BFK5000A230

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, BFK TYPE **electric** (INCLUDING LIMITING RESISTORS), MAXIMUM IEC OPERATIONAL POWER 400V = 40KVAR, 230VAC 50/60HZ



Product designation			Power contactor
Product type designation			BFK50
Contact characteristics			
Number of poles		nr.	3
Rated insulation voltage Ui		V	690
Rated impulse withstand voltage Uimp		kV	8
Operating frequency			
	Operational frequency min	Hz	25
	Operational frequency max	Hz	400
Conventional free air thermal current Ith	, , ,	Α	90
Rated operational power AC6b (T≤40°C)			
,	230V	kvar	22
	400V	kvar	40
	500V	kvar	41
	690V	kvar	56
Short-time allowable current for 10s (IEC/EN60947-1)		Α	400
Protection fuse			
	gG (IEC)	Α	80
Resistance per pole (average value)	90 (120)	mΩ	0.8
Tightening torque for terminals		11122	0.0
rightening torque for terminals	min	Nm	4
	max	Nm	5
	min	lbft	2.95
	max	lbft	3.69
Tightening torque for coil terminal	IIIAX	IDIL	3.03
rightening torque for conterminal	min	Nm	0.8
	max	Nm	1
	min	lbft	0.8
	max	lbft	0.74
max number of wires simultaneously connectable	IIIdA	nr.	2
Conductor section		111.	
AWG			
AWG	min		14
	min		
Flovible w/e lug conductor coetion	max		2
Flexible w/o lug conductor section	min	ma ma 2	1 E
	min	mm²	1.5
Flavible also been an distance attent	max	mm²	35
Flexible c/w lug conductor section		m :== 2	1 5
	min	mm²	1.5
Device to recipal protection assemble to the IEO/EN 00500	max	mm²	35
Power terminal protection according to IEC/EN 60529			IP20 front
Auxiliary contact characteristics			
Operating current DC13			0 /5": "
	110V	Α	Screw / DIN rail 35mm



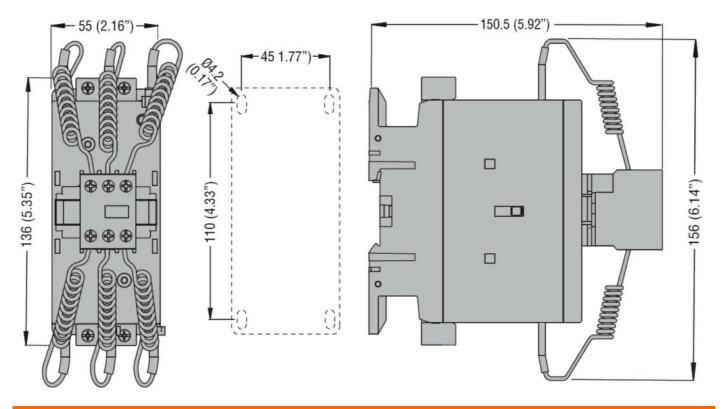
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Operating temperature	Ambient conditions				
Comparating temperature min C 50 50 70					
Max C 70	·	Operating temperature			
Storage temperature			min		-50
Max altitude			max	°C	70
Max altitude		Storage temperature			
Max altitude m 3000 Operating position normal allowable Vertical plan ±30" Mounting Screw / DIN rail 35mm Weight g 1.09 Operations Mechanical life Cycles 15000000 Electrical life Cycles 400000 Safety related data Cycles 400000 Performance level B10d according to EN/ISO 13489-1 rated load chance and chance alload chance and chance alload chance and chance alload chance and chance alload chance and chance					
Operating position Normal allowable with 30° allowable with 30° and 20° allowable with 30° and 35° and			max		
Mounting Sirew Din rail Din r				m	3000
Mounting Screw / DIN rail	Operating position				
Screw / DIN rail Screw / DIN DIN rail Screw / DIN DIN					
Weight Samm Samm			allowable		
Weight	Mounting				
Operations Mechanical life Cycles 15000000 Electrical life Cycles 400000 Safety related data Performance level B10d according to EN/ISO 13489-1 rated load Cicli 400000 EMC compatibility yes AC coil operating AC operating voltage AC operating voltage of 50/60Hz coil powered at 50Hz pick-up min widus 0.8 max of 50/60Hz coil powered at 60Hz pick-up min widus 0.85 max drop-out min widus 0.4 max drop-out min widus 0.55 of 60Hz coil powered at 60Hz pick-up min widus 0.1 drop-out min widus 0.8 max drop-out min widus 0.8 min widus 0.55 AC operating voltage AC operating voltage of 50/60Hz coil powered at 50Hz in-rush vA VA 210 holding VA 15 of	Weight				
Mechanical life Cycles 15000000 Electrical life Cycles 400000 Safety related data Performance level B10d according to EN/ISO 13489-1 Performance level B10d according to EN/ISO 13400000 Performance level B10d according to EN/ISO 1340000 Performance level B10d according to EN/ISO 1340000 Performance level B10d according to EN/ISO 1340000 Performance level B10d according to EN/ISO 134000 Performance level B10d according to EN/ISO 134000 Performan	_			9	1.00
Electrical life	•			Cvcles	15000000
Performance level B10d according to EN/ISO 13489-1 rated load Cicli 400000 mechanical load Cicli 15000000 mechanical load Cicli 15000000 yes	Electrical life			-	
Performance level B10d according to EN/ISO 13489-1 rated load Cicli 400000 mechanical load Cicli 15000000 EMC compatibility AC coil operating AC operating voltage of 50/60Hz coil powered at 50Hz pick-up AC operating voltage of 50/60Hz coil powered at 60Hz pick-up of 50/60Hz coil powered at 60Hz pick-up AC operating voltage of 50/60Hz coil powered at 60Hz pick-up AC operating voltage of 60Hz coil powered at 60Hz pick-up AC operating voltage AC operating voltage of 50/60Hz coil powered at 60Hz pick-up AC operating voltage of 50/60Hz coil powered at 50Hz AC operating voltage AC operating volta	Safety related data			,	
Tated load Cicli 400000 150000000 150000000 150000000 150000000 150000000 1500000000 150000000000		Od according to EN/ISO 13489-1			
EMC coil operating AC operating voltage of 50/60Hz coil powered at 50Hz pick-up min %Us 0.8 max %Us 1.1 drop-out min %Us 0.2 max %Us 0.55 of 50/60Hz coil powered at 60Hz pick-up min %Us 0.85 max %Us 1.1 drop-out min %Us 0.85 max %Us 1.1 drop-out min %Us 0.4 max %Us 0.55 of 60Hz coil powered at 60Hz pick-up min %Us 0.4 max %Us 0.55 of 60Hz coil powered at 60Hz pick-up min %Us 0.8 max %Us 1.1 drop-out min %Us 0.8 max %Us 0.55 AC operating voltage of 50/60Hz coil powered at 50Hz in-rush VA 210 holding VA 15 of 50/60Hz coil powered at 60Hz in-rush VA 195 holding VA 13		-	rated load	Cicli	400000
AC operating voltage of 50/60Hz coil powered at 50Hz pick-up min %Us 0.8 max %Us 1.1 drop-out min %Us 0.2 max %Us 0.55 of 50/60Hz coil powered at 60Hz pick-up min %Us 0.85 max %Us 1.1 drop-out min %Us 0.85 max %Us 1.1 drop-out min %Us 0.4 max %Us 0.55 of 60Hz coil powered at 60Hz pick-up min %Us 0.4 max %Us 0.55 of 60Hz coil powered at 60Hz pick-up min %Us 0.8 max %Us 1.1 drop-out min %Us 0.8 max %Us 1.1 drop-out min %Us 0.8 max %Us 1.1 drop-out min %Us 0.8 max %Us 0.55 AC operating voltage of 50/60Hz coil powered at 50Hz in-rush VA 210 holding VA 15 of 50/60Hz coil powered at 60Hz in-rush VA 195 holding VA 195			mechanical load	Cicli	15000000
AC operating voltage of 50/60Hz coil powered at 50Hz pick-up min %Us 0.8 max %Us 1.1 drop-out min %Us 0.2 max %Us 0.55 of 50/60Hz coil powered at 60Hz pick-up min %Us 0.85 max %Us 1.1 drop-out min %Us 0.85 max %Us 1.1 drop-out min %Us 0.4 max %Us 0.55 of 60Hz coil powered at 60Hz pick-up min %Us 0.4 max %Us 0.55 of 60Hz coil powered at 60Hz pick-up min %Us 0.8 max %Us 1.1 drop-out min %Us 0.8 max %Us 1.1 drop-out min %Us 0.8 max %Us 1.1 drop-out min %Us 0.55 AC operating voltage of 50/60Hz coil powered at 50Hz in-rush vA 210 holding vA 15 of 50/60Hz coil powered at 60Hz in-rush VA 195 holding VA 195	EMC compatibility				yes
of 50/60Hz coil powered at 50Hz pick-up min %Us 0.8 max %Us 1.1 drop-out min %Us 0.2 max %Us 0.55 of 50/60Hz coil powered at 60Hz pick-up min %Us 0.85 max %Us 1.1 drop-out min %Us 0.85 max %Us 1.1 drop-out min %Us 0.4 max %Us 0.55 of 60Hz coil powered at 60Hz pick-up min %Us 0.8 max %Us 0.55 of 60Hz coil powered at 60Hz pick-up min %Us 0.8 max %Us 1.1 drop-out min %Us 0.8 max %Us 1.1 drop-out min %Us 0.8 max %Us 1.1 drop-out min %Us 0.55 AC operating voltage of 50/60Hz coil powered at 50Hz in-rush VA 210 holding VA 15 of 50/60Hz coil powered at 60Hz in-rush VA 195 holding VA 13	AC coil operating				
Pick-up Min %Us 0.8 max %Us 1.1	AC operating voltage				
Min Wus 0.8 max Wus 1.1		of 50/60Hz coil powered at 50Hz			
Max Mus 1.1		pick-up			
drop-out min					
Min			max	%Us	1.1
max %Us 0.55		drop-out		0/11-	0.0
of 50/60Hz coil powered at 60Hz pick-up min %Us 0.85 max %Us 1.1 drop-out min %Us 0.4 max %Us 0.55 of 60Hz coil powered at 60Hz pick-up min %Us 0.8 max %Us 1.1 drop-out min %Us 0.8 max %Us 1.1 drop-out min %Us 0.8 max %Us 1.1 drop-out min %Us 0.55 AC operating voltage of 50/60Hz coil powered at 50Hz in-rush VA 210 holding VA 15 of 50/60Hz coil powered at 60Hz in-rush VA 195 holding VA 13					
Pick-up min %Us 0.85 max %Us 1.1		of EO/GOHz goil powered at GOHz	IIIdX	7008	0.55
Min WUS 0.85 max WUS 1.1					
Max Wus 1.1		рюк-ир	min	% s	0.85
drop-out					
min		drop-out	max	7000	
max %Us 0.55		op 04.	min	%Us	0.4
of 60Hz coil powered at 60Hz pick-up min %Us 0.8 max %Us 1.1 drop-out min %Us 0.2 max %Us 0.55 AC operating voltage of 50/60Hz coil powered at 50Hz in-rush VA 210 holding VA 15 of 50/60Hz coil powered at 60Hz in-rush VA 195 holding VA 13					
pick-up min %Us 0.8 max %Us 1.1 drop-out min %Us 0.2 max %Us 0.55 AC operating voltage of 50/60Hz coil powered at 50Hz in-rush VA 210 holding VA 15 of 50/60Hz coil powered at 60Hz in-rush VA 195 holding VA 13		of 60Hz coil powered at 60Hz			
Max %Us 1.1		·			
drop-out min %Us 0.2			min		
min %Us 0.2 max %Us 0.55			max	%Us	1.1
AC operating voltage of 50/60Hz coil powered at 50Hz in-rush VA 210 holding VA 15 of 50/60Hz coil powered at 60Hz in-rush VA 195 holding VA 13		drop-out			
AC operating voltage of 50/60Hz coil powered at 50Hz in-rush VA 210 holding VA 15 of 50/60Hz coil powered at 60Hz in-rush VA 195 holding VA 13					
of 50/60Hz coil powered at 50Hz in-rush VA 210 holding VA 15 of 50/60Hz coil powered at 60Hz in-rush VA 195 holding VA 13			max	%Us	0.55
in-rush VA 210 holding VA 15 of 50/60Hz coil powered at 60Hz in-rush VA 195 holding VA 13	AC operating voltage	(FO/0011 11			
holding VA 15 of 50/60Hz coil powered at 60Hz in-rush VA 195 holding VA 13		or 50/60Hz coil powered at 50Hz	:1	\/^	240
of 50/60Hz coil powered at 60Hz in-rush VA 195 holding VA 13					
in-rush VA 195 holding VA 13		of FO/GOLL7 and provinced at COLL7	noiding	VA	10
holding VA 13		oi bu/bumz coii powered at bumz	عاميس ما	١/٨	105
		of 60Hz coil powered at 60Hz	noiding	٧٨	10



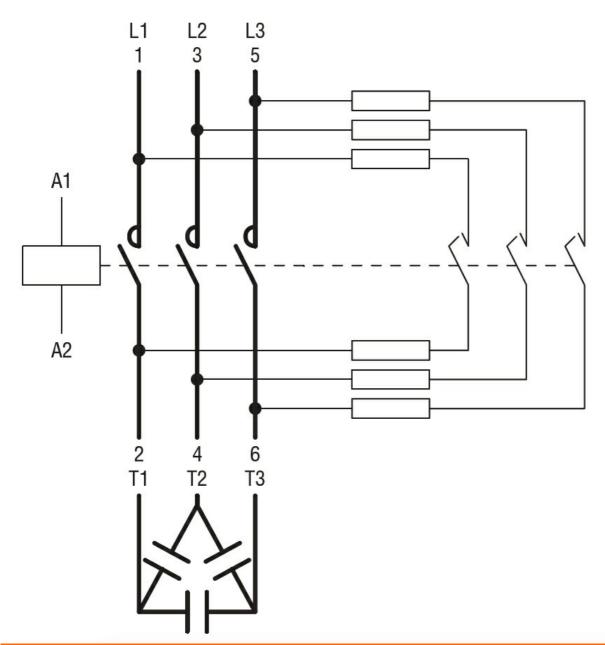
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	in-rush	VA	210
	holding	VA	15
Dissipation at holding ≤20°C 50Hz		W	5.0
Max cycles frequency			
Mechanical operations		Cycles/h	3600
Operating times			
Average time for Us control			
in AC			
Closing NO			
	min	ms	12
	max	ms	28
Opening NO			
	min	ms	8
	max	ms	22
UL technical data			
Yielded mechanical performance			
for single-phase AC motor			
	at 110/120V	hp	5
Other features			
Pollution degree			3
Dimensions			



Wiring diagrams

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Certifications and compliance

Certifications

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

Compliance

CCC

cULus

ETIM 6 classification

EC000066 - Power contactor, AC switching