





Product designation				Power contactor
Product type designa				BFK94
Contact characteristic	s en			
Number of poles			Nr.	3
Rated insulation volta			V	690
Rated impulse withsta	and voltage Uimp		kV	8
Operational frequency	у			
		min	Hz	25
		max	Hz	400
IEC Conventional free		Α	115	
Rated operational por	wer AC-6b (T≤40°C)			
		230V	kvar	34
		400V	kvar	60
		440480V	kvar	75
		690V	kvar	80
Short-time allowable	current for 10s (IEC/EN60947-1)		Α	640
Protection fuse				
		gG (IEC)	Α	125
Making capacity (RMS	S value)		Α	950
Breaking capacity at v				
	· ·	440V	Α	760
		500V	Α	660
		690V	Α	475
Resistance per pole (	Resistance per pole (average value)			0.6
	Power dissipation per pole (average value)			
	,	lth	W	7.9
Tightening torque for	terminals			
0 0 1		min	Nm	4
		max	Nm	5
		min	lbin	2.95
		max	lbin	3.69
Tightening torque for	coil terminal	<u></u>		
3 12 3 151 que 161		min	Nm	0.8
		max	Nm	1
		min	lbin	0.8
		max	lbin	0.74
Max number of wires	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		2
	Flexible w/o lug conductor section	max		<del>-</del>
		min	mm²	1.5
		max	mm²	35
	Flexible c/w lug conductor section	max		
	. ionalio of thing contractor decition	min	mm²	1.5



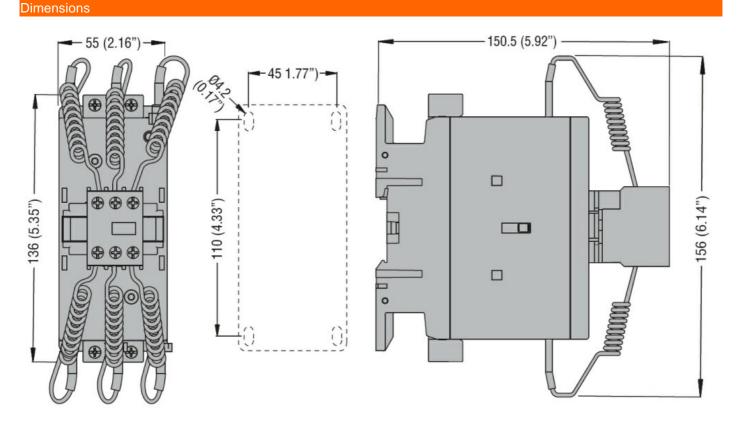


	max	mm²	35
Power terminal protection according to IEC/EN 60529			IP20 front
Mechanical features			
Operating position			
	normal		Vertical plan
	allowable		±30°
Fixing			Screw / DIN rail
- Maiaht			35mm 1090
Veight Conductor section		g	1090
AWG/kcmil conductor section			
AWG/KCITIII COTIQUCTOR SECTION	max		2
Operations	IIIdX		2
Mechanical life		cycles	15000000
Electrical life		cycles	400000
Safety related data		Oy 0103	400000
Performance level B10d according to EN/ISO 13489-1			
	rated load	cycles	400000
	mechanical load	cycles	15000000
EMC compatibility		,	yes
AC coil operating			7
Rated AC voltage at 50/60Hz		V	24
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		0/11	
	min	%Us	85
dana and	max	%Us	110
drop-out		0/116	20
	min	%Us %Us	20 55
AC average coil consumption at 20°C	max	/oUS	JU
of 50/60Hz coil powered at 50Hz			
or 50/50/12 50/1 powered at 50/12	in-rush	VA	210
	holding	VA	15
of 50/60Hz coil powered at 60Hz	noising	***	· •
5. 55. 55. <u>5</u> 50. 50. 50. 50. 60. 60. 60. 60. 60. 60. 60. 60. 60. 6	in-rush	VA	195
	holding	VA	13
of 60Hz coil powered at 60Hz			
·	in-rush	VA	210
	holding	VA	15
Dissipation at holding ≤20°C 50Hz	<u> </u>	W	5
Max cycles frequency		_	
Mechanical operation		cycles/h	3600
Operating times			
verage time for Us control			

Closing NO

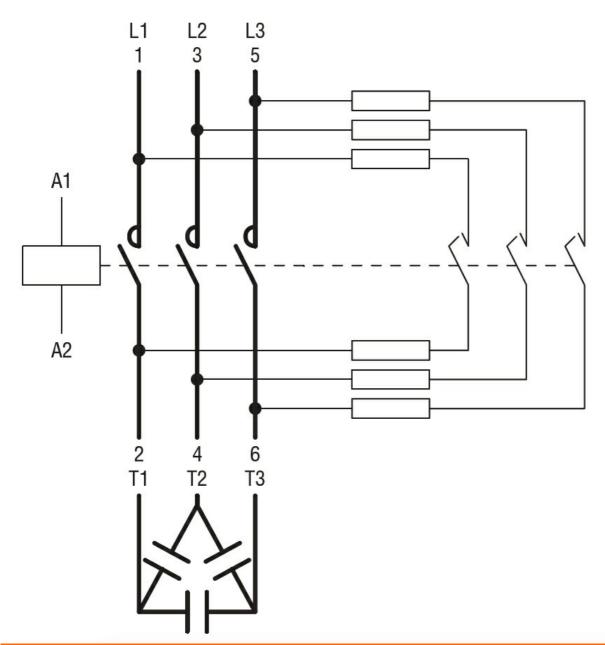


			min	ms	12
			max	ms	28
		Opening NO			
			min	ms	8
			max	ms	22
	in DC				
		Closing NO			
		•	min	ms	40
			max	ms	85
		Opening NO			
			min	ms	20
			max	ms	55
UL technical data					
General USE					
	Contactor				
			AC current	Α	115
Ambient conditions					
Temperature					
	Operating temperature	<b>!</b>			
			min	°C	-50
			max	°C	70
	Storage temperature				
			min	°C	-60
			max	°C	80
Max altitude				m	3000
Resistance & Protection	nn.				
	лı <u> </u>				
Pollution degree	ות				3



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

ETIM classification

**ETIM 8.0** 

EC001079 -Capacitor contactor