



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			0.5
	min	Hz	25
150 O	max	Hz	400
IEC Conventional free air thermal current Ith		Α	100
Operational current le	10.4 (15500)		100
	AC-1 (≤55°C)	A	130
	AC-3 (≤440V ≤55°C)	A	65
Data de constitue de conse AO Ob (T.44000)	AC-4 (400V)	Α	31
Rated operational power AC-6b (T≤40°C)	0001/		0.0
	230V	kvar	26
	400V	kvar	45
	500V	kvar	50
Chart times allowable comment for 40a (IEC/ENCO047.4)	690V	kvar	56
Short-time allowable current for 10s (IEC/EN60947-1)		Α	640
Protection fuse	~O (IFO)	۸	400
	gG (IEC)	A	100
Making apposity (DMC value)	aM (IEC)	A	80
Making capacity (RMS value)		Α	650
Breaking capacity at voltage	4.40\/	۸	500
	440V	A	520
	500V	A	425 376
Desigtance per pela (everage value)	690V	A	
Resistance per pole (average value)		mΩ	0.8
Power dissipation per pole (average value)	IAL-	147	0
	Ith AC3	W W	8 3.4
Timbaning towns for townsingle	AC3	VV	3.4
Tightening torque for terminals	min	Nimo	4
	min	Nm Nm	4
	max	Nm	5
	min	lbin Ibin	2.95 3.69
Tightening torque for coil terminal	max	IDIII	3.03
riginening torque for contennillal	min	Nlm	0.8
	min	Nm Nm	
	max	Ibft	1 0.8
	min max	Ibit	0.8 0.74
Max number of wires simultaneously connectable	illax		2
Conductor section		nr.	۷

Conductor section

Flexible w/o lug conductor section



ENERGY AND AUTOMATION

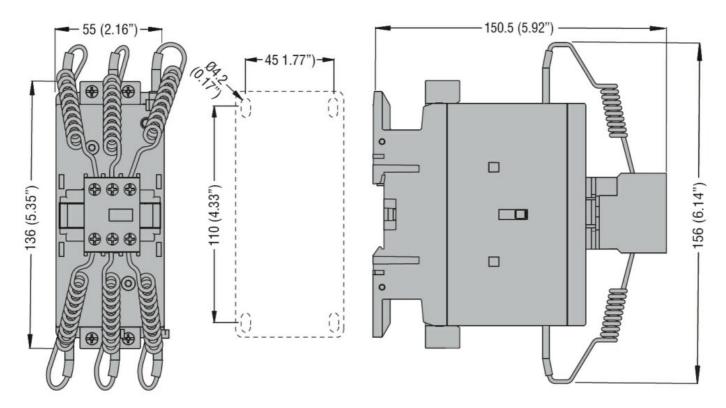
		min	mm²	1.5
		max	mm²	35
	Flexible c/w lug conductor section		2	4.5
		min	mm² mm²	1.5 35
Power terminal protect	ion according to IEC/EN 60529	max	111111	IP20 front
Mechanical features	ion according to 120/214 00323			11 20 110111
Operating position				
51		normal		vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	1090
Operations				
Mechanical life			cycles	15000000
Electrical life			cycles	400000
Safety related data				
Performance level B10	d according to EN/ISO 13489-1			
		rated load	cycles	400000
		mechanical load	cycles	15000000
and the second s	ng to IEC/EN 609474-4-1			true
EMC compatibility				yes
AC coil operating	V/2011 2011			
Rated AC voltage at 50	0/60Hz, 60Hz			40
		min	V	12
AC operating voltage		max	V	600
AC operating voltage	of 50/60Hz coil powered at 50Hz			
	pick-up			
	pion up	max	%Us	110
	drop-out	max	7000	
	ш. Ср. Т. ш.	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	20
	1.0000	max	%Us	55
AC operating voltage a				
	of 50/60Hz coil powered at 50Hz	in-rush	VA	210
		holding	VA VA	15
	of 50/60Hz coil powered at 60Hz	Holding	VA	10
	or object iz con powered at our iz	in-rush	VA	195
		holding	VA	13
	of 60Hz coil powered at 60Hz	Holanig	***	
		in-rush	VA	210
		holding	VA	15
Dissipation at holding	≤20°C 50Hz	<u> </u>	W	5
Max cycles frequency				
Mechanical operations			cycles/h	3600
Operating times				



Average time for Us control

	in AC				
		Closing NO			
		<u> </u>	min	ms	12
			max	ms	28
		Opening NO			-
		Spsg	min	ms	8
			max	ms	22
	in DC		Пах	1110	
	III DO	Closing NO			
		Closing NO	min	ms	40
					85
		Opening NO	max	ms	00
		Opening NO	min	200.0	20
			min	ms	20
I III da al al al al al al al al			max	ms	55
UL technical data					
Full-load current (FLA	A) for three-phase A	AC motor		_	
			at 480V	Α	65
-			at 600V	Α	62
Yielded mechanical p	performance				
	for three-phase	AC motor			
			200/208V	hp	20
			220/230V	hp	25
			460/480V	hp	50
			575/600V	hp	60
Contact rating of auxiliary contacts according to UL					SI - A600
General USE					
	Auxiliary contact	ts			
	·		AC voltage	V	600
			AC current	Α	10
			DC voltage	V	250
			DC current	A	1
Ambient conditions			2000000		
Temperature					
	Operating temp	erature			
	operating temp	o.a.a.o	min	°C	-50
			max	°C	70
	Storage temper	atura	IIIdX		10
	Storage temper	αιαισ	min	°C	-60
				°C	80
Max altitude			max		
	tion			m	3000
Resistance & Protect	lion				2
Pollution degree					3
Dimensions					

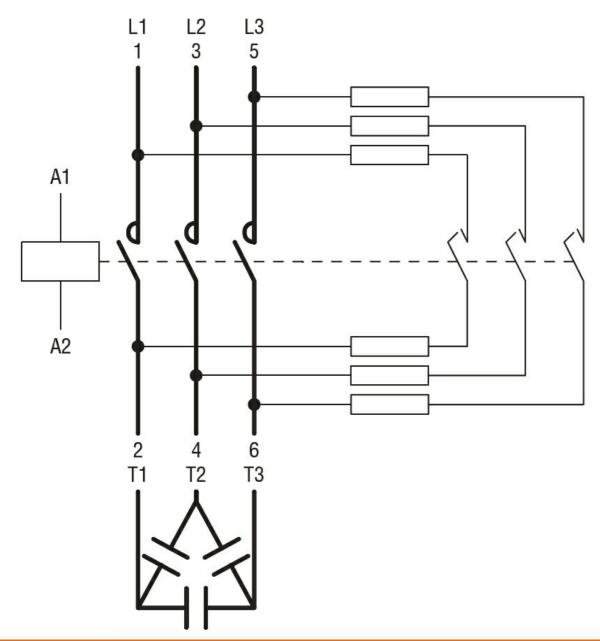
ENERGY AND AUTOMATION



Wiring diagrams



ENERGY AND AUTOMATION



Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN 60947-1

IEC/EN 60947-4-1

UL 60947-1

UL 60947-4-1

Certificates

CCC

cULus

ETIM 6 classification

EC000066 - Power contactor, AC switching