



Product designation				Power contactor
Product type designat	ion			BFK65
Contact characteristic	S			
Number of poles			Nr.	3
Rated insulation voltage			V	690
Rated impulse withsta	nd voltage Uimp		kV	8
Operational frequency	1			
		min	Hz	25
		max	Hz	400
IEC Conventional free	air thermal current Ith		Α	100
Rated operational pov	ver AC-6b (T≤40°C)			
		230V	kvar	26
		400V	kvar	45
		440480V	kvar	50
		690V	kvar	56
Short-time allowable of	current for 10s (IEC/EN60947-1)		Α	640
Protection fuse	,			_
		gG (IEC)	Α	100
Making capacity (RMS	S value)	3 - (- /	Α	650
Breaking capacity at v	·			
3 - 1 - 1	9	440V	Α	520
		500V	Α	425
		690V	Α	376
Resistance per pole (a		mΩ	0.8	
Power dissipation per				
	pole (arolage raise)	Ith	W	8
Tightening torque for t	rerminals	101	**	
rigitioning torquo for t	Similar	min	Nm	4
		max	Nm	5
		min	lbin	2.95
		max	lbin	3.69
Tightening torque for o	coil terminal	IIIdx	10111	0.00
riginioning torque for t	Son tominal	min	Nm	0.8
			Nm	1
		max min	lbin	0.8
			Ibin	0.74
Max number of wires	simultaneously connectable	max	Nr.	2
Conductor section	Simultaneously connectable		INI.	
Conductor section	AMC/Komil			
	AWG/Kcmil	may		2
		max		2
	Flexible w/o lug conductor section	!	2	4.5
		min	mm²	1.5
	Flavible abolism and attacked to	max	mm²	35
	Flexible c/w lug conductor section	!	na :=- 2	4 E
		min	mm²	1.5



Necesarional features Section Sectional position Sectional position Sectional position Sectional position Sectional position Sectional positional processional				max	mm²	35
Operating position nommal allowable solution allowable solution allowable solutions. Vertical plan solution allowable solutions. Vertical plan solutions. \$30° Not Not National solutions. \$30° Not Not Not National solutions. \$30° Not Not National solutions. \$30° Not Not Not National solutions. \$30° Not Not Not Not Not National solutions. \$30° Not		ion according to IEC/	EN 60529			IP20 front
Principa Principa						
Fixing Screw / DIN rail 35mm	Operating position					
AWG/kcmil conductor section max 2	Fixing			unowabic		Screw / DIN rail
AWG/kemil conductor section max	Weight				g	1090
Mechanical life	Conductor section					
Mechanical life		AWG/kcmil conduct	or section	max		2
Electrical life cycles 400000 Salety related data Performance level B10d according to EN/ISO 13489-1 rated load mechanical load cycles 400000 yellow 15000000 EMC compatibility AC coil operating Rated AC voltage at 60Hz AC operating voltage of 60Hz coil powered at 60Hz pick-up min %Us 80 max %Us 1110 drop-out min %Us 55 AC average coil consumption at 20°C of 60Hz coil powered at 60Hz Dissipation at holding ≤20°C 50Hz Max cycles frequency Mechanical operation	Operations					
Performance level B10d according to EN/ISO 13489-1 rated load mechanical load cycles 400000 15000000	Mechanical life				cycles	15000000
Performance level B10d according to EN/ISO 13489-1 rated load mechanical load vycles 400000 mechanical load vycles 400000 mechanical load vycles 400000 mechanical load vycles 400000 mechanical load vycles 4000000 mechanical load vycles 40000000 mechanical load vycles 40000000 mechanical load vycles 40000000 mechanical load vycles 40000000000 mechanical load vycles 400000000000 mechanical load vycles 400000000000000000 mechanical load vycles 4000000000000000000000000000000000000	Electrical life				cycles	400000
Part	•					
EMC compatibility yes AC coil operating Y 48 AC coil operating voltage at 60Hz V 48 AC operating voltage of 60Hz coil powered at 60Hz pick-up min %Us 80 max %Us 110 20 drop-out min %Us 20 20 max %Us 55 55 AC average coil consumption at 20°C of 60Hz coil powered at 60Hz in-rush holding VA 15 210 Dissipation at holding \$20°C 50Hz w 5 Max cycles frequency Wechanical operation cycles/h 6000 Operating times Average time for Us control in AC Closing NO min max max ms 28 Opening NO min ms 8 in DC Closing NO min ms 40 max ms 55	Performance level B10	d according to EN/IS	O 13489-1			
EMC compatibility yes C coil operating AC coil operating Rated AC voltage at 60Hz of 60Hz coil powered at 60Hz pick-up min					-	
AC coil operating Rated AC voltage at 60Hz V 48 AC operating voltage min %Us 80 max %Us 110 min %Us 20 max %Us 55 AC average coil consumption at 20°C of 60Hz coil powered at 60Hz min wull 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 cycles/h 3600 Operating times Average time for Us control in AC min ms 12 max ms 28 Opening NO min ms 8 ms 28 Opening NO min ms 8 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				mechanical load	cycles	
Rated AC voltage at 60Hz AC operating voltage of 60Hz coil powered at 60Hz pick-up min max wus wus 110 drop-out min wus						yes
AC operating voltage of 60Hz coil powered at 60Hz pick-up min %Us 80 max %Us 110 drop-out min %Us 20 max 76Us 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 40 max ms 85 Opening NO min ms 40 max ms 85		N. I.—			\ /	40
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 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		JHZ			V	48
Pick-up min wUs 80 max wUs 110 with max wUs 110 with max wUs 110 with max wUs 55 with max wUs 5 with max wUs wU	AC operating voltage	of 60Hz coil nowere	d at 60∐ -			
Min		or dornz con powere				
Max WUs 110 Min Mus 20 Min Mus 55			ріск-ар	min	%Us	80
Ac average coil consumption at 20°C Figure 20°C 20°C 50Hz Figure 20°C 50Hz Figur						
Min Mus 55			drop-out			-
AC average coil consumption at 20°C of 60Hz coil powered at 60Hz in-rush 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 max ms 22 in DC Closing NO min ms 8 max ms 22 TOPENING NO min ms 8 max ms 35 Opening NO min ms 40 max ms 85 Opening NO min ms 20 max ms 55			·	min	%Us	20
of 60Hz coil powered at 60Hz in-rush				max	%Us	55
In-rush VA 210 holding VA 15	AC average coil consu	mption at 20°C				
holding VA 15Dissipation at holding ≤20°C 50HzW 5Max cycles frequencyMechanical operationcycles/h 3600Operating timesAverage time for Us control in ACClosing NOmin ms 12 max ms 28Opening NOmin ms 8 max ms 22in DCmin ms 8 max ms 22Closing NOmin ms 40 max ms 85Opening NOmin ms 40 max ms 85Opening NOmin ms 40 max ms 85Opening NOmin ms 20 max ms 55		of 60Hz coil powere	d at 60Hz			
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 Closing NO min ms 40 max ms 85 Opening NO min ms 20 max ms 55		-0000 5011		holding		
Mechanical operation cycles/h 3600 Operating times Average time for Us control 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 20 max ms 55		\$20°C 50Hz			VV	5
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					ovelee/b	2600
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 40 max ms 85 Opening NO min ms 40 max ms 85 Opening NO min ms 55	-				cycles/n	3600
Closing NO Min Ms 12 max ms 28		entrol				
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 55	. Wordgo tillo loi 03 00					
Min Ms 12 max ms 28		,	Closina NO			
Opening NO min ms 8 max ms 22			· · · -	min	ms	12
min ms 8 max ms 22 in DC Closing NO min ms 40 max ms 85 Opening NO min ms 20 max ms 55						
in DC Closing NO min ms 40 max ms 85 Opening NO min ms 20 max ms 55			Opening NO			
in DC Closing NO min ms 40 max ms 85 Opening NO min ms 20 max ms 55				min	ms	
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		in DC				
max ms 85 Opening NO min ms 20 max ms 55			Closing NO			40
Opening NO min ms 20 max ms 55						
min ms 20 max ms 55			Opening NO	max	ms	85
max ms 55			Opening NO	min	me	20
	UL technical data			IIIdA	1113	

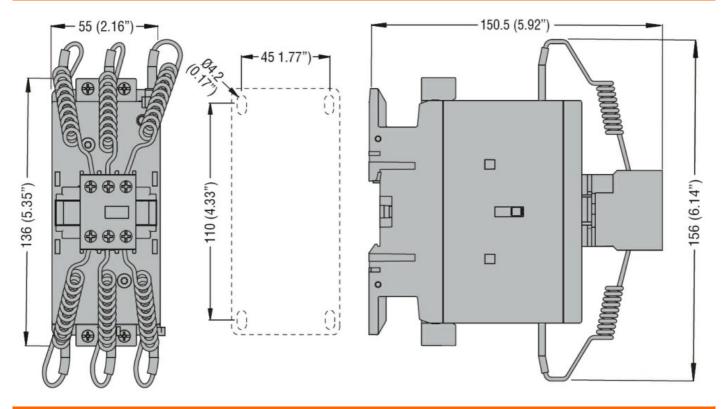




General USE

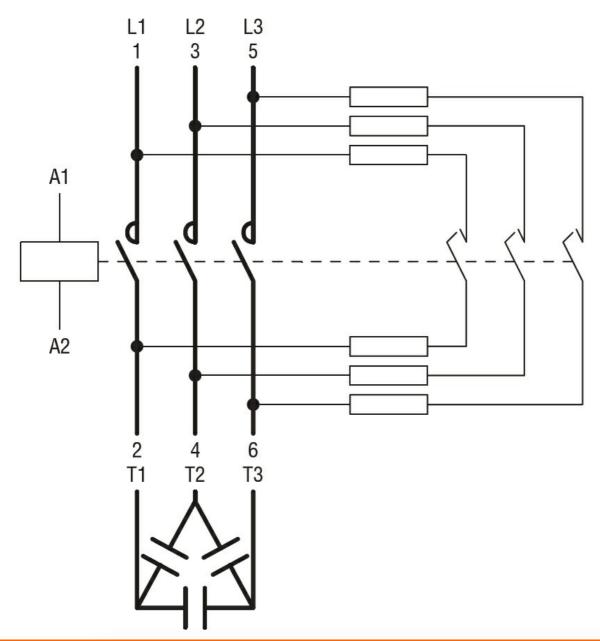
Contactor

		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