





Product designation			Power contactor
Product type designation			BFK50
Contact characteristics		N In	2
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	90
Rated operational power AC-6b (T≤40°C)			
	230V	kvar	22
	400V	kvar	40
	440480V	kvar	41
	690V	kvar	46
Short-time allowable current for 10s (IEC/EN60947-1)		Α	400
Protection fuse			
	gG (IEC)	Α	80
Making capacity (RMS value)		Α	500
Breaking capacity at voltage			
	440V	Α	400
	500V	Α	352
	690V	Α	312
Resistance per pole (average value)		mΩ	0.8
Power dissipation per pole (average value)			
, ,	Ith	W	6.5
Tightening torque for terminals	<u> </u>		
	min	Nm	4
	max	Nm	5
	min	Ibin	2.95
	max	Ibin	3.69
Tightening torque for coil terminal	max	10111	0.00
rightening torque for conferminal	min	Nm	0.8
	max	Nm	1
	min	Ibin	0.8
	max	Ibin	0.74
Max number of wires simultaneously connectable	IIIdX	Nr.	2
Conductor section		INI.	
AWG/Kcmil			2
Clavible m/s has an elected a settle	max		2
Flexible w/o lug conductor section			4.5
	min	mm²	1.5
F1 11 / 1 2 2	max	mm²	35
Flexible c/w lug conductor section		2	4.5
	min	mm²	1.5





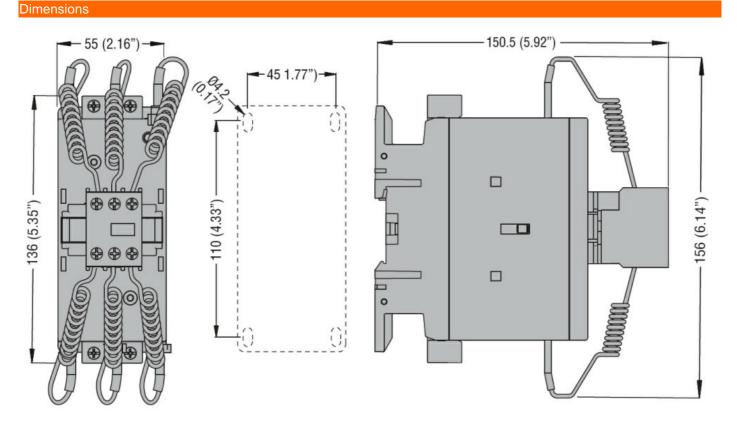
		max	mm²	35
	tion according to IEC/EN 60529			IP20 front
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rai
144 - 1 - 1 - 1				35mm
Weight			g	1090
Conductor section	ANA/O/I			
	AWG/kcmil conductor section			0
Operations		max		2
Operations				45000000
Mechanical life			cycles	15000000
Electrical life			cycles	400000
Safety related data	2d appording to FN/ISO 42400.4			
-enormance ievei B10	Od according to EN/ISO 13489-1	المملمة	ovele e	400000
		rated load mechanical load	cycles	400000
EMC compatibility		mechanicai ioau	cycles	15000000
EMC compatibility AC coil operating				yes
Rated AC voltage at 50	0/60∐-z		V	400
AC operating voltage	0/00112		V	400
to operating voltage	of 50/60Hz coil powered at 50Hz			
	pick-up			
	рюк-ир	min	%Us	80
		max	%Us	110
	drop-out	тах	7000	110
	arop cut	min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz	<u></u>		
	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			
		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				

in AC

Closing NO

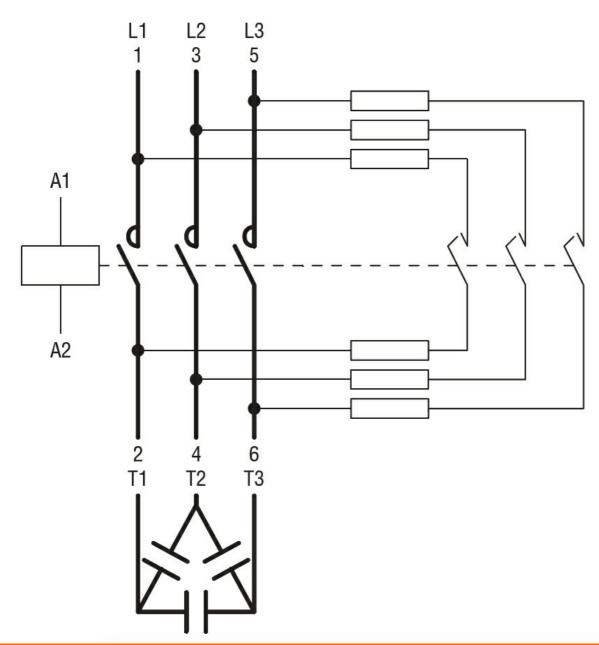


			min	ms	12
			max	ms	28
		Opening NO			
			min	ms	8
			max	ms	22
	in DC				-
		Closing NO			
		Ü	min	ms	40
			max	ms	85
		Opening NO			
		, -	min	ms	20
			max	ms	55
UL technical data					
General USE					
	Contactor				
			AC current	Α	90
Ambient conditions					
Temperature					
	Operating temperature				
			min	°C	-50
			max	°C	70
	Storage temperature				
			min	°C	-60
			max	°C	80
Max altitude				m	3000
Resistance & Protection	on				
Pollution degree					
F Ullution acaree					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

Certificates

CCC

cULus

ETIM classification

ETIM 8.0

EC001079 -Capacitor contactor