



Product designation			Power contactor
Product type designation			BFK65
Contact characteristics			
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	8
Operational frequency			
oporational modulotoy	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	IIIax	A	100
			100
Rated operational power AC-6b (T≤40°C)	0001/	1	00
	230V	kvar	26
	400V	kvar	45
	440480V	kvar	50
	690V	kvar	56
Short-time allowable current for 10s (IEC/EN60947-1)		Α	640
Protection fuse			
	gG (IEC)	Α	100
Making capacity (RMS value)	3 \ ,	Α	650
Breaking capacity at voltage			
2.00mmg capacity at remage	440V	Α	520
	500V	A	425
	690V	A	376
Resistance per pole (average value)	030 V	mΩ	0.8
Power dissipation per pole (average value)		11122	0.0
Power dissipation per pole (average value)	141-	147	0
	Ith	W	8
Tightening torque for terminals			
	min	Nm	4
	max	Nm	5
	min	lbin	2.95
	max	lbin	3.69
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	0.8
	max	Ibin	0.74
Max number of wires simultaneously connectable	max	Nr.	2
Conductor section		1 111.	
AWG/Kcmil			0
EL 31 / 1	max		2
Flexible w/o lug conductor section		_	
	min	mm²	1.5
	max	mm²	35
Flexible c/w lug conductor section			
	min	mm²	1.5



Power terminal protection according to IEC/EN 60529 IP20 front Mechanical features IP20 front Mechanical features IP20 front		max	mm²	35
Operating position Negrent yield and allowable with 230" and 230	·			IP20 front
Prixing Pri				
Fixing Screw / DIN rail DI	Operating position			
Screw / DIN rail 35mm Weight 9 1090				
Name		allowable		
AWG/kcmil conductor section max 2	Fixing			
AWG/kcmil conductor section max 2	Weight		g	1090
Mechanical life				
Operations Cycles 15000000 Mechanical life cycles 400000 Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 400000 mechanical load cycles 15000000 EMC compatibility yes AC coil operating Rated AC voltage at 60Hz yeick-up min min min wolls 80 AC average coil consumption at 20°C of 60Hz coil powered at 60Hz min min wolls 80 Dissipation at holding ≤20°C 50Hz w 5 Max cycles frequency W 5 Max cycles frequency W 5 Mechanical operation cycles/frequency Cosing NO min min ms 8 22 In DC Closing	AWG/kcmil conductor section			
Mechanical life		max		2
Electrical life	·			
Performance level B10d according to EN/ISO 13489-1 rated load mechanical load vycles 400000 mechanical load vycles 15000000			-	
Performance level B10d according to EN/ISO 13489-1 rated load mechanical load cycles 400000 mechanical load cycles 15000000 mechanical load cycles 15000000 mechanical load cycles 15000000 mechanical load cycles 15000000 mechanical load cycles 15000000 mechanical load cycles mechanical load cycles mechanical load mechanical lo			cycles	400000
Pate Lower Lowe	·			
EMC compatibility yes AC coil operating Rated AC voltage at 60Hz AC operating voltage of 60Hz coil powered at 60Hz pick-up forp-out drop-out min wus state at 60Hz max wus state at 60Hz min wus state at 60Hz of 60Hz coil powered at 60Hz are max wus state at 60Hz AC average coil consumption at 20°C of 60Hz coil powered at 60Hz are max wus state at 60Hz bin-rush vA 210 holding vA 15 Closing NO min wus state at 60Hz are max wus state at 60Hz closing NO min wus state at 60Hz	Performance level B10d according to EN/ISO 13489-1		a a l = =	400000
EMC compatibility yes AC coil operating AC coil operating Rated AC voltage at 60Hz of 60Hz coil powered at 60Hz pick-up min %Us 80 max %Us 110 drop-out min %Us 20 max %Us 55 AC average coil consumption at 20°C of 60Hz coil powered at 60Hz in-rush VA 210 holding VA 15 Dissipation at holding ≤20°C 50Hz Max cycles frequency Mechanical operation operating times Average time for Us control in AC Closing NO min ms 12 max ms 28 Opening NO min ms 8 max ms 22 in DC Closing NO min ms 8 max ms 22 in DC Closing NO min ms 40 max ms 85 Opening NO min ms 40 max ms 85			-	
AC coil operating Rated AC voltage at 60Hz V 575 AC operating voltage min 8/Us 80 max 8/Us 110 a max 9/Us 110 min 8/Us 20 max 9/Us 55 AC average coil consumption at 20°C of 60Hz coil powered at 60Hz in-rush VA 210 holding VA 15 Dissipation at holding ≤20°C 50Hz W 5 Max cycles frequency W 5 Mechanical operation Operating times Cycles/h 3600 Average time for Us control in AC min ms 12 max ms 28 Opening NO min ms 8 max ms 28 Opening NO min ms 8 max ms 22 in DC min ms 40 max ms 85 Opening NO min ms 40 max ms 85 Opening NO min ms 40 max ms 85 Opening NO min ms 40 max ms 85	EMC compatibility	mechanicai ioau	cycles	
Rated AC voltage at 60Hz AC operating voltage of 60Hz coil powered at 60Hz pick-up min max %Us 80 max Morp-out min max %Us 20 max AC average coil consumption at 20°C of 60Hz coil powered at 60Hz in-rush vA 210 holding VA 210 holding Dissipation at holding ≤20°C 50Hz W 5 Max cycles frequency VX 15 Max cycles frequency W 5 Max cycles frequency VX 15 Mechanical operation cycles/h 3600 3600 3600 Operating times Closing NO min ms 12 max 28 Average time for Us control in AC min ms 28 28 Opening NO min ms 8 max 22 in DC min ms 8 max 8 max 8 max Opening NO min ms 40 max 8 max 8 max 8 max 6 max 8 max 6 max 8 max 6 max				y c o
AC operating voltage of 60Hz coil powered at 60Hz pick-up min will 80 max will 110 drop-out min will 20 max will 55 AC average coil consumption at 20°C of 60Hz coil powered at 60Hz in-rush vA 210 holding vA 15 Dissipation at holding ≤20°C 50Hz Max cycles frequency Mechanical operation Cycles/h 3600 Operating times Average time for Us control in AC Closing NO min ms 12 max ms 28 Opening NO min ms 8 max ms 22 in DC Closing NO min ms 8 max ms 22 in DC Closing NO min ms 40 max ms 85 Opening NO min ms 40 max ms 85 Opening NO min ms 40 max ms 85 Opening NO min ms 40 max ms 85 Opening NO min ms 40 max ms 85	·		V	575
of 60Hz coil powered at 60Hz pick-up min wus 80 max wus 110 drop-out min wus 20 max wus 55 AC average coil consumption at 20°C of 60Hz coil powered at 60Hz AC average coil consumption at 20°C of 60Hz coil powered at 60Hz in-rush VA 210 holding VA 15 Dissipation at holding ≤20°C 50Hz Max cycles frequency Mechanical operation Operating times Average time for Us control in AC Closing NO min ms 12 max ms 28 Opening NO min ms 8 max ms 22 in DC Closing NO min ms 8 max ms 22 in DC Closing NO min ms 8 max ms 8 max ms 85 Opening NO min ms 80 max ms 85			•	070
Pick-up min %Us 80 max %Us 110 Min max %Us 110 Min max %Us 55 Max max min max min max m				
Min				
Ac average coil consumption at 20°C Solution Sol	·	min	%Us	80
min max wus 20 max wus 55 AC average coil consumption at 20°C of 60Hz coil powered at 60Hz in-rush vA 210 holding vA 15 Dissipation at holding ≤20°C 50Hz w 5 Max cycles frequency Mechanical operation cycles/h 3600 Operating times Average time for Us control in AC Closing NO min ms 12 max ms 28 Opening NO min ms 8 ms 8 max ms 22 in DC Closing NO min ms 40 max ms 85 Opening NO min ms 40 max ms 85 Opening NO min ms 40 max ms 85 Opening NO		max	%Us	110
Max Mus 55	drop-out			
AC average coil consumption at 20°C of 60Hz coil powered at 60Hz in-rush		min		
of 60Hz coil powered at 60Hz in-rush holding VA 15		max	%Us	55
in-rush VA 210 holding VA 15	·			
Nolding VA 15	of 60Hz coil powered at 60Hz	مامد سامنا	١/٨	240
Dissipation at holding ≤20°C 50Hz W 5				
Max cycles frequency Mechanical operation cycles/h 3600 Operating times Average time for Us control In AC Closing NO min ms 12 max ms 28 Opening NO min ms 8 max ms 22 in DC min ms 40 max ms 85 Opening NO min ms 20 min ms 55	Dissination at holding <20°C 50Hz	Holding		
Nechanical operation Cycles/h 3600	<u> </u>		VV	J
Operating times Average time for Us control in AC Closing NO min ms 12 max ms 28 Opening NO min ms 8 in DC Closing NO min ms 40 max ms 85 Opening NO min ms 20 max ms 55			cvcles/h	3600
Average time for Us control in AC Closing NO min ms 12 max ms 28 Opening NO min ms 8 max ms 22 in DC Closing NO Closing NO min ms 40 max ms 85 Opening NO min ms 40 max ms 85 Opening NO min ms 40 max ms 85				
Closing NO min ms 12 max ms 28 Opening NO min ms 8 max ms 22 in DC Closing NO min ms 40 max ms 85 Opening NO min ms 40 max ms 85 Opening NO min ms 20 max ms 55	•			
Min Ms 12 max ms 28				
Opening NO Max Ms 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		min	ms	
min ms 8 max ms 22 in DC Closing NO min ms 40 max ms 85 Opening NO min ms 20 max ms 55		max	ms	28
max ms 22	Opening NO			
in DC Closing NO min ms 40 max ms 85 Opening NO min ms 20 max ms 55				
Closing NO min ms 40 max ms 85 Opening NO min ms 20 max ms 55		max	ms	22
min ms 40 max ms 85 Opening NO min ms 20 max ms 55				
max ms 85 Opening NO min ms 20 max ms 55	Closing NO	min	me	40
Opening NO min ms 20 max ms 55				
min ms 20 max ms 55	Opening NO	παλ	1113	
max ms 55	Spoiling 140	min	ms	20
OL technical data	UL technical data			

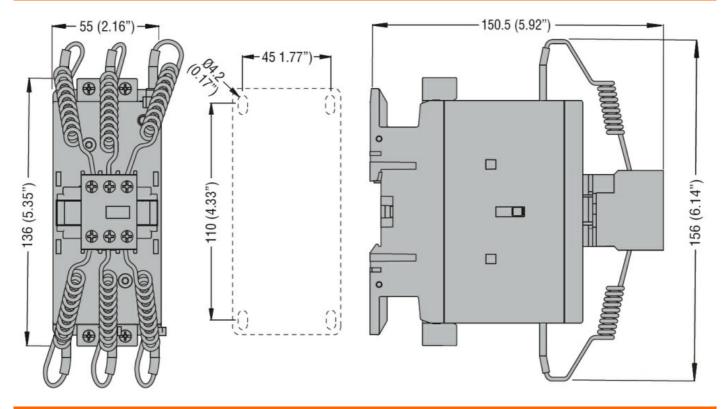




General USE

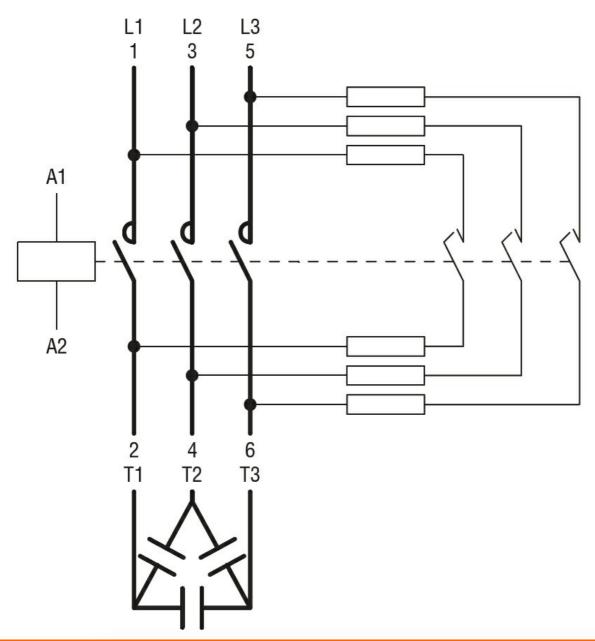
Contactor

		AC current	Α	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 & Protect	ion			
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