CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, BFK TYPE electric (INCLUDING LIMITING RESISTORS), MAXIMUM IEC OPERATIONAL POWER 400V = 25KVAR, 400VAC 50/60HZ



Product designation		Power contactor
Product type designation		BFK32
Contact characteristics		
Number of poles	nr.	3
Rated insulation voltage Ui	V	690
Rated impulse withstand voltage Uimp	kV	6
Operating frequency		
Operational frequency min	Hz	25
Operational frequency max	Hz	400
Conventional free air thermal current Ith	Α	56
Operating current		
Operational current AC3 (≤440V ≤55°C)	Α	32
Operational current AC4 (400V)	Α	13.5
Short-time allowable current for 10s (IEC/EN60947-1)	Α	320
Protection fuse		
gG (IEC)	Α	63
aM (IEC)	Α	32
Making capacity (RMS value)	Α	320
Breaking capacity at voltage		
Breaking capacity 440V	Α	256
Breaking capacity 500V	Α	240
Breaking capacity 690V	Α	192
Resistance per pole (average value)	mΩ	2
Power dissipation per pole (average value)		
Power dissipation pole (average value) Ith	W	6
AC3	W	2
Tightening torque for terminals		
min	Nm	2.5
max	Nm	3
min	lbft	1.8
max	lbft	2.2
Tightening torque for coil terminal		
min	Nm	0.8
max	Nm	1
min	lbft	0.59
max	lbft	0.74
max number of wires simultaneously connectable	nr.	2
Conductor section		
AWG		
min		14
max		6
Flexible w/o lug conductor section		
min	mm²	2.5
max	mm²	16
Flexible c/w lug conductor section		



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		min	mm²	1
		max	mm²	10
	Flexible with insulated spade lug conductor section			
		min	mm²	1
		max	mm²	10
	tion according to IEC/EN 60529			IP20
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3,000
Operating position				
		normal		Vertical plan
		allowable		±30°
				Screw / DIN rail
Mounting				35mm
Weight			g	0.432
Operations			9	0.102
Mechanical life			Cycles	20,000,000
Electrical life			Cycles	1600000
Safety related data			Cycloc	1000000
	ng to IEC/EN 609474-4-1			Yes
EMC compatibility	19 10 120/214 000474 4 1			Yes
AC coil operating				103
Rated AC voltage at 5	0/0011 0011			
	0/60Hz 60Hz			
Nated AC Voltage at 3	0/60Hz, 60Hz	min	V	12
Nated AC Voltage at 3	0/60Hz, 60Hz	min	V	12
	0/60Hz, 60Hz	min max	V V	12 600
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
		max	V	600
	of 50/60Hz coil powered at 50Hz	max	V %Us	80
	of 50/60Hz coil powered at 50Hz pick-up	max	V	600
	of 50/60Hz coil powered at 50Hz	max min max	V %Us %Us	80 110
	of 50/60Hz coil powered at 50Hz pick-up	max min max min	V %Us %Us %Us	80 110 20
	of 50/60Hz coil powered at 50Hz pick-up drop-out	max min max	V %Us %Us	80 110
	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	max min max min	V %Us %Us %Us	80 110 20
	of 50/60Hz coil powered at 50Hz pick-up drop-out	min max min max	V %Us %Us %Us %Us	80 110 20 55
	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	min max min max	%Us %Us %Us %Us	80 110 20 55
	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	min max min max	V %Us %Us %Us %Us	80 110 20 55
	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	min max min max min max	%Us %Us %Us %Us %Us	80 110 20 55 85 110
	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	min max min max min max min max	%Us %Us %Us %Us %Us %Us	80 110 20 55 85 110
	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	min max min max min max	%Us %Us %Us %Us %Us	80 110 20 55 85 110
	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz	min max min max min max min max	%Us %Us %Us %Us %Us %Us	80 110 20 55 85 110
	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	min max min max min max min max	%Us %Us %Us %Us %Us %Us %Us	80 110 20 55 85 110 40 55
	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz	min max min max min max min max min max	%Us %Us %Us %Us %Us %Us	80 110 20 55 85 110 40 55
	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz pick-up	min max min max min max min max	%Us %Us %Us %Us %Us %Us %Us	80 110 20 55 85 110 40 55
	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz	min max min max min max min max min max	%Us %Us %Us %Us %Us %Us %Us %Us	80 110 20 55 85 110 40 55
	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz pick-up	min max	%Us %Us %Us %Us %Us %Us %Us %Us	80 110 20 55 85 110 40 55 80 110
	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz pick-up	min max min max min max min max min max	%Us %Us %Us %Us %Us %Us %Us %Us	80 110 20 55 85 110 40 55

BFK3200A400





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	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	75
		holding	VA	9
	of 50/60Hz coil powered at 60Hz			
		in-rush	VA	70
		holding	VA	6.5
	of 60Hz coil powered at 60Hz			
		in-rush	VA	75
		holding	VA	9
Dissipation at holding	≦20°C 50Hz		W	2.5
Max cycles frequency				
Mechanical operations		(Cycles/h	3,600
Operating times				
Average time for Us co				
	in AC			
	Closing NO			
		min	ms	8
		max	ms	24
	Opening NO			
		min	ms	5
		max	ms	15
	Closing NC			
		min	ms	9
		max	ms	20
	Opening NC			
		min	ms	9
		max	ms	17
	in DC			
	Closing NO			
		min	ms	53
		max	ms	65
	Opening NO			
		min	ms	14
		max	ms	18
	Closing NC			
		min	ms	23
		max	ms	28
	Opening NC			40
		min	ms	46
		max	ms	56
UL technical data				
Full-load current (FLA)	for three-phase AC motor		_	-
		at 480V	A	27
		at 600V	Α	27
Yielded mechanical pe				
	for single-phase AC motor			
		at 110/120V	hp	3
	 	at 230V	hp	7.5
	for three-phase AC motor		-	
		at 200/208V	hp	10
		at 220/230V	hp	10
		at 460/480V	hp	20
		at 575/600V	hp	25
Contact rating of auxilia	ary contacts according to UL			SI - A600

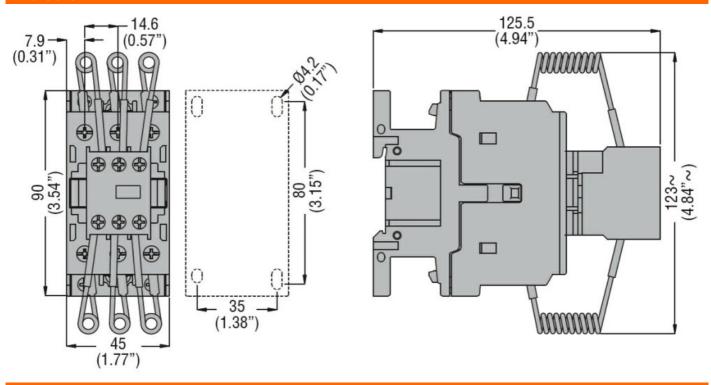


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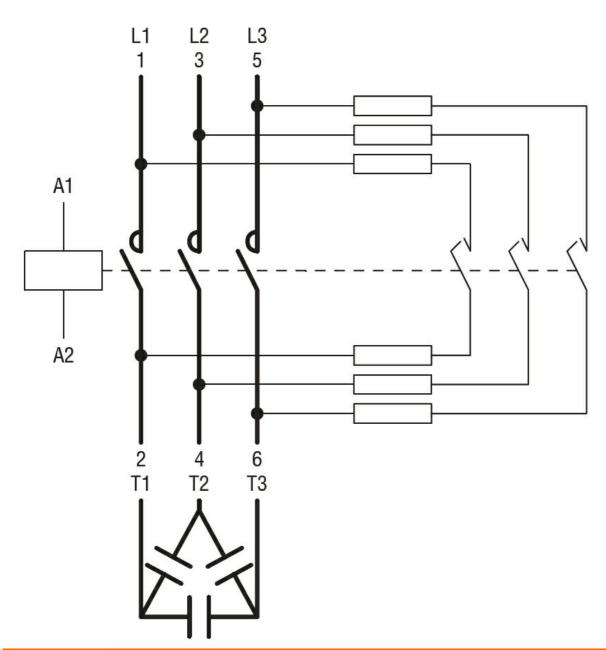
Contactor			
	AC current	Α	32
Auxiliary contacts			
	AC voltage	V	600
	AC current	Α	10
	DC voltage	V	250
	DC current	Α	1

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

EAC

ETIM 6 classification

EC000066 - Power contactor, AC switching