



Product designation Product type designation			Power contactor BFK32
Contact characteristics			
Number of poles		nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		Α	56
Operational current le			
	AC-1 (≤40°C)	Α	160
	AC-3 (≤440V ≤55°C)	Α	32
	AC-4 (400V)	Α	13.5
Rated operational power AC-6b (T≤40°C)			
	230V	kvar	14
	400V	kvar	25
	500V	kvar	27.5
	690V	kvar	30
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			
	440V	Α	256
	500V	Α	240
	690V	A	192
Resistance per pole (average value)		mΩ	2
Power dissipation per pole (average value)			
	lth -	W	6
	AC3	W	2
Tightening torque for terminals			
	min	Nm	2.5
	max	Nm	3
	min	lbin	1.8
	max	lbin	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

Flexible w/o lug conductor section



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		min	mm²	2.5
		max	mm²	16
	Flexible c/w lug conductor section	IIIdX	111111	
	Tiexible 6/W lug conductor section	min	mm²	1
		max	mm²	10
	Flexible with insulated spade lug conductor sec			
		min	mm²	1
		max	mm²	10
Power terminal protect	ion according to IEC/EN 60529			IP20
Mechanical features				
Operating position				
		normal		vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	400
Operations				
Mechanical life			cycles	20000000
Electrical life			cycles	1600000
Safety related data				
Performance level B10	od according to EN/ISO 13489-1			
		rated load	cycles	400000
	150/51100045444	mechanical load	cycles	20000000
	ng to IEC/EN 609474-4-1			true
EMC compatibility				true
AC coil operating	2/0011 0011			
Rated AC voltage at 50	J/60HZ, 60HZ		\ /	40
		min	V	12 600
AC operating voltage		max	V	600
AC operating voltage	of 50/60Hz coil powered at 50Hz			
	pick-up			
	ρισκ-αρ	max	%Us	110
	drop-out	max	7000	110
	diop out	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
-		max	%Us	55
AC operating voltage a				
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	75
	(50/00LL	holding	VA	9
	of 50/60Hz coil powered at 60Hz		3.74	70
		in-rush	VA	70
	of COLLT poil newared of COLLT	holding	VA	7
	of 60Hz coil powered at 60Hz	ja miak	١/٨	75
		in-rush	VA VA	75 0
Dissipation at holding	<20°C 50Hz	holding	W	2.5
Dissipation at notulity	-20 O 30112		V V	۷.J



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Mechanical operation	Cy			cycles/h	3600
Derating times	JIIS			Cycles/II	3600
verage time for U	s control				
werage time for O	in AC				
	111710	Closing NO			
		0.00g 0	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	A.			
		Closing NO	_		50
			min	ms	53
		On a nin n NO	max	ms	65
		Opening NO			4.4
			min	ms	14
		Closing NC	max	ms	18
		Closing NC	min	me	23
			max	ms ms	28
		Opening NC	Παλ	1115	20
		Opening NO	min	ms	46
			max	ms	56
JL technical data					
	LA) for three-phase A	.C motor			
`	,		at 480V	Α	27
			at 600V	Α	27
'ielded mechanica	l performance				
	for single-phase	AC motor			
	-		110/120V	hp	3
			230V	hp	7.5
	for three-phase	AC motor		· <u> </u>	
			200/208V	hp	10
			220/230V	hp	10
			460/480V	hp	20
			575/600V	hp	25
	xiliary contacts accor	ding to UL			SI - A600
General USE					
	Auxiliary contact	S			
			AC voltage	V	600
			AC current	Α	10
			DC voltage	V	250
			DC current	Α	1
Ambient conditions					
Temperature					
	Operating temper	erature		0.7	
			min	°C	-50

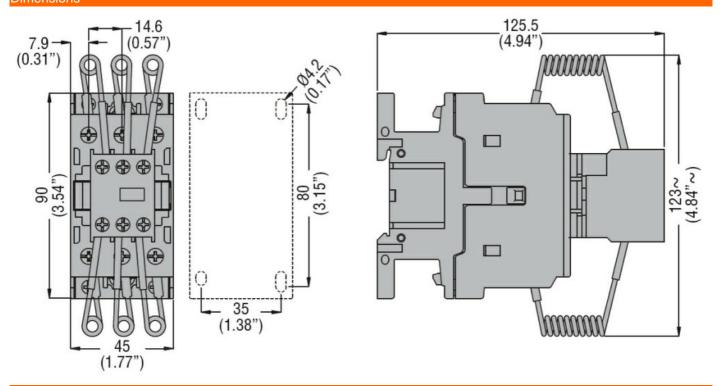
3



	max	°C	70
Storage temperature			
	min	°C	-60
	max	°C	80
Max altitude		m	3000
Resistance & Protection			

Dimensions

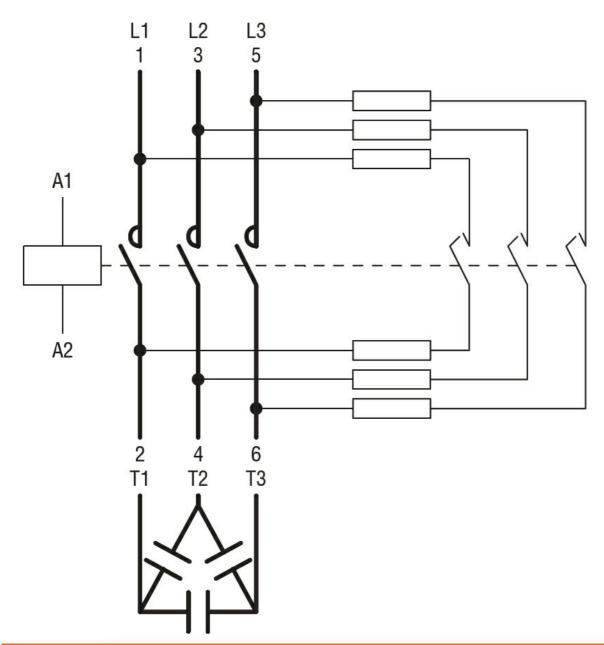
Pollution degree



Wiring diagrams







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

EAC

ETIM 6 classification

EC000066 - Power contactor, AC switching