



Product designation	Power contactor		
Product type designation	BFK32		
Contact characteristics			
Number of poles	Nr.	3	
Rated insulation voltage U_i IEC/EN	V	690	
Rated impulse withstand voltage U_{imp}	kV	6	
Operational frequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current I_{th}	A	56	
Rated operational power AC-6b ($T \leq 40^\circ C$)	230V	kvar	14
	400V	kvar	25
	440...480V	kvar	27.5
	690V	kvar	30
Short-time allowable current for 10s (IEC/EN60947-1)	A	320	
Protection fuse	gG (IEC)	A	63
Making capacity (RMS value)	A	320	
Breaking capacity at voltage	440V	A	256
	500V	A	240
	690V	A	192
Resistance per pole (average value)	$m\Omega$	2	
Power dissipation per pole (average value)	I_{th}	W	6
Tightening torque for terminals	min	Nm	2.5
	max	Nm	3
	min	I_{bin}	1.8
	max	I_{bin}	2.2
Tightening torque for coil terminal	min	Nm	0.8
	max	Nm	1
	min	I_{bin}	0.59
	max	I_{bin}	0.74
Max number of wires simultaneously connectable	Nr.	2	
Conductor section	AWG/Kcmil		
	max		6
Flexible w/o lug conductor section	min	mm^2	2.5
	max	mm^2	16
Flexible c/w lug conductor section	min	mm^2	1

	max	mm ²	10		
Flexible with insulated spade lug conductor section					
	min	mm ²	1		
	max	mm ²	10		
Power terminal protection according to IEC/EN 60529	IP20 when properly wired				
Mechanical features					
Operating position	normal allowable	Vertical plan ±30°			
Fixing	Screw / DIN rail 35mm				
Weight	g	400			
Operations					
Mechanical life	cycles	20000000			
Electrical life	cycles	1600000			
Safety related data					
Performance level B10d according to EN/ISO 13489-1	rated load	cycles	1600000		
	mechanical load	cycles	20000000		
EMC compatibility	yes				
AC coil operating					
Rated AC voltage at 50/60Hz	V	110			
AC operating voltage					
of 50/60Hz coil powered at 50Hz					
pick-up	min	%Us	80		
	max	%Us	110		
drop-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 average coil consumption at 20°C					
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	7		
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 operation	cycles/h	3600			
Operating times					
Average time for Us control					
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

UL technical data

Rated operational voltage AC (UL)	V	600
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General USE

Contactor	AC current	A	56
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Ambient conditions

Temperature

Operating temperature	min	°C	-50
	max	°C	70

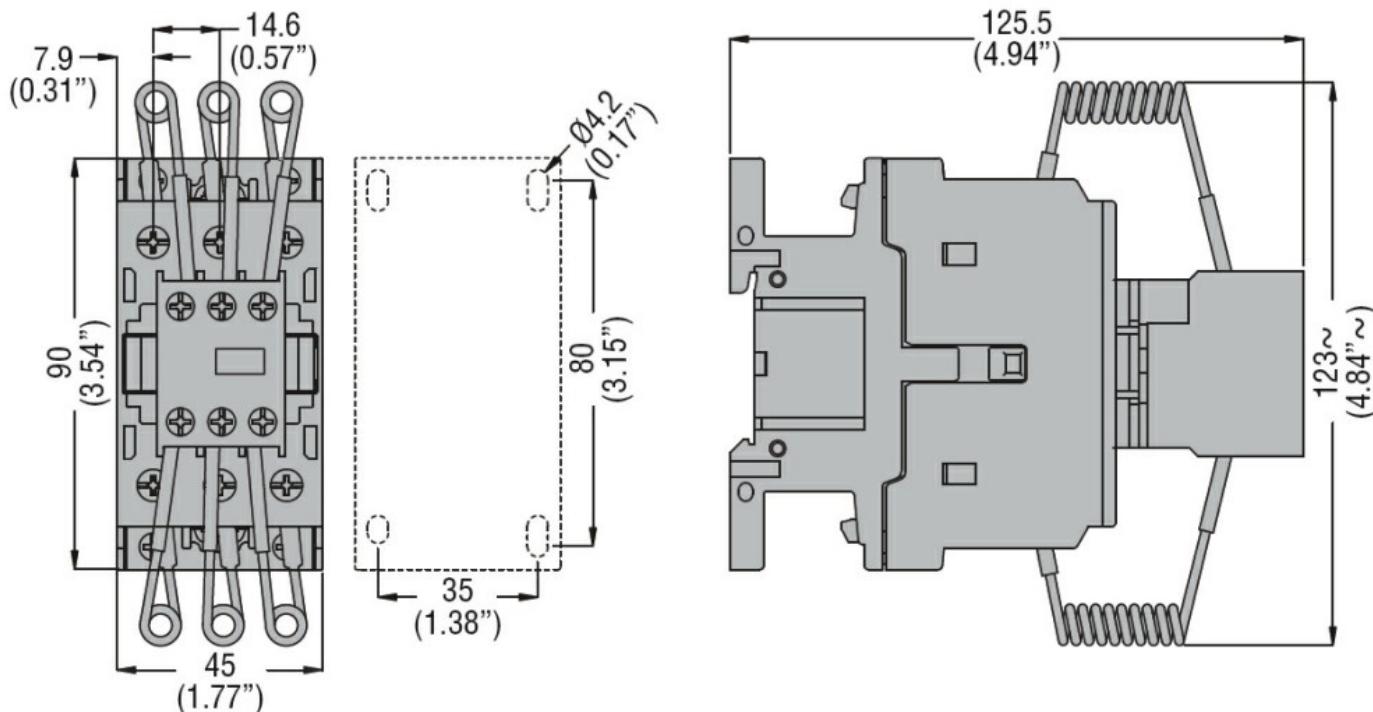
Storage temperature	min	°C	-60
	max	°C	80

Max altitude	m	3000
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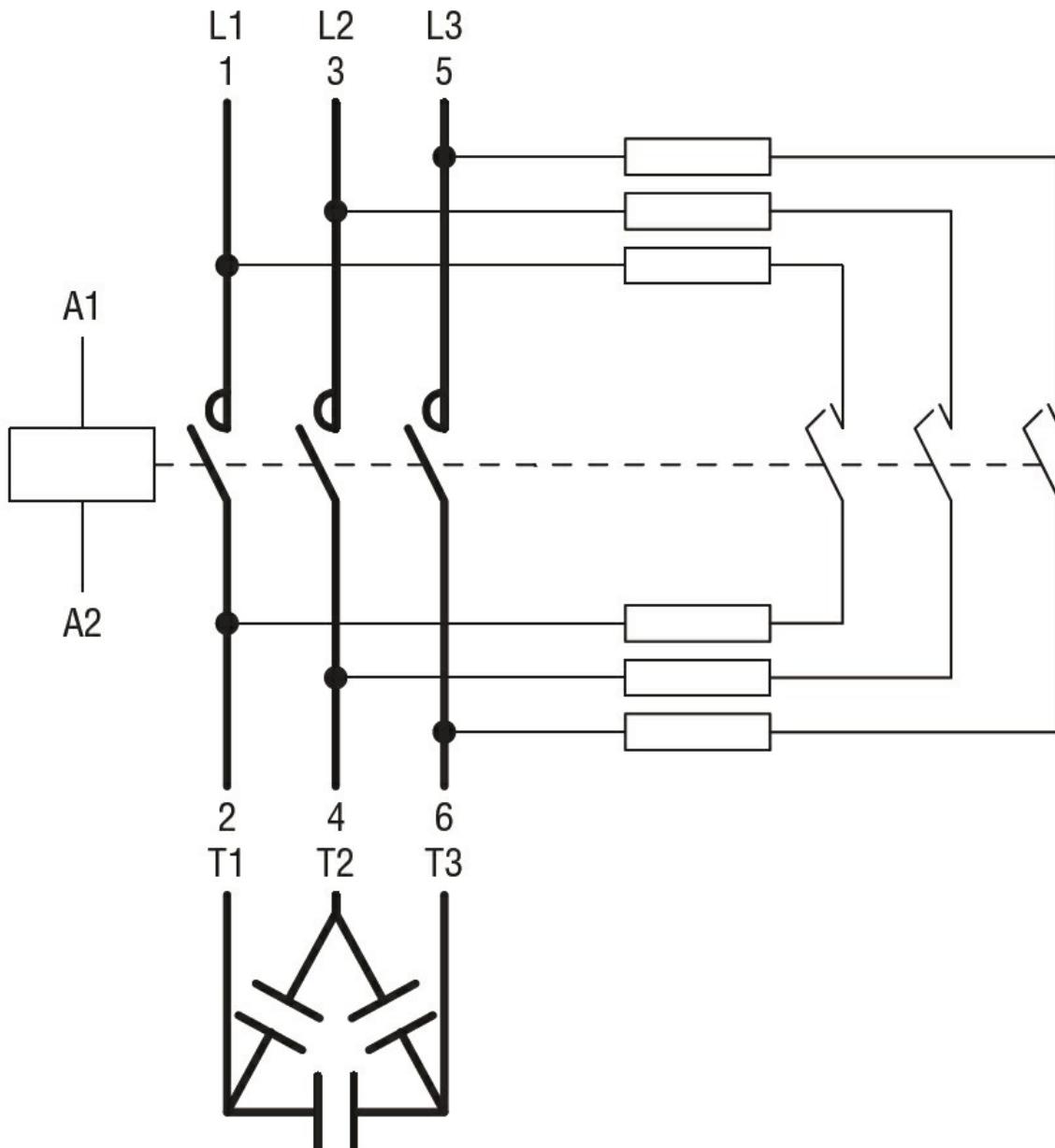
Resistance & Protection

Pollution degree	3
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Dimensions



Wiring diagrams



Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN/BS 60947-1

IEC/EN/BS 60947-4-1

UL 60947-1

UL 60947-4-1

Certificates

CCC

cULus

EAC

ETIM classification

ETIM 8.0

EC001079 -
Capacitor
contactor