





Product designation				Power contactor
Product type designa	ation			BFK94
Contact characteristi	cs			
Number of poles			Nr.	3
Rated insulation volta	age Ui IEC/EN		V	690
Rated impulse withst	and voltage Uimp		kV	8
Operational frequence	су			
		min	Hz	25
		max	Hz	400
IEC Conventional fre	e air thermal current Ith		Α	115
Rated operational po	ower 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 (RM	S value)		Α	950
Breaking capacity at	voltage			
		440V	Α	760
		500V	Α	660
		690V	Α	475
Resistance per pole	(average value)		mΩ	0.6
Power dissipation pe	r pole (average value)			
		Ith	W	7.9
Tightening torque for	terminals			
		min	Nm	4
		max	Nm	5
		min	Ibin	2.95
		max	Ibin	3.69
Tightening torque for	coil terminal			
		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			
		min	mm²	1.5
		max	mm²	35
	Flexible c/w lug conductor section			
		min	mm²	1.5
				-





		max	mm²	35
	tion according to IEC/EN 60529			IP20 front
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
ixing				Screw / DIN rai
				35mm
Veight			g	1090
Conductor section				
	AWG/kcmil conductor section			
		max		2
Operations				
Mechanical life			cycles	15000000
lectrical life			cycles	400000
Safety related data				
Performance level B10	Od according to EN/ISO 13489-1			
	-	rated load	cycles	400000
		mechanical load	cycles	15000000
MC compatibility				yes
C coil operating				, and the second
Rated AC voltage at 50	0/60Hz		V	24
C operating voltage	-,		<u> </u>	
ie operaning remage	of 50/60Hz coil powered at 50Hz			
	pick-up			
	pick up	min	%Us	80
		max	%Us	110
	drop-out	max	7000	110
	arop out	min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz	max	7000	
	pick-up			
	рюк-ир	min	%Us	85
		max	%Us	110
	drap out	max	/003	110
	drop-out	min	%Us	20
		min	%Us	55
C average sell sersi	umption at 20°C	max	/ ₀ US	JU
AC average coil consu	•			
	of 50/60Hz coil powered at 50Hz	ا ــــــــــــــــــــــــــــــــــــ	١/٨	210
		in-rush	VA	210
	of FO/COLLT poil reviewed at COLLT	holding	VA	15
	of 50/60Hz coil powered at 60Hz		١/٨	105
		in-rush	VA	195
	of COLL college and but COLL	holding	VA	13
	of 60Hz coil powered at 60Hz	, ,	\	040
		in-rush	VA	210
	-0000 FOLL	holding	VA	15
Dissipation at holding :	≤20°C 50Hz		W	5
Max cycles frequency				
Mechanical operation Departing times			cycles/h	3600

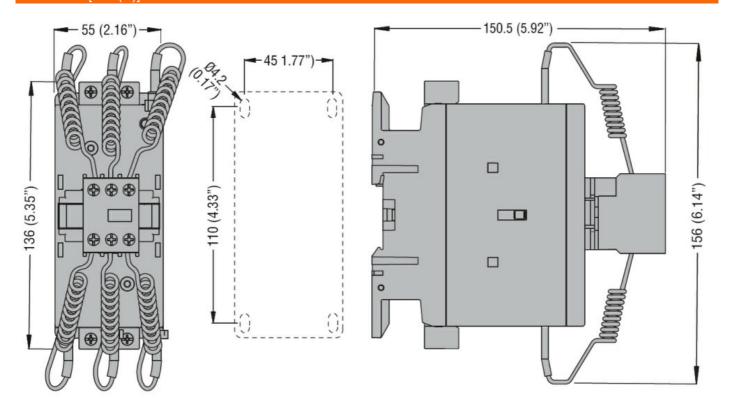
in AC

Closing NO

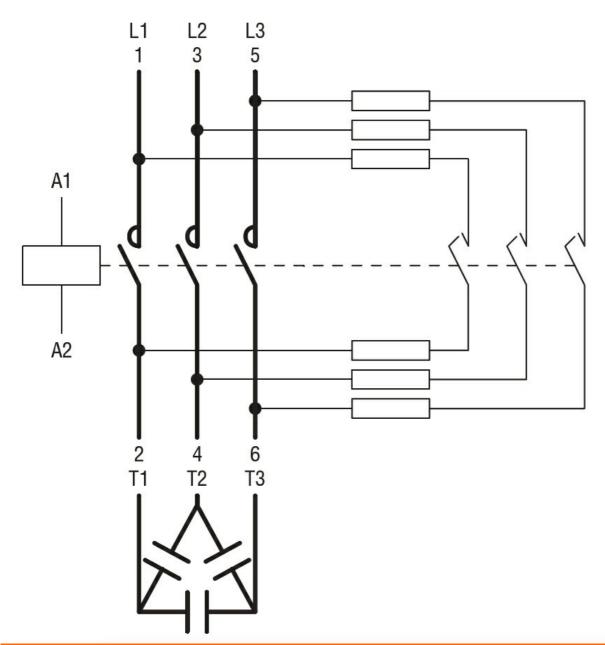


			min	ms	12
			max	ms	28
		Opening NO			
		, ,	min	ms	8
			max	ms	22
	in DC				
		Closing NO			
		· ·	min	ms	40
			max	ms	85
		Opening NO			
			min	ms	20
			max	ms	55
UL technical data					
General USE					
	Contactor				
			AC current	Α	115
Ambient conditions					
Temperature					
	Operating temperature				
			min	°C	-50
			max	°C	70
	Storage temperature				
			min	°C	-60
			max	°C	80
Max altitude				m	3000
Resistance & Protection	on				
Pollution degree					3

Dimensions [mm (in)]







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







Product designation				Power contactor
Product type designa	ation			BFK94
Contact characteristi	cs			
Number of poles			Nr.	3
Rated insulation volta	age Ui IEC/EN		V	690
Rated impulse withst	and voltage Uimp		kV	8
Operational frequence	су			
		min	Hz	25
		max	Hz	400
IEC Conventional fre	e air thermal current Ith		Α	115
Rated operational po	ower 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 (RM	S value)		Α	950
Breaking capacity at	voltage			
		440V	Α	760
		500V	Α	660
		690V	Α	475
Resistance per pole	(average value)		mΩ	0.6
Power dissipation pe	r pole (average value)			
		Ith	W	7.9
Tightening torque for	terminals			
		min	Nm	4
		max	Nm	5
		min	Ibin	2.95
		max	lbin	3.69
Tightening torque for	coil terminal			
		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			
		min	mm²	1.5
		max	mm²	35
	Flexible c/w lug conductor section			
		min	mm²	1.5
				-



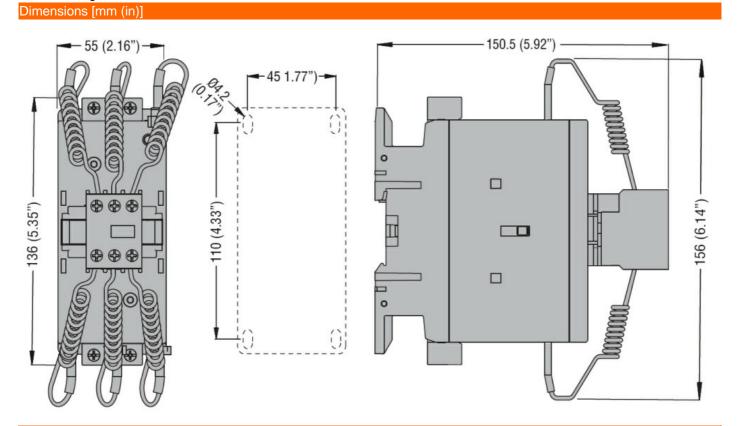


	max	mm²	35
			IP20 front
	norma		Vertical plan
	allowable	!	±30°
			Screw / DIN rail
			35mm
		g	1090
	may		2
	max		2
		ovelee.	45000000
		cycles	15000000
		cycles	400000
	rated load	cycles	400000
m	rated load nechanical load	,	1500000
1110	iechanicai ioac	Cycles	
			yes
		V	48
		V	+0
	min	%Us	80
	max		110
		,,,,,	
	min	%Us	20
	max	%Us	55
	min	%Us	85
	max	%Us	110
	min		20
	max	%Us	55
	in-rush		210
	holding	VA	15
			405
	in-rush		195
	holding	VA	13
	to	1.74	240
	in-rush		210
	holding		15
		W	5
		ovoloo/b	2600
		cycles/h	3000

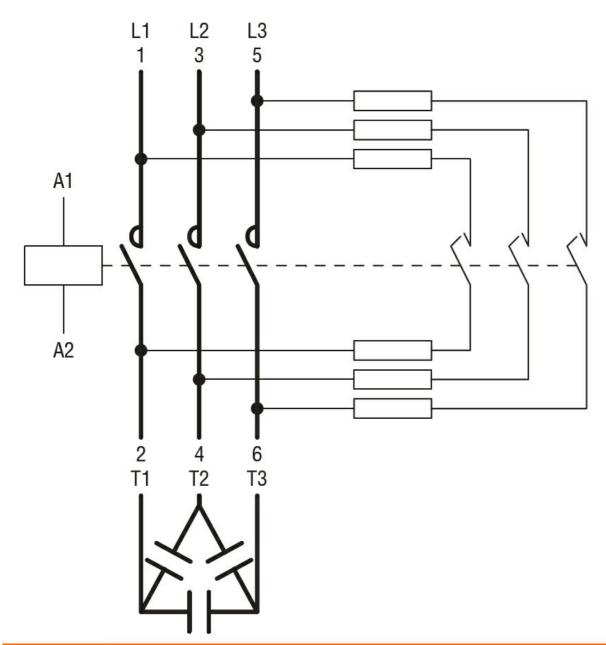
Closing NO



			min	ms	12
			max	ms	28
		Opening NO			-
		oponing i to	min	ms	8
			max	ms	22
	in DC				
	111 20	Closing NO			
		Closing 110	min	ms	40
			max	ms	85
		Opening NO	Παλ	1113	00
		Opening NO	min	mo	20
				ms	
			max	ms	55
UL technical data					
General USE					
	Contactor				
			AC current	Α	115
Ambient conditions					
Temperature					
	Operating temperature)			
			min	°C	-50
			max	°C	70
	Storage temperature				
	- J		min	°C	-60
			max	°C	80
Max altitude				m	3000
Resistance & Protection	on				
Pollution degree	<u> </u>				
					3







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







Product designation				Power contactor
Product type designat				BFK94
Contact characteristic	S			
Number of poles	18150/51		Nr.	3
Rated insulation voltage	-		V	690
Rated impulse withsta			kV	8
Operational frequency	1			
		min	Hz	25
		max	Hz	400
	air thermal current Ith		A	115
Rated operational pov	ver AC-6b (T≤40°C)			
		230V	kvar	34
		400V	kvar	60
		440480V	kvar	75
		690V	kvar	80
Short-time allowable of	current for 10s (IEC/EN60947-1)		Α	640
Protection fuse				
		gG (IEC)	Α	125
Making capacity (RMS	value)		Α	950
Breaking capacity at v	oltage			
	-	440V	Α	760
		500V	Α	660
		690V	Α	475
Resistance per pole (a	average value)		mΩ	0.6
Power dissipation per	pole (average value)			
		Ith	W	7.9
Tightening torque for t	erminals			
		min	Nm	4
		max	Nm	5
		min	lbin	2.95
		max	lbin	3.69
Tightening torque for o	coil terminal			
0 0 1		min	Nm	0.8
		max	Nm	1
		min	Ibin	0.8
		max	Ibin	0.74
Max number of wires	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		2
	Flexible w/o lug conductor section	max		
	, o .a.g conductor coolien	min	mm²	1.5
		max	mm²	35
	Flexible c/w lug conductor section	max		
	1 Ionibio of Wilay contactor section	min	mm²	1.5
		.,,,,,,		





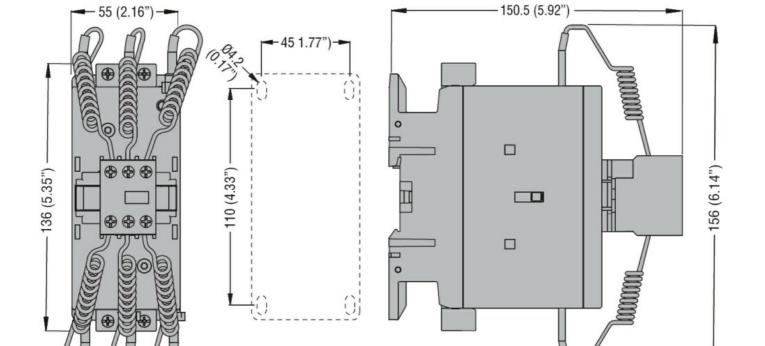
		max	mm²	35
	tion according to IEC/EN 60529			IP20 front
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
ixing				Screw / DIN rai
				35mm
Veight			g	1090
Conductor section				
	AWG/kcmil conductor section			
		max		2
Operations				
Mechanical life			cycles	15000000
Electrical life			cycles	400000
Safety related data				
Performance level B10	Od according to EN/ISO 13489-1			
		rated load	cycles	400000
		mechanical load	cycles	15000000
MC compatibility				yes
C coil operating				
Rated AC voltage at 50	0/60Hz		V	110
C 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 consu	mption at 20°C			
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	210
		holding	VA	15
	of 50/60Hz coil powered at 60Hz			
		in-rush	VA	195
		holding	VA	13
	of 60Hz coil powered at 60Hz	<u> </u>		
	-	in-rush	VA	210
		holding	VA	15
Dissipation at holding :	≤20°C 50Hz		W	5
Max cycles frequency				
Mechanical operation			cycles/h	3600
perating times				
verage time for Us co	ontrol			

in AC

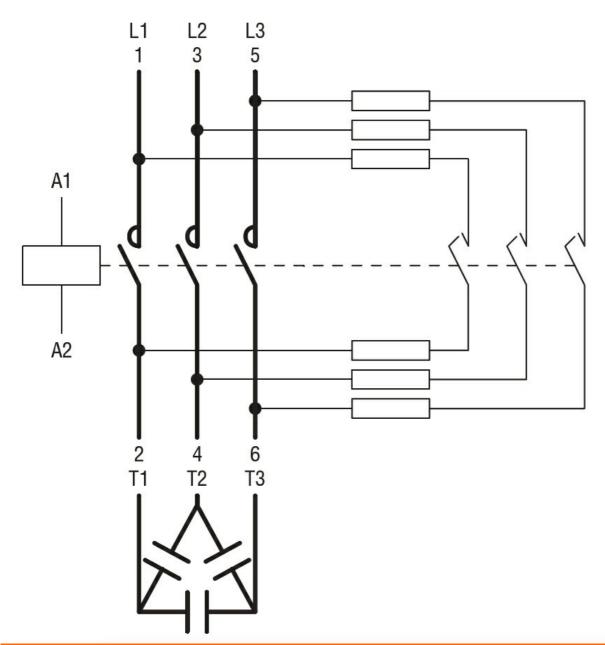
Closing NO



			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				
			min	°C	-50
			max	°C	70
	Storage temperature				
			min	°C	-60
			max	°C	80
Max altitude				m	3000
Resistance & Protection	on				
Pollution degree					3
Dimensions [mm (in)]					
[]					







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

BFK9400A110





Product designation			Power contactor
Product type designation			BFK94
Contact characteristics			
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	8
Operational frequency			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		Α	115
Rated operational power 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 value)	90 (:=0)	A	950
Breaking capacity at voltage		,,	
2. calling capacity at rollage	440V	Α	760
	500V	A	660
	690V	A	475
Resistance per pole (average value)	0001	mΩ	0.6
Power dissipation per pole (average value)		11122	0.0
Tower dissipation per pole (average value)	lth	W	7.9
Tightening torque for terminals	Tui	• • •	7.0
rightering torque for terminals	min	Nm	4
	max	Nm	5
	min	lbin	2.95
	max	Ibin	3.69
Tightening torque for coil terminal	IIIax	IDIII	5.09
rightening torque for contentimal	min	Nm	0.8
	max	Nm	1
	min	Ibin	0.8
Management of citizen streethers and because the	max	Ibin	0.74
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil			0
EL NIL / L	max		2
Flexible w/o lug conductor section		•	4 =
	min	mm²	1.5
	max	mm²	35
Flexible c/w lug conductor section	min	mm²	1.5



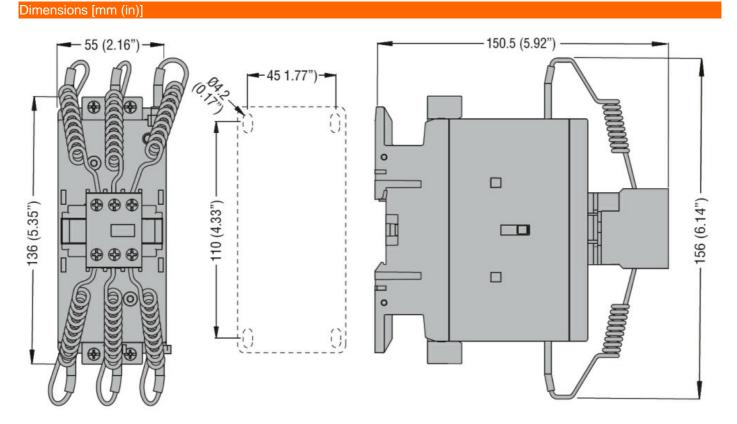


	max	mm²	35
Power terminal protection according to IEC/EN 60529			IP20 front
Mechanical features			
Operating position			
	normal		Vertical plan
	allowable		±30°
Fixing			Screw / DIN rail
- Maiaht			35mm 1090
Veight Conductor section		g	1090
AWG/kcmil conductor section			
AWG/KCITIII COTIQUCTOR SECTION	max		2
Operations	max		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			, and the second
Rated AC voltage at 50/60Hz		V	230
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
draw out	max	%Us	110
drop-out	min	0/116	20
	min	%Us %Us	20 55
AC average coil consumption at 20°C	max	/005	JJ
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		W	5
Max cycles frequency			
Mechanical operation		cycles/h	3600
Operating times			
verage time for Us control			

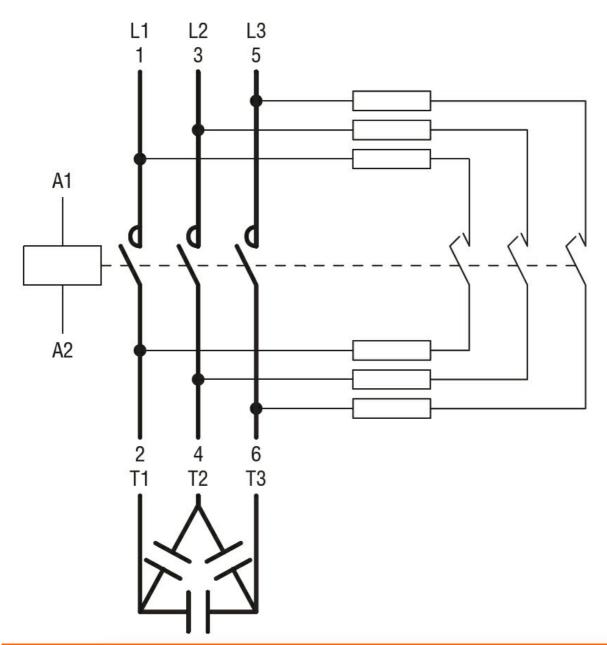
Closing NO



			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					
General USE					
Gerierai OSE	Contactor				
General USE	Contactor		AC current	A	115
Ambient conditions	Contactor		AC current	Α	115
	Contactor		AC current	Α	115
Ambient conditions	Contactor Operating temperature	9	AC current	A	115
Ambient conditions		e	AC current	A °C	-50
Ambient conditions		е			
Ambient conditions		e	min	°C	-50
Ambient conditions	Operating temperature	9	min	°C	-50
Ambient conditions	Operating temperature	е	min max	°C °C	-50 70
Ambient conditions	Operating temperature	e	min max min	°C °C	-50 70 -60
Ambient conditions Temperature	Operating temperature Storage temperature	9	min max min	°C °C °C	-50 70 -60 80







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







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Product type designa	ation			BFK94
Contact characteristi	cs			
Number of poles			Nr.	3
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Rated impulse withst	and voltage Uimp		kV	8
Operational frequence	су			
		min	Hz	25
		max	Hz	400
IEC Conventional fre	e air thermal current Ith		Α	115
Rated operational po	ower 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 (RM	S value)		Α	950
Breaking capacity at	voltage			
		440V	Α	760
		500V	Α	660
		690V	Α	475
Resistance per pole	(average value)		mΩ	0.6
Power dissipation pe	r pole (average value)			
		Ith	W	7.9
Tightening torque for	terminals			
		min	Nm	4
		max	Nm	5
		min	Ibin	2.95
		max	lbin	3.69
Tightening torque for	coil terminal			
		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			
		min	mm²	1.5
		max	mm²	35
	Flexible c/w lug conductor section			
		min	mm²	1.5
				-





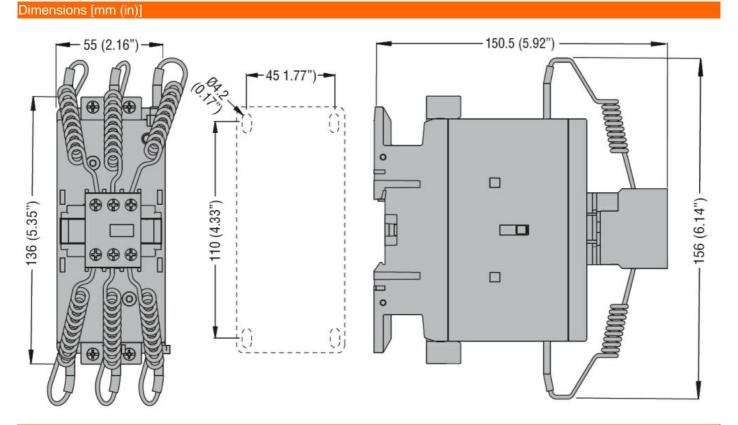
		max	mm²	35
Power terminal protecti	on according to IEC/EN 60529			IP20 front
lechanical features				
perating position				
		normal		Vertical plan
		allowable		±30°
ixing				Screw / DIN rai
				35mm
Veight			g	1090
Conductor section				
	AWG/kcmil conductor section			
		max		2
Operations				
Mechanical life			cycles	15000000
lectrical life			cycles	400000
Safety related data				
'ertormance level B10	d according to EN/ISO 13489-1			100005
		rated load	cycles	400000
		mechanical load	cycles	15000000
MC compatibility				yes
C coil operating	To a second			
Rated AC voltage at 50	/60Hz		V	400
C operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out		0/11	
		min	%Us	20
	150/501	max	%Us	55
	of 50/60Hz coil powered at 60Hz			
	pick-up		0/11	0.5
		min	%Us	85
	duan aud	max	%Us	110
	drop-out		0/11-	20
		min	%Us	20
0		max	%Us	55
C average coil consur				
	of 50/60Hz coil powered at 50Hz	المناسية.	١/٨	240
		in-rush	VA	210
	of EO/60Hz poil noward at COLL	holding	VA	15
	of 50/60Hz coil powered at 60Hz	عامديس من	١/٨	105
		in-rush	VA VA	195
	of COLIZ poil powered at COLIZ	holding	VA	13
	of 60Hz coil powered at 60Hz	عاميس ما	١/٨	210
		in-rush	VA VA	210
Nonination of haldir - <	20°C 50U=	holding	VA	15 5
Dissipation at holding ≤	ZU C 5UHZ		W	ວ
Max cycles frequency			0) (0) 0 0 /1-	2600
Mechanical operation			cycles/h	3000
perating times				

in AC

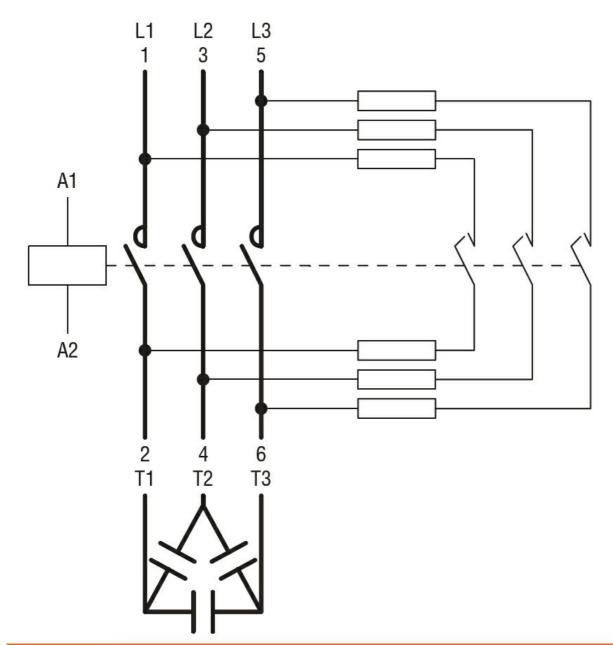
Closing NO



			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				
			min	°C	-50
			max	°C	70
	Storage temperature				
			min	°C	-60
			max	°C	80
Max altitude				m	3000
Resistance & Protection	on .				







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





Product designation			Power contactor
Product type designation			BFK94
Contact characteristics			
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	8
Operational frequency			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		Α	115
Rated operational power 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 value)		Α	950
Breaking capacity at voltage			
	440V	Α	760
	500V	Α	660
	690V	A	475
Resistance per pole (average value)		mΩ	0.6
Power dissipation per pole (average value)			
	Ith	W	7.9
Tightening torque for terminals			
	min	Nm	4
	max	Nm	5
	min	lbin	2.95
	max	lbin	3.69
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbin	0.8
Managed and Consider the second and the	max	Ibin	0.74
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil			0
Flavible w/s to a service as attack	max		2
Flexible w/o lug conductor section	!	na :== 2	1 E
	min	mm²	1.5
Elevible of the senductor costion	max	mm²	35
Flexible c/w lug conductor section	min	mm²	1.5



	max	mm²	35
Power terminal protection according to IEC/EN 60529			IP20 front
Mechanical features			
Operating position			
	normal		Vertical plan ±30°
	allowable		Screw / DIN rail
Fixing			35mm
Weight		g	1090
Conductor section			
AWG/kcmil conductor section			
	max		2
Operations			
Mechanical life		cycles	15000000
Electrical life		cycles	400000
Safety related data			
Performance level B10d according to EN/ISO 13489-1	ا حالت منصب	ovele -	400000
	rated load mechanical load	cycles	400000 15000000
EMC compatibility	medianida 10d0	cycles	yes
AC coil operating			y 0.3
Rated AC voltage at 60Hz		V	24
AC operating voltage		-	
of 60Hz coil powered at 60Hz			
pick-up			
	min	%Us	80
	max	%Us	110
drop-out	_		
	min	%Us	20
AC average coil consumption at 20°C	max	%Us	55
of 60Hz coil powered at 60Hz			
of our 12 con powered at our 12	in-rush	VA	210
	holding	VA	15
Dissipation at holding ≤20°C 50Hz	9	W	5
Max cycles frequency			
Mechanical operation		cycles/h	3600
Operating times			
Average time for Us control			
in AC			
Closing NO	-		4.0
	min	ms	12
Opening NO	max	ms	28
Opening NO	min	ms	8
	max	ms	22
in DC	Пах	1110	
Closing NO			
•	min	ms	40
	max	ms	85
Opening NO			
	min	ms	20
	max	ms	55
UL technical data			

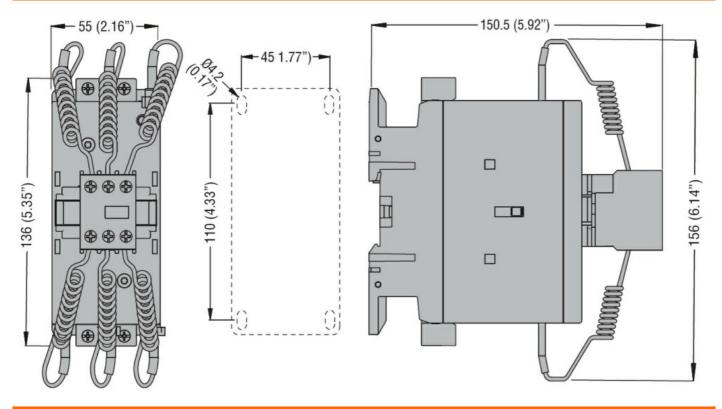




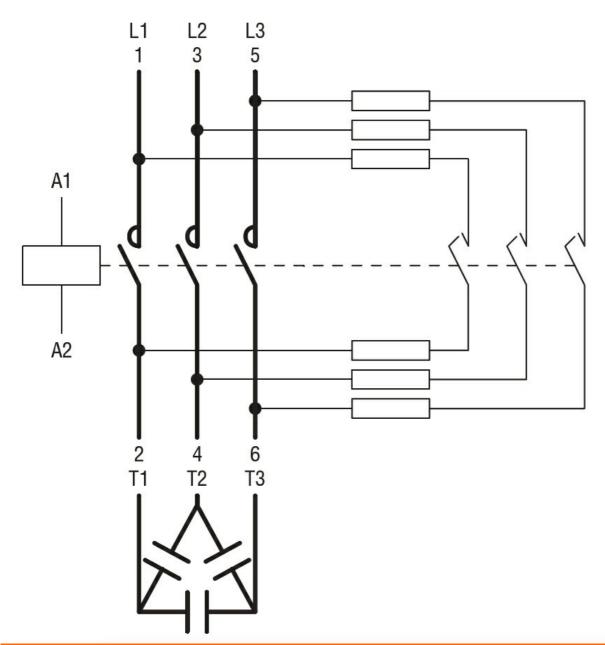
General USE

Contactor

		AC current	Α	115
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			_
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protect	ion			
Pollution degree				3
Dimensions [mm (in)]				







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





Product designation			Power contactor
Product type designation			BFK94
Contact characteristics			
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	8
Operational frequency			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		Α	115
Rated operational power AC-6b (T≤40°C)			
Traise sporadonal perior 710 os (1-10 o)	230V	kvar	34
	400V	kvar	60
	440480V	kvar	75
	690V	kvar	80
Short-time allowable current for 10s (IEC/EN60947-1)	090 V	A	640
		Α	040
Protection fuse	0 (150)		405
	gG (IEC)	A	125
Making capacity (RMS value)		Α	950
Breaking capacity at voltage			
	440V	Α	760
	500V	Α	660
	690V	A	475
Resistance per pole (average value)		mΩ	0.6
Power dissipation per pole (average value)			
	Ith	W	7.9
Tightening torque for terminals			
	min	Nm	4
	max	Nm	5
	min	lbin	2.95
	max	lbin	3.69
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbin	0.8
	max	Ibin	0.74
Max number of wires simultaneously connectable		Nr.	2
Conductor section			_ _
AWG/Kcmil			
, wy O/Aoniii	max		2
Flexible w/o lug conductor section	IIIaX		<u></u>
i levible m/o lag colladolol section	min	mm²	1 5
	min		1.5
Flavilla also han ann duatan an ating	max	mm²	35
Flexible c/w lug conductor section	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° Screw / DIN rail
Fixing			35mm
Weight		g	1090
Conductor section		_	
AWG/kcmil conductor section			
	max		2
Operations			
Mechanical life		cycles	15000000
Electrical life		cycles	400000
Safety related data Performance level P10d according to EN/ISO 12490 1			
Performance level B10d according to EN/ISO 13489-1	rated load	oveloc	400000
	mechanical load	cycles cycles	400000 15000000
EMC compatibility	mediamed lead	Oyoloo	yes
AC coil operating			
Rated AC voltage at 60Hz		V	48
AC operating voltage			_
of 60Hz coil powered at 60Hz			
pick-up			
	min	%Us	80
	max	%Us	110
drop-out		0/11	
	min	%Us	20
AC average coil consumption at 20°C	max	%Us	55
of 60Hz coil powered at 60Hz			
or our iz con powered at our iz	in-rush	VA	210
	holding	VA	15
Dissipation at holding ≤20°C 50Hz	9	W	5
Max cycles frequency			
Mechanical operation		cycles/h	3600
Operating times			
Average time for Us control			
in AC			
Closing NO			
	min	ms	12
On anima NO	max	ms	28
Opening NO	min	me	8
	max	ms ms	22
in DC	шах	1113	
Closing NO			
	min	ms	40
	max	ms	85
Opening NO			
	min	ms	20
	max	ms	55
UL technical data			

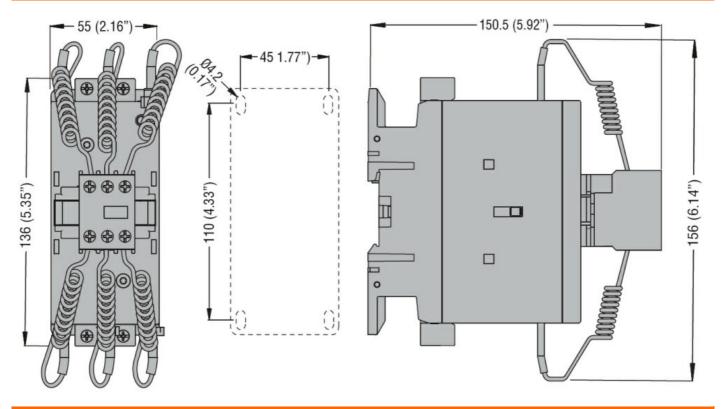




General USE

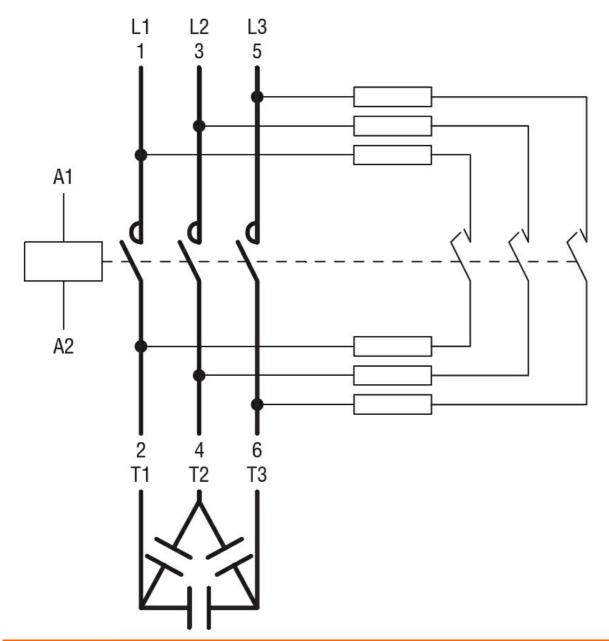
Contactor

		AC current	Α	115
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			_
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protect	ion			
Pollution degree				3
Dimensions [mm (in)]				









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





Product type designation BFK94 Contact characteristics Number of poles Nr. 3 Rated insulation voltage Ui IEC/EN V 690 Rated impulse withstand voltage Uimp kV 8 Operational frequency min Hz 25 max Hz 400 IEC Conventional free air thermal current Ith A 115 Rated operational power 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) A 640 Protection fuse gG (IEC) A 125
Number of poles Nr. 3 Rated insulation voltage Ui IEC/EN V 690 Rated impulse withstand voltage Uimp kV 8 Operational frequency min Hz 25 max Hz 400 IEC Conventional free air thermal current Ith A 115 Rated operational power 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) A 640 Protection fuse
Rated insulation voltage Ui IEC/EN V 690 Rated impulse withstand voltage Uimp kV 8 Operational frequency min Hz 25 max Hz 400 IEC Conventional free air thermal current Ith A 115 Rated operational power AC-6b (T≤40°C) 230V kvar 34 max 400V kvar 60 max 400V kvar 60 max 400V kvar 75 max 690V kvar 80 Short-time allowable current for 10s (IEC/EN60947-1) A 640 Protection fuse
Rated impulse withstand voltage Uimp kV 8 Operational frequency min Hz 25 max Hz 400 IEC Conventional free air thermal current Ith A 115 Rated operational power 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) A 640 Protection fuse A 640
Operational frequency min Hz 25 max Hz 400 IEC Conventional free air thermal current Ith A 115 Rated operational power 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) A 640 Protection fuse A 640
min max Hz hz hz 25 hz IEC Conventional free air thermal current Ith A 115 Rated operational power AC-6b (T≤40°C) 230V kvar 34 hz 440480V kvar 60 hz 440480V kvar 75 hz 690V kvar 80 hz A 640 hz Protection fuse A 640 hz
IEC Conventional free air thermal current Ith A 115 Rated operational power 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) A 640 Protection fuse
IEC Conventional free air thermal current Ith A 115 Rated operational power 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) A 640 Protection fuse A 640
Rated operational power 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) A 640 Protection fuse
230V kvar 34 400V kvar 60 440480V kvar 75 690V kvar 80
A00V kvar 60 440480V kvar 75 690V kvar 80 Short-time allowable current for 10s (IEC/EN60947-1) A 640 Protection fuse
A40480V kvar 75
Short-time allowable current for 10s (IEC/EN60947-1) Protection fuse 690V kvar 80 A 640
Short-time allowable current for 10s (IEC/EN60947-1) Protection fuse A 640
Protection fuse
gG (IEC) A 125
Making capacity (RMS value) A 950
Breaking capacity at voltage
440V A 760
500V A 660
690V A 475
Resistance per pole (average value) $m\Omega$ 0.6
Power dissipation per pole (average value)
Ith W 7.9
Tightening torque for terminals
min Nm 4
max Nm 5
min Ibin 2.95
max Ibin 3.69
Tightening torque for coil terminal
min Nm 0.8
max Nm 1
min Ibin 0.8
max Ibin 0.74
Max number of wires simultaneously connectable Nr. 2
Conductor section
AWG/Kcmil
max 2
Flexible w/o lug conductor section
min mm² 1.5
Flexible c/w lug conductor section min mm² 1.5
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 35mm
Weight		g	1090
Conductor section			
AWG/kcmil conductor section			
	max		2
Operations			
Mechanical life		cycles	15000000
Electrical life		cycles	400000
Safety related data			
Performance level B10d according to EN/ISO 13489-1	ا د دا اد حاد	a a l = =	400000
	rated load	cycles	400000
EMC compatibility	mechanical load	cycles	15000000
EMC compatibility AC coil operating			yes
Rated AC voltage at 60Hz		V	120
AC operating voltage		<u> </u>	120
of 60Hz coil powered at 60Hz			
pick-up			
· ·	min	%Us	80
	max	%Us	110
drop-out			
	min	%Us	20
	max	%Us	55
AC average coil consumption at 20°C			
of 60Hz coil powered at 60Hz	1	١./٨	040
	in-rush	VA	210
Dissipation at holding ≤20°C 50Hz	holding	VA W	15 5
Max cycles frequency		VV	3
Mechanical operation		cycles/h	3600
Operating times		<i>ay 610 6/11</i>	
Average time for Us control			
in AC			
Closing NO			
	min	ms	12
	max	ms	28
Opening NO			
	min	ms	8
	max	ms	22
in DC			
Closing NO	min	me	40
	max	ms ms	85
Opening NO	IIIdX	1113	00
Opening NO	min	ms	20
	max	ms	55
UL technical data			

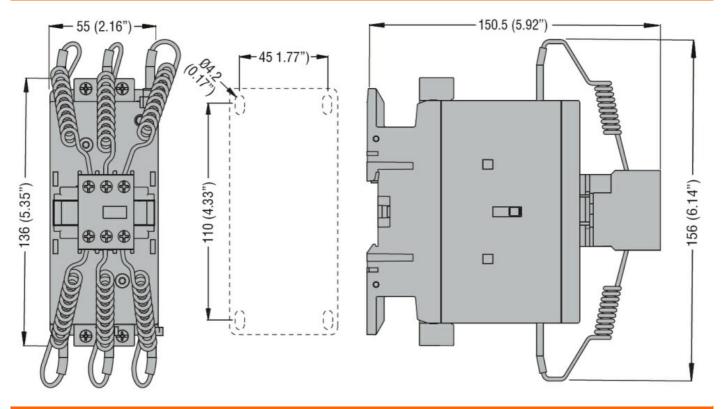




General USE

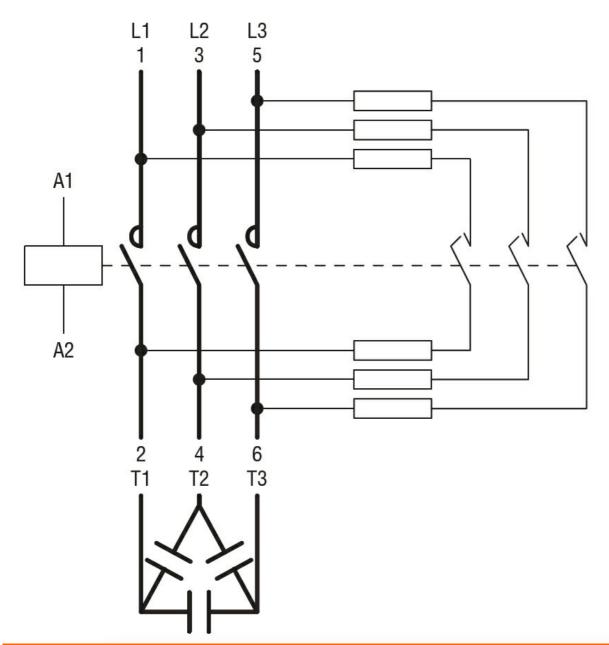
Contactor

		AC current	Α	115
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protect	tion			
Pollution degree				3
Dimensions [mm (in)]				









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





Product designation				Power contactor
Product type designat				BFK94
Contact characteristic	S			
Number of poles	18150/51		Nr.	3
Rated insulation voltage	-		V	690
Rated impulse withsta			kV	8
Operational frequency	1			
		min	Hz	25
		max	Hz	400
IEC Conventional free air thermal current Ith			A	115
Rated operational power AC-6b (T≤40°C)				
		230V	kvar	34
		400V	kvar	60
		440480V	kvar	75
		690V	kvar	80
Short-time allowable of	current for 10s (IEC/EN60947-1)		Α	640
Protection fuse				
		gG (IEC)	Α	125
Making capacity (RMS	value)		Α	950
Breaking capacity at v	oltage			
	-	440V	Α	760
		500V	Α	660
		690V	Α	475
Resistance per pole (a	average value)		mΩ	0.6
Power dissipation per pole (average value)				
		Ith	W	7.9
Tightening torque for terminals				
		min	Nm	4
		max	Nm	5
		min	lbin	2.95
		max	lbin	3.69
Tightening torque for o	coil terminal			
3 3 1 1 1 1 1 1 1		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		
		min	mm²	1.5
		max	mm²	35
	Flexible c/w lug conductor section	παλ	111111	
	1 IONIDIO ON TAY CONTACTOR SECTION	min	mm²	1.5
		.,,,,,,		



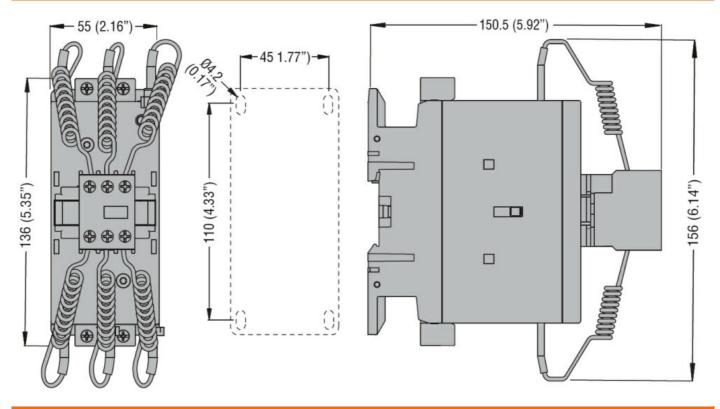
·			max	mm²	35
Power terminal protect	ion according to IEC/E	N 60529			IP20 front
Mechanical features					
Operating position			normal allowable		Vertical plan ±30°
Fixing			dilowdole		Screw / DIN rail 35mm
Weight				g	1090
Conductor section					
	AWG/kcmil conducto	or section	max		2
Operations					
Mechanical life				cycles	15000000
Electrical life				cycles	400000
Safety related data					
Performance level B10	d according to EN/ISO	O 13489-1			
			rated load	cycles	400000
=110			mechanical load	cycles	15000000
EMC compatibility					yes
AC coil operating	N. I.—			\ /	000
Rated AC voltage at 60 AC operating voltage	JHZ			V	220
AC operating voltage	of 60Hz coil noworos	Lat 60Uz			
	of 60Hz coil powered	pick-up			
		ρισκ-αρ	min	%Us	80
			max	%Us	110
		drop-out		,,,,,	
		•	min	%Us	20
			max	%Us	55
AC average coil consu	mption at 20°C				
	of 60Hz coil powered	l at 60Hz			
			in-rush	VA	210
			holding	VA	15
Dissipation at holding ≤	≦20°C 50Hz			W	5
Max cycles frequency				1 //	0000
Mechanical operation				cycles/h	3600
Operating times Average time for Us co	entrol				
Average time for US Co	in AC				
	III AO	Closing NO			
		0.00.119 140	min	ms	12
			max	ms	28
		Opening NO		-	
		. •	min	ms	8
			max	ms	22
	in DC				
		Closing NO			
			min	ms	40
		0 1 1/2	max	ms	85
		Opening NO			0.0
			min	ms	20
UL technical data			max	ms	55
OL technicardata					



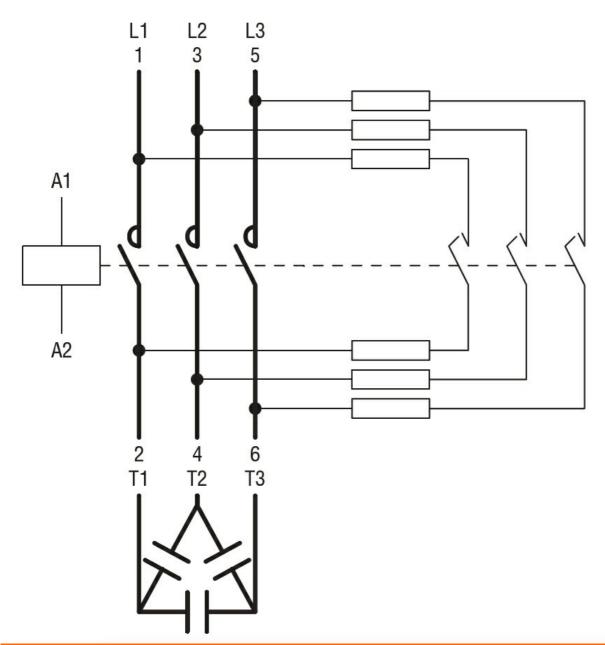
General USE

Contactor

		AC current	Α	115
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protect	ion			
Pollution degree				3
Dimensions [mm (in)]				







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





Product designation				Power contactor
Product type designation				BFK94
Contact characteristics				
Number of poles			Nr.	3
Rated insulation voltag			V	690
Rated impulse withstar			kV	8
Operational frequency				
		min	Hz	25
		max	Hz	400
IEC Conventional free	air thermal current Ith		Α	115
Rated operational pow	rer AC-6b (T≤40°C)			
		230V	kvar	34
		400V	kvar	60
		440480V	kvar	75
		690V	kvar	80
Short-time allowable co	urrent for 10s (IEC/EN60947-1)		Α	640
Protection fuse	,			
		gG (IEC)	Α	125
Making capacity (RMS	value)	90 (120)	A	950
Breaking capacity at vo	•			
breaking capacity at ve	nage	440V	Α	760
		500V	A	660
		690V	A	475
Resistance per pole (a	verage value)	030 V	mΩ	0.6
Power dissipation per			11122	0.0
rower dissipation per p	Dole (average value)	146	14/	7.0
Tielete eine ete eeu e feet	- martin alla	Ith	W	7.9
Tightening torque for te	erminais		N1	4
		min	Nm	4
		max	Nm	5
		min	Ibin	2.95
		max	Ibin	3.69
Tightening torque for c	oil terminal			
		min	Nm	0.8
		max	Nm	1
		min	lbin	0.8
		max	lbin	0.74
	imultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		2
	Flexible w/o lug conductor section			_
		min	mm²	1.5
		max	mm²	35
	Flexible c/w lug conductor section			
	-	min	mm²	1.5



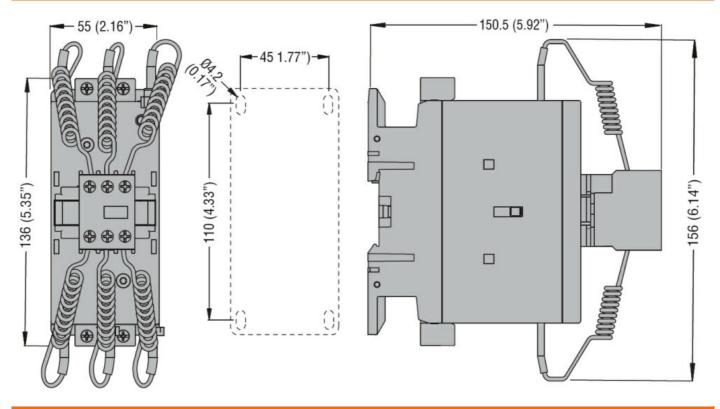
	max	mm²	35
Power terminal protection according to IEC/EN 60529			IP20 front
Mechanical features			
Operating position			
	normal		Vertical plan
	allowable		±30° Screw / DIN rail
Fixing			35mm
Weight		g	1090
Conductor section			
AWG/kcmil conductor section			
	max		2
Operations			
Mechanical life		cycles	15000000
Electrical life		cycles	400000
Safety related data			
Performance level B10d according to EN/ISO 13489-1	rated load	ovolca	400000
	mechanical load	cycles cycles	1500000
EMC compatibility	medianical load	cycles	yes
AC coil operating			yes
Rated AC voltage at 60Hz		V	230
AC operating voltage			
of 60Hz coil powered at 60Hz			
pick-up			
	min	%Us	80
	max	%Us	110
drop-out	_		
	min	%Us	20
AC average coil consumption at 20°C	max	%Us	55
of 60Hz coil powered at 60Hz			
or our 12 con powered at our 12	in-rush	VA	210
	holding	VA	15
Dissipation at holding ≤20°C 50Hz		W	5
Max cycles frequency			
Mechanical operation		cycles/h	3600
Operating times			
Average time for Us control			
in AC			
Closing NO			
	min	ms	12
Onening NO	max	ms	28
Opening NO	min	me	8
	max	ms ms	22
in DC	IIIdX	1113	<i></i>
Closing NO			
	min	ms	40
	max	ms	85
Opening NO			
	min	ms	20
	max	ms	55
UL technical data			



General USE

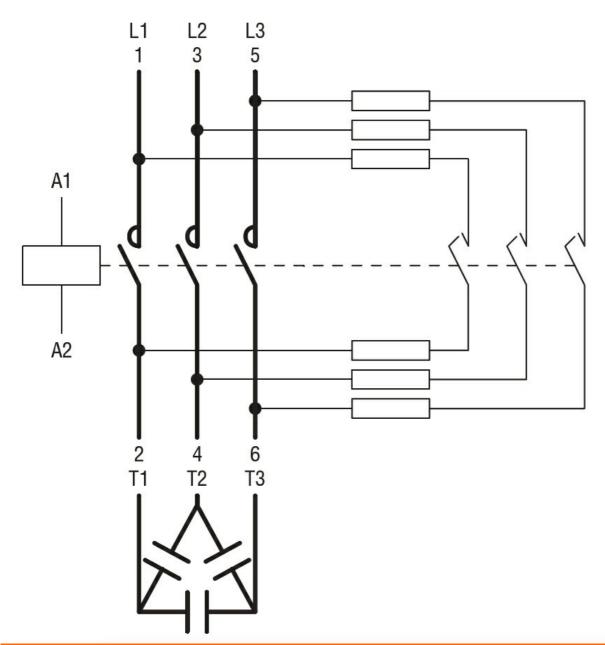
Contactor

		AC current	Α	115
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protect	ion			
Pollution degree				3
Dimensions [mm (in)]				



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





Product designation				Power contactor
Product type designat				BFK94
Contact characteristic	S			
Number of poles	18150/51		Nr.	3
Rated insulation voltage	-		V	690
Rated impulse withsta			kV	8
Operational frequency	1			
		min	Hz	25
		max	Hz	400
	air thermal current Ith		A	115
Rated operational pov	ver AC-6b (T≤40°C)			
		230V	kvar	34
		400V	kvar	60
		440480V	kvar	75
		690V	kvar	80
Short-time allowable of	current for 10s (IEC/EN60947-1)		Α	640
Protection fuse				
		gG (IEC)	Α	125
Making capacity (RMS	value)		Α	950
Breaking capacity at v	oltage			
	-	440V	Α	760
		500V	Α	660
		690V	Α	475
Resistance per pole (a	average value)		mΩ	0.6
Power dissipation per	pole (average value)			
		Ith	W	7.9
Tightening torque for t	erminals			
		min	Nm	4
		max	Nm	5
		min	lbin	2.95
		max	lbin	3.69
Tightening torque for o	coil terminal			
3 3 1 1 1 1 1 1 1		min	Nm	0.8
		max	Nm	1
		min	lbin	0.8
		max	Ibin	0.74
Max number of wires	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		2
	Flexible w/o lug conductor section	max		
		min	mm²	1.5
		max	mm²	35
	Flexible c/w lug conductor section	παλ	111111	
	1 IONIDIO O, W Tag Conductor Section	min	mm²	1.5
		.,,,,,,		



			max	mm²	35
Power terminal protect	ion according to IEC/E	EN 60529			IP20 front
Mechanical features					
Operating position			normal allowable		Vertical plan ±30°
Fixing			иножимс		Screw / DIN rail 35mm
Weight				g	1090
Conductor section					
	AWG/kcmil conducto	or section	max		2
Operations					
Mechanical life				cycles	15000000
Electrical life				cycles	400000
Safety related data					
Performance level B10	d according to EN/IS	O 13489-1			
			rated load	cycles	400000
			mechanical load	cycles	15000000
EMC compatibility					yes
AC coil operating					100
Rated AC voltage at 60	JHZ			V	460
AC operating voltage	of COUT and powers	d at 60Uz			
	of 60Hz coil powered	pick-up			
		ріск-ир	min	%Us	80
			max	%Us	110
		drop-out	THOX	7000	
			min	%Us	20
			max	%Us	55
AC average coil consu	mption at 20°C				
	of 60Hz coil powered	d at 60Hz			
			in-rush	VA	210
-			holding	VA	15
Dissipation at holding ≤	≦20°C 50Hz			W	5
Max cycles frequency					
Mechanical operation				cycles/h	3600
Operating times	untrol				
Average time for Us co	in AC				
	шдо	Closing NO			
		Cidding 140	min	ms	12
			max	ms	28
		Opening NO		-	
		. •	min	ms	8
			max	ms	22
	in DC				
		Closing NO			
			min	ms	40
		0 1 115	max	ms	85
		Opening NO			00
			min	ms	20
UL technical data			max	ms	55
or rechnical data					

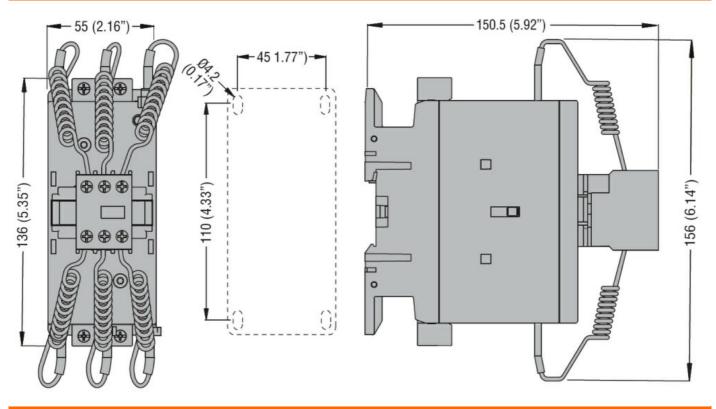




General USE

Contactor

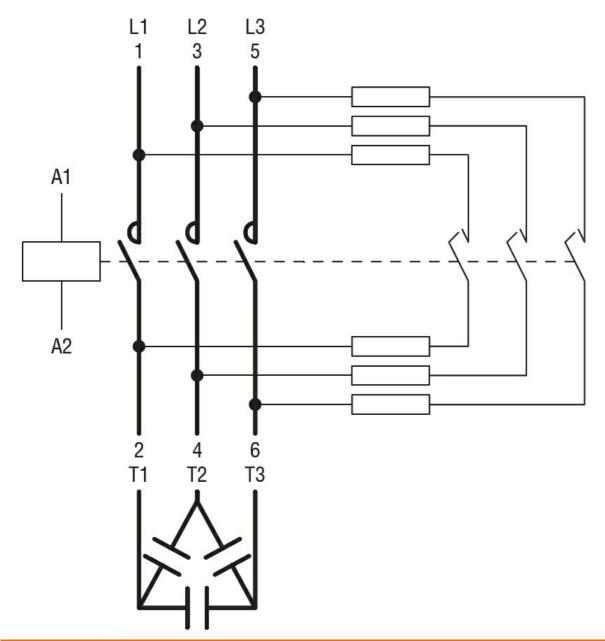
		AC current	Α	115
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protect	tion			
Pollution degree				3
Dimensions [mm (in)]				



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





Product designation				Power contactor
Product type designation				BFK94
Contact characteristics				
Number of poles			Nr.	3
Rated insulation voltag			V	690
Rated impulse withstar			kV	8
Operational frequency				
		min	Hz	25
		max	Hz	400
IEC Conventional free	air thermal current Ith		Α	115
Rated operational pow	rer AC-6b (T≤40°C)			
		230V	kvar	34
		400V	kvar	60
		440480V	kvar	75
		690V	kvar	80
Short-time allowable co	urrent for 10s (IEC/EN60947-1)		Α	640
Protection fuse	,			
		gG (IEC)	Α	125
Making capacity (RMS	value)	90 (120)	A	950
Breaking capacity at vo	•			
breaking capacity at ve	nage	440V	Α	760
		500V	A	660
		690V	A	475
Resistance per pole (a	verage value)	030 V	mΩ	0.6
Power dissipation per			11122	0.0
rower dissipation per p	Dole (average value)	146	14/	7.0
Tielete eine ete eeu e feet	- martin alla	Ith	W	7.9
Tightening torque for te	erminais		N1	4
		min	Nm	4
		max ·	Nm	5
		min	Ibin	2.95
		max	Ibin	3.69
Tightening torque for c	oil terminal			
		min	Nm	0.8
		max	Nm	1
		min	lbin	0.8
		max	lbin	0.74
	imultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		2
	Flexible w/o lug conductor section			_
		min	mm²	1.5
		max	mm²	35
	Flexible c/w lug conductor section			
	-	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° Screw / DIN rail
Fixing			35mm
Weight		g	1090
Conductor section			
AWG/kcmil conductor section			
	max		2
Operations			
Mechanical life		cycles	15000000
Electrical life		cycles	400000
Safety related data			
Performance level B10d according to EN/ISO 13489-1			400000
	rated load	cycles	400000
EMC compatibility	mechanical load	cycles	15000000
EMC compatibility AC coil operating			yes
Rated AC voltage at 60Hz		V	575
AC operating voltage		<u>v</u>	0,0
of 60Hz coil powered at 60Hz			
pick-up			
	min	%Us	80
	max	%Us	110
drop-out			
	min	%Us	20
-	max	%Us	55
AC average coil consumption at 20°C			
of 60Hz coil powered at 60Hz	2 1	١./٨	040
	in-rush	VA	210
Dissipation at holding ≤20°C 50Hz	holding	VA W	<u>15</u>
Max cycles frequency		VV	3
Mechanical operation		cycles/h	3600
Operating times		0,0100/11	
Average time for Us control			
in AC			
Closing NO			
	min	ms	12
	max	ms	28
Opening NO			
	min	ms	8
	max	ms	22
in DC			
Closing NO		ma	40
	min	ms ms	
Opening NO	max	ms	85
Opening NO	min	ms	20
	max	ms	55
UL technical data			

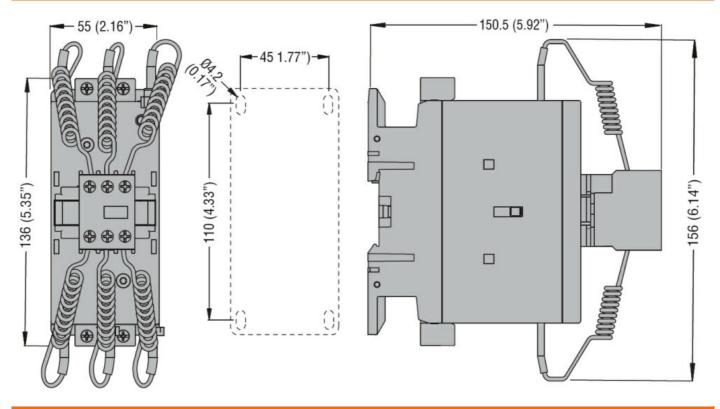




General USE

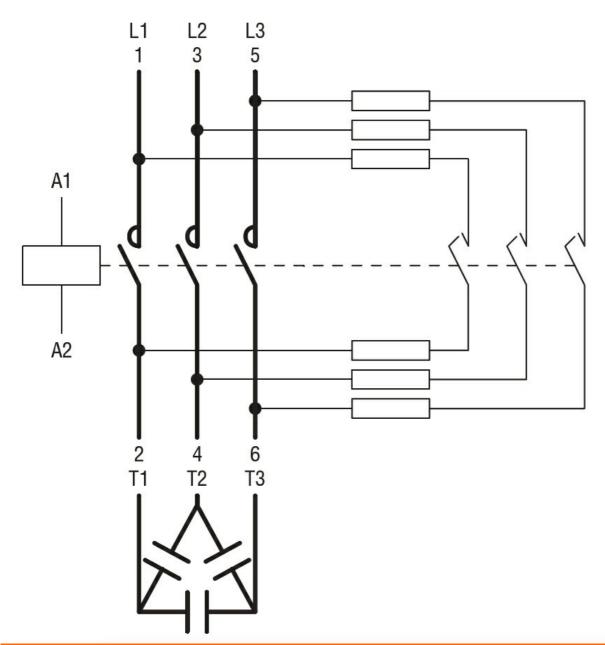
Contactor

		AC current	Α	115
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protect	tion			
Pollution degree				3
Dimensions [mm (in)]				



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