



Product designation Product type designation			Power contactor BF09
Contact characteristics			
Number of poles		nr.	3
Rated insulation voltage Ui		V	690
Rated impulse withstand voltage Uimp		kV	6
Operating frequency			
	Operational frequency min	Hz	25
	Operational frequency max	Hz	400
Conventional free air thermal current Ith		Α	25
Operating current			
. 0	Operational current AC1 (≤40°C)	Α	25
Ор	erational current AC3 (≤440V ≤55°C)	Α	9
·	Operational current AC4 (400V)	Α	4.9
Rated operational power AC1 (T≤40°C)			
	230V	kW	9.5
	400V	kW	16
	500V	kW	21
	690V	kW	27
Rated operational power AC3 (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			
	Breaking capacity 440V	Α	72
	Breaking capacity 500V	Α	72
	Breaking capacity 690V	Α	71
Resistance per pole (average value)		mΩ	2.5
Power dissipation per pole (average value)			
Powe	er dissipation pole (average value) Ith	W	1.6
	AC3	W	0.2
Tightening torque for terminals			
	min	Nm	1.5
	max	Nm	1.8
	min	lbft	1.1
	max	lbft	1.5



		min	Nm	0.8
		max	Nm	1
		min	lbft	0.8
may number of wires	oimultana ayaly aanna atabla	max	Ibft	0.74
Conductor section	simultaneously connectable		nr.	
Conductor Section	AWG			
	AWG	min		16
		max		10
	Flexible w/o lug conductor section	Пах		10
	r loxible ti/e lag corrector coolien	min	mm²	1
		max	mm²	6
	Flexible c/w lug conductor section			
	5	min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor section			
		min	mm²	1
		max	mm²	4
Power terminal protect	ction according to IEC/EN 60529			IP20 when wired
Auxiliary contact chara	acteristics			
Type of contact				1 NC
Thermal current Ith			Α	10
IEC/EN 60947-5-1 de				A600 - P600
Operational current A			Α	25
Operating current AC	15			
		230V	Α	3
		400V	Α	1.9
		500V	Α	1.4
Operating current DC	12			
		110V	A	5.7
Operating current DC	13			
		24V	Α	5.7
		48V	Α	2.9
		60V	Α	2.3
		110V	Α	Screw / DIN rail 35mm
		125V	Α	0.6
		220V	Α	0.2
		600V	Α	1.2
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Operating position				Mantiactul
		normal		Vertical plan
		allowable		±30°
Mounting				Screw / DIN rail
			~	35mm 0.36
Weight			g	U.30



Operations				
Mechanical life			Cycles	20000000
Electrical life			Cycles	2000000
Safety related data			2) 0.00	
•	0d according to EN/ISO 13489-1			
	-	rated load	Cicli	2000000
		mechanical load	Cicli	20000000
Mirror contats accordi	ng to IEC/EN 609474-4-1			yes
EMC compatibility				yes
C coil operating				
C operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	0.8
		max	%Us	1.1
	drop-out	i	0/116	0.0
		min	%Us	0.2
	of 50/60Hz coil powered at 60Hz	max	%Us	0.55
	pick-up			
	рюк-ир	min	%Us	0.85
		max	%Us	1.1
	drop-out		,,,,,	
	•	min	%Us	0.2
		max	%Us	0.55
	of 60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	0.8
		max	%Us	1.1
	drop-out			
		min	%Us	0.2
		max	%Us	0.55
C operating voltage				
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	75
	of EO/GOLLT poil noward of COLLT	holding	VA	9
	of 50/60Hz coil powered at 60Hz	in-rush	VA	70
		holding	VA VA	7.0 6.5
	of 60Hz coil powered at 60Hz	Holding	V/\	0.0
	or our iz don powered at our iz	in-rush	VA	75
		holding	VA	9
Dissipation at holding	≤20°C 50Hz		W	2.5
OC coil operating				
C rated control voltage	ge			
·	_	max	V	480
C operating voltage				
verage coil consuption	on ≤20°C			
-		in-rush	W	5.4
		holding	W	2.4
Max cycles frequency				
lechanical operations	3		Cycles/h	3600
perating times				
verage time for Us co	ontrol			

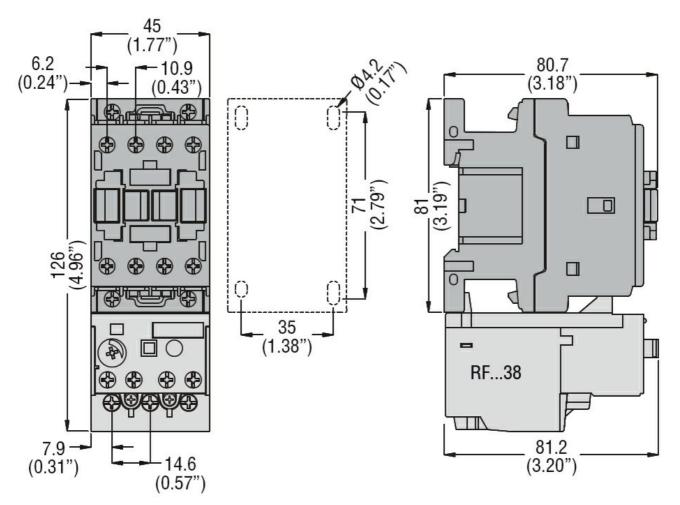




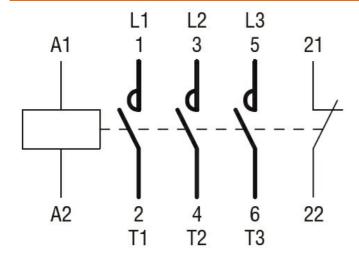
in A	VC			
	Closing NO			
		min	ms	8
		max	ms	24
	Opening NO			
		min	ms	10
		max	ms	20
	Closing NC			
		min	ms	14
		max	ms	28
	Opening NC			
		min	ms	7
		max	ms	18
UL technical data				
Full-load current (FLA) for the	rree-phase AC motor		_	
		at 480V	Α	7.6
		at 600V	Α	0.375
Yielded mechanical perform				
for	single-phase AC motor			
		at 110/120V	hp	0.75
		at 230V	hp	2
for	three-phase AC motor			•
		at 200/208V	hp	3
		at 220/230V	hp	3
		at 460/480V	hp	5
Out to the first of the Piece	- de de la companya de LIII	at 575/600V	hp	7.5
Contact rating of auxiliary co	ontacts according to UL			A600 - P600
General USE	at a star a			
Cor	ntactor	10	۸	0.5
Other feetures		AC current	Α	25
Other features				
Pollution degree				3
Dimensions				

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 50/60HZ, 24VAC, 1NC AUXILIARY CONTACT



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



BF0901A024

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 50/60HZ, 24VAC, 1NC AUXILIARY CONTACT

CCC		
ULus		
= 4 C		

ETIM 6 classification

EC000066 - Power contactor, AC switching