





Product designation				Power contactor
Product type designati	on			BFK38
Contact characteristics	.			
Number of poles			Nr.	3
Rated insulation voltage Ui IEC/EN			V	690
Rated impulse withstar		kV	6	
Operational frequency				
		min	Hz	25
		max	Hz	400
IEC Conventional free air thermal current Ith			Α	56
Rated operational pow	ver AC-6b (T≤40°C)			
		230V	kvar	17
		400V	kvar	30
		440480V	kvar	33
		690V	kvar	36
Short-time allowable current for 10s (IEC/EN60947-1)			Α	320
Protection fuse				_
		gG (IEC)	Α	63
Making capacity (RMS	value)		Α	380
Breaking capacity at vo	oltage			
		440V	Α	304
		500V	Α	240
		690V	Α	192
Resistance per pole (a	verage value)		mΩ	2
Power dissipation per pole (average value)				
		Ith	W	6
Tightening torque for terminals				
		min	Nm	2.5
		max	Nm	3
		min	lbin	1.8
		max	lbin	2.2
Tightening torque for c	oil terminal			
		min	Nm	0.8
		max	Nm	1
		min	lbin	0.59
		max	lbin	0.74
Max number of wires s	imultaneously connectable		Nr.	2
Conductor section	·			_
	AWG/Kcmil			
		max		6
	Flexible w/o lug conductor section			
	ŭ	min	mm²	2.5
		max	mm²	16
	Flexible c/w lug conductor section			
		min	mm²	1



		max	mm²	10
	Flexible with insulated spade lug conducto		2	
		min	mm²	1
		max	mm²	10
	tion according to IEC/EN 60529			IP20 when properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	400
Conductor section				
	AWG/kcmil conductor section			
		max		6
Operations				
Mechanical life			cycles	20000000
Electrical life			cycles	1400000
Safety related data				
Performance level B1	0d according to EN/ISO 13489-1			
		rated load	cycles	400000
		mechanical load	cycles	20000000
EMC compatibility				yes
AC coil operating	0 (00)			000
Rated AC voltage at 5	0/60Hz		V	230
AC operating voltage	(50/00LL " L-1 50LL			
	of 50/60Hz coil powered at 50Hz			
	pick-up	min	%Us	80
		max	%Us	110
	drop-out	Παλ	/003	110
	αιορ-οαι	min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz	тах	7000	
	pick-up			
	F.30 3.P	min	%Us	85
		max	%Us	110
	drop-out			
	·	min	%Us	20
		max	%Us	55
AC average coil consu	·			
	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
Birth C. C. C.	400°O FOLL	holding	VA	9
Dissipation at holding	≤20°C 50HZ		W	2.5
Max cycles frequency			avels://	2000
Mechanical operation			cycles/h	36UU

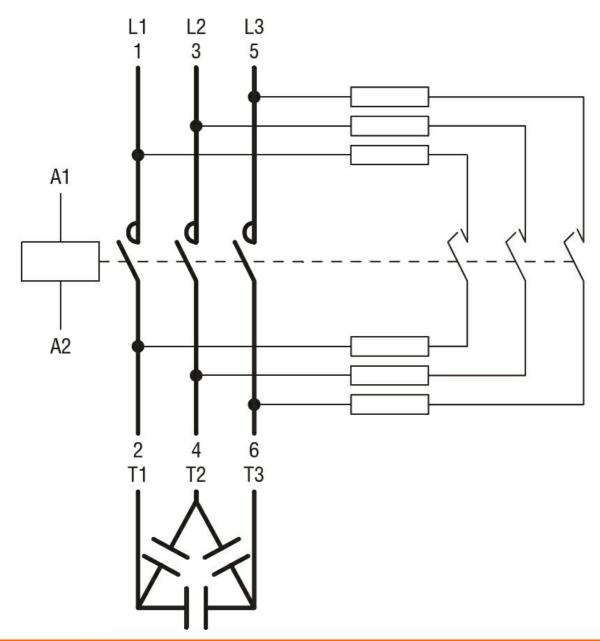


Operating times Average time for Us control in AC Closing NO 8 min ms max ms 24 Opening NO 5 min ms 15 max ms Closing NC 9 min ms max ms 20 UL technical data General USE Contactor AC current Α 56 Ambient conditions Temperature Operating temperature °C -50 min °C 70 max Storage temperature min °C -60 °C 80 max Max altitude m 3000 Resistance & Protection Pollution degree 3 **Dimensions** 125.5 (4.94")7.9 (0.57)(0.31")П 35 (1.38")

Wiring diagrams

- 45 (1.77")





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