



Product designation Product type designation			Power contactor BFK32
Contact characteristics			DFN32
Number of poles		nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency			
op ordinarion a quarrey	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
9	aM (IEC)	Α	32
Making capacity (RMS value)		Α	320
Breaking capacity at voltage			
	440V	Α	256
	500V	Α	240
	690V	Α	192
Resistance per pole (average value)		mΩ	2
Power dissipation per pole (average value)	1.1		•
	Ith	W	6
The first of the f	AC3	W	2
Tightening torque for terminals		Nies	0.5
	min	Nm	2.5
	max	Nm	3
	min	lbin Ibin	1.8 2.2
Tightening torque for coil terminal	max	וווטו	۷.۷
riginering torque for contentinal	min	Nm	0.8
	max	Nm	0.8 1
	min	Ibft	0.59
	max	Ibft	0.74
Max number of wires simultaneously connectable	IIIdA	nr.	2
Conductor section		1111.	

Conductor section

Flexible w/o lug conductor section



			2	0.5
		min	mm²	2.5
	Florible about a conductor costing	max	mm²	16
	Flexible c/w lug conductor section		ma ma 2	4
		min	mm² mm²	1 10
	Flexible with insulated spade lug conductor se	ction	111111	10
	Flexible with insulated spade lug conductor se	min	mm²	1
		max	mm²	10
Power terminal protect	tion according to IEC/EN 60529	Пах		IP20
Mechanical features	4000.4g to 12.0/2.11 00020			20
Operating position				
1 01		normal		vertical plan
		allowable		±30°
Fixing				Screw / DIN rail
Fixing				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
		mechanical load	cycles	20000000
	ng to IEC/EN 609474-4-1			true
EMC compatibility				true
AC coil operating	2/22/1			
Rated AC voltage at 50	J/60HZ, 60HZ			40
		min	V V	12 600
AC operating voltage		max	V	600
AC operating voltage	of 50/60Hz coil powered at 50Hz			
	pick-up			
	plok up	max	%Us	110
	drop-out	max	7000	110
	arop dat	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
		holding	VA	9
	of 50/60Hz coil powered at 60Hz			70
		in-rush	VA	70
	of COLLE and a superior Lat COLL	holding	VA	7
	of 60Hz coil powered at 60Hz	•	١/٨	75
		in-rush	VA	75
Dissipation of halding	<20°C 50H=	holding	VA	9
Dissipation at holding:	≥∠U U DU⊓∠		W	2.5



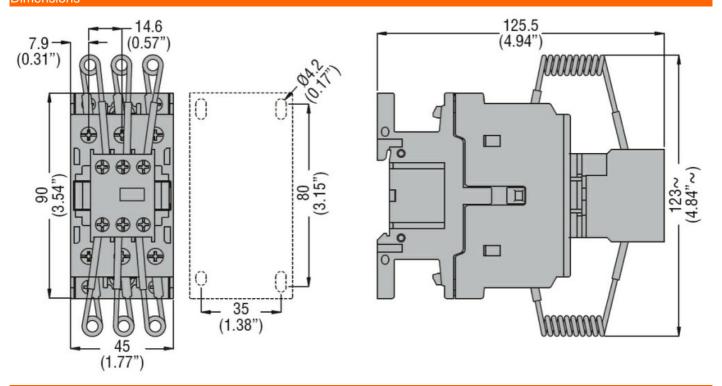
**ENERGY AND AUTOMATION** 

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	<b>A.</b>			
		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		·	
			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



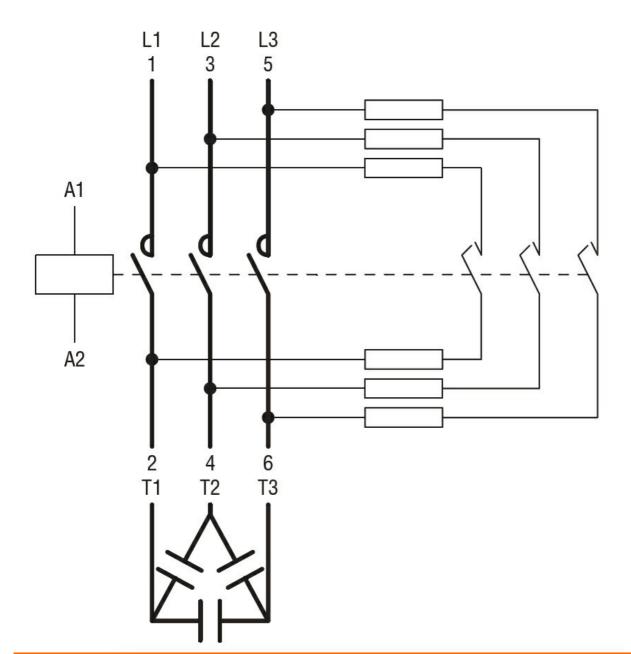
	max	°C	70
Storage temperature			
	min	°C	-60
	max	°C	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3

## **Dimensions**



Wiring diagrams





## Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN 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