ENERGY AND AUTOMATION

Параметры THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 50/60HZ, 230VAC, 1NC AUXILIARY CONTACT



Product designation			Power contactor
Product type designation			BF09
Contact characteristics			
Number of poles		nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency			
	min	Hz	25
	max	Hz	400
Conventional free air thermal current Ith IEC/EN		Α	25
Operational current le			
	AC-1 (≤40°C)	Α	25
	AC-3 (≤440V ≤55°C)	Α	9
	AC-4 (400V)	Α	4.9
Rated operational power AC-1 (T≤40°C)			
	230V	kW	9.5
	400V	kW	16
	500V	kW	21
	690V	kW	27
Rated operational power AC-3 (T≤55°C)			
	230V	kW	2.2
	400V	kW	4.2
	415V	kW	4.5
	440V	kW	4.8
	500V	kW	5.5
	690V	kW	7.5
Short-time allowable current for 10s (IEC/EN60947-1)		Α	150
Protection fuse			
	gG (IEC)	Α	25
	aM (IEC)	Α	10
Making capacity (RMS value)		Α	90
Breaking capacity at voltage			
	440V	Α	72
	500V	Α	72
	690V	Α	71
Resistance per pole (average value)		mΩ	2.5
Power dissipation per pole (average value)			
	Ith	W	1.6
	AC3	W	0.2
Tightening torque for terminals	_		
	min	Nm	1.5
	max	Nm	1.8
	min	Ibin	1.1
Tightening torque for coil terminal	max	Ibin	1.5



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		min	Nm	0.8
		max	Nm	1
		min	lbft	0.8
May number of wires	imultana ayah cannaatahla	max	Ibft	0.74
Conductor section	imultaneously connectable		nr.	
Conductor Section	AWG			
	AWG	/kcmil min		16
		/kcmil max		10
	Flexible w/o lug conductor section	/noniii max		
	. Termine the raig contactor economic	min	mm²	1
		max	mm²	6
	Flexible c/w lug conductor section			
	-	min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug co	nductor section		
		min	mm²	1
		max	mm²	4
	tion according to IEC/EN 60529			IP20 when wired
Auxiliary contact chara	cteristics			
Type of contact				1 NC
Thermal current Ith			Α	10
IEC/EN 60947-5-1 des				A600 - P600
Operational current le			Α	25
Operating current AC1	5	0001/		0
		230V 400V	A	3
		500V	A A	1.9 1.4
Operating current DC1	2	300 V		1.4
Operating current DC	2	110V	Α	5.7
Operating current DC1	3	1100		3.1
Operating outlent Do I		24V	Α	5.7
		48V	A	2.9
		60V	Α	2.3
		110V	Α	Screw / DIN rail 35mm
		125V	Α	0.6
		220V	A	0.2
		600V	A	1.2
Ambient conditions		333.		
Temperature				
·	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Operational position				
		Operating position normal		vertical plan
		Operating position allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight				0.356
• • • • • • • • • • • • • • • • • • •			g	0.000

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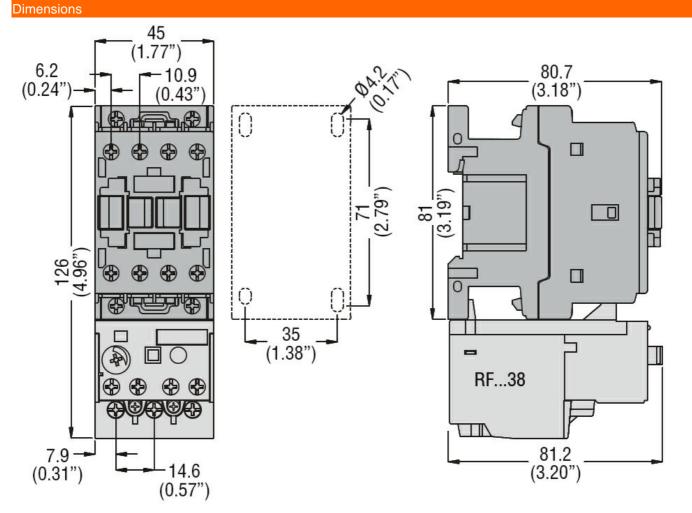
Operations				
Mechanical life			Cycles	20000000
Electrical life			Cycles	2000000
Safety related data				
	0d according to EN/ISO 13489-1			
		rated load	Cicli	2000000
		mechanical load	Cicli	20000000
Mirror contats according	ng to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating				
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up	_		
		min	%Us	0.8
		max	%Us	1.1
	drop-out	•	0/11-	0.0
		min	%Us	0.2
	of EO/COLIZ acil powered at COLIZ	max	%Us	0.55
	of 50/60Hz coil powered at 60Hz pick-up			
	ріск-ир	min	%Us	0.85
		max	%Us	1.1
	drop-out	IIIdA	/003	1.1
	diop out	min	%Us	0.2
		max	%Us	0.55
	of 60Hz coil powered at 60Hz		,,,,,	
	pick-up			
	1 - 1	min	%Us	0.8
		max	%Us	1.1
	drop-out			
		min	%Us	0.2
		max	%Us	0.55
AC operating voltage				
	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	6.5
	of 60Hz coil powered at 60Hz		3.74	75
		in-rush	VA	75
Dissipation at halding	<20°C FOLI-	holding	VA	9
Dissipation at holding:	≥∠U U DU⊓∠		W	2.5
Max cycles frequency			Cycloo/b	3600
Mechanical operations Operating times	·		Cycles/h	3000
Average time for Us co	ontrol			
Average unite 101 05 CC	in AC			
	Closing NO			
	Giosing NO	min	ms	8
		max	ms	24
	Opening NO	max	1113	
	5-5	min	ms	10
		max	ms	20

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	Closing NC			
	mi	n	ms	14
	ma	X	ms	28
	Opening NC			
	mi	n	ms	7
	ma	X	ms	18
UL technical data				
Full-load current (FLA) for three-phase AC mot	or			
	at 480\	V	Α	7.6
	at 600\	V	Α	0.375
Yielded mechanical performance for				
for single-phase AC m	otor			
	Yielded mechanical performance 110/120	VC	hp	0.75
	Yielded mechanical performance 230\	V	hp	2
for three-phase AC mo	otor			
	Yielded mechanical performance 200/20	8V	hp	3
	Yielded mechanical performance 220/23	0V	hp	3
	Yielded mechanical performance 460/48	0V	hp	5
	Yielded mechanical performance 575/60	0V	hp	7.5
Contact rating of auxiliary contacts according to UL			A600 - P600	
General USE				

Contactor

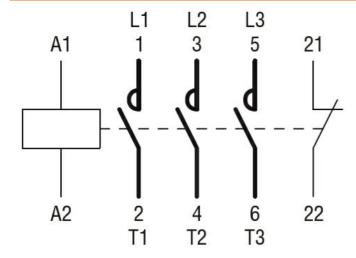
	AC current	А	25
Other features			
Pollution degree			3



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Wiring diagrams



Certifications and compliance

Certifications

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN 60947-1

IEC/EN 60947-4-1

UL 60947-1

UL 60947-4-1

Compliance

CCC

cULus

EAC

ETIM 6 classification

EC000066 - Power contactor, AC switching