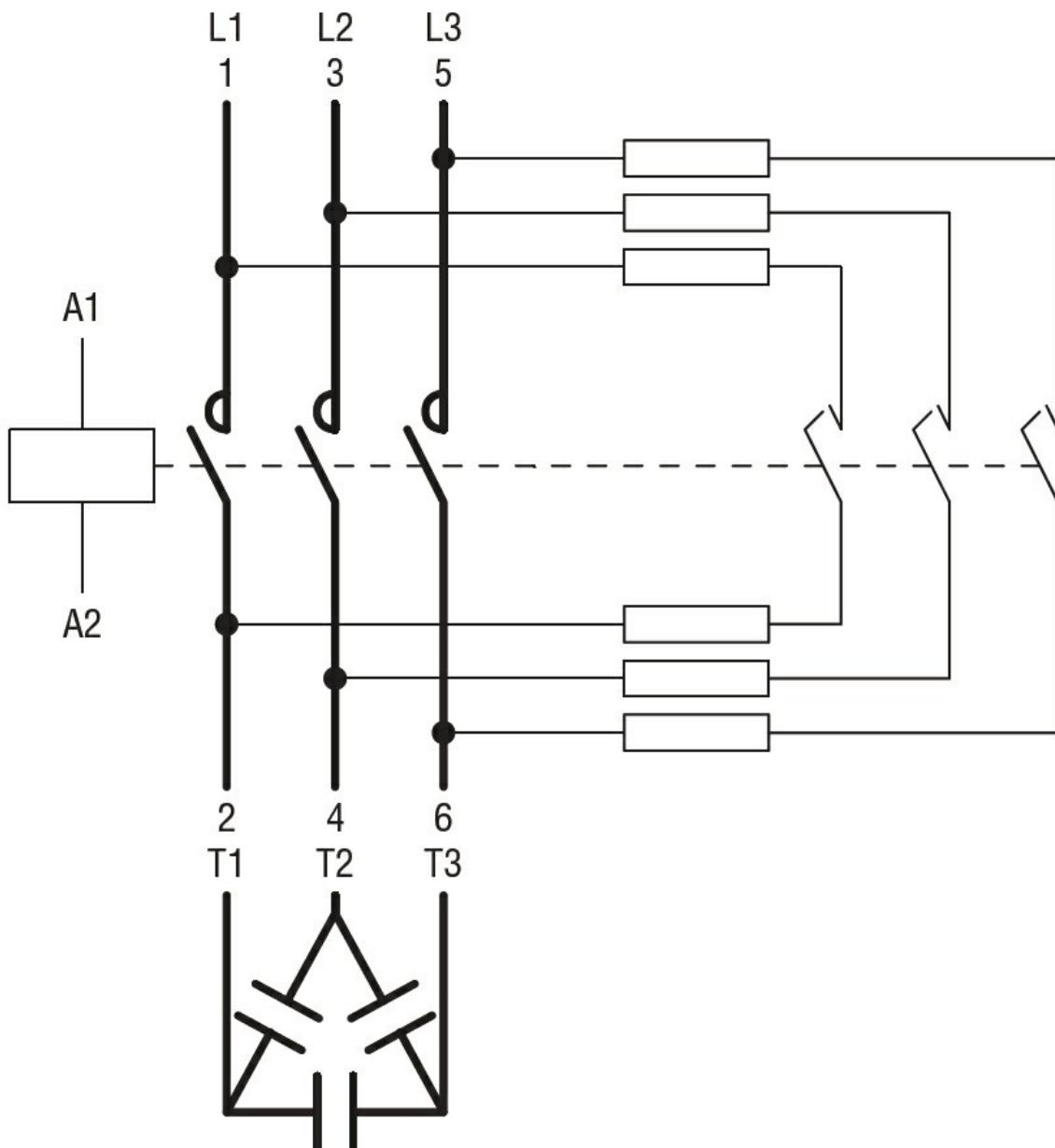
Product designation	Power contactor BFK65		
Product type designation	BFK65		
<b>Contact characteristics</b>			
Number of poles	Nr.	3	
Rated insulation voltage $U_i$ IEC/EN	V	690	
Rated impulse withstand voltage $U_{imp}$	kV	8	
Operational frequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current $I_{th}$		A	100
Rated operational power AC-6b ( $T \leq 40^\circ C$ )	230V	kvar	26
	400V	kvar	45
	440...480V	kvar	50
	690V	kvar	56
Short-time allowable current for 10s (IEC/EN60947-1)		A	640
Protection fuse	gG (IEC)	A	100
Making capacity (RMS value)		A	650
Breaking capacity at voltage	440V	A	520
	500V	A	425
	690V	A	376
Resistance per pole (average value)		$m\Omega$	0.8
Power dissipation per pole (average value)	$I_{th}$	W	8
Tightening torque for terminals	min	Nm	4
	max	Nm	5
	min	$I_{bin}$	2.95
	max	$I_{bin}$	3.69
Tightening torque for coil terminal	min	Nm	0.8
	max	Nm	1
	min	$I_{bin}$	0.8
	max	$I_{bin}$	0.74
Max number of wires simultaneously connectable	Nr.	2	
Conductor section	AWG/Kcmil		
	max		2
Flexible w/o lug conductor section	min	$mm^2$	1.5
	max	$mm^2$	35
Flexible c/w lug conductor section	min	$mm^2$	1.5

	max	mm <sup>2</sup>	35
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	1090	
<b>Operations</b>			
Mechanical life	cycles	15000000	
Electrical life	cycles	400000	
<b>Safety related data</b>			
Performance level B10d according to EN/ISO 13489-1	rated load mechanical load	cycles	400000 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 max	%Us %Us	80 110
drop-out	min max	%Us %Us	20 55
of 50/60Hz coil powered at 60Hz			
pick-up	min max	%Us %Us	85 110
drop-out	min max	%Us %Us	20 55
AC average coil consumption at 20°C			
of 50/60Hz coil powered at 50Hz	in-rush holding	VA VA	210 15
of 50/60Hz coil powered at 60Hz	in-rush holding	VA VA	195 13
of 60Hz coil powered at 60Hz	in-rush holding	VA VA	210 15
Dissipation at holding ≤20°C 50Hz	W	5	
<b>Max cycles frequency</b>			
Mechanical operation	cycles/h	3600	
<b>Operating times</b>			
Average time for Us control			
in AC			
Closing NO	min max	ms ms	12 28
Opening NO			

	min	ms	8
	max	ms	22
in DC			
Closing NO			
min	ms	40	
max	ms	85	
Opening NO			
min	ms	20	
max	ms	55	
UL technical data			
Rated operational voltage AC (UL)		V	600
General USE			
Contactor		AC current	A 100
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