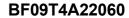


FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 25A, AC COIL 60HZ, 220VAC



Product designation Product type designation			Power contactor BF09
Contact characteristics			
Number of poles		Nr.	4
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		Α	25
Operational current le			
	AC-1 (≤40°C)	Α	25
	AC-1 (≤55°C)	Α	20
	AC-1 (≤70°C)	Α	18
	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
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
	≤24V	Α	15
	48V	Α	13
	75V	Α	12
	110V	Α	6
	220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
	≤24V	Α	18
	48V	Α	18
	75V	Α	17
	110V	Α	12
	220V	Α	1
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
·	≤24V	Α	20
	48V	Α	20
	75V	Α	20
	110V	Α	15
	220V	Α	10
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
·	≤24V	Α	20
	48V	Α	20
	75V	Α	20
	110V	Α	16
	220V	Α	12





FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 25A, AC COIL 60HZ,

IEC max current le in l	DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	·	≤24V	Α	10
		48V	Α	9
		75V	Α	8
		110V	Α	2
		220V	Α	_
IFC may current le in l	DC3-DC5 with L/R ≤ 15ms with 2 poles in series	220 V		
ILO IIIAX CUITEIILIE III I	DOS-DOS WITH LITT = 101115 WITH 2 poles in series	<24)/	۸	10
		≤24V	A	13
		48V	A	11
		75V	Α	10
		110V	Α	7
		220V	Α	2
IEC max current le in l	DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
		≤24V	Α	15
		48V	Α	15
		75V	Α	13
		110V	Α	11
		220V	A	6
IFC may current to in t	DC3-DC5 with L/R ≤ 15ms with 4 poles in series	220 V		<u> </u>
ieo max current le IN I	DOG-DOG WITH L/N = 10HIS WITH 4 POIES III SEHES	-041 /	Λ	1 E
		≤24V	A	15
		48V	Α	15
		75V	Α	15
		110V	Α	12
		220V	Α	7
Short-time allowable of	current for 10s (IEC/EN60947-1)		Α	150
Protection fuse	· · · · · · · · · · · · · · · · · · ·			
		gG (IEC)	Α	25
		aM (IEC)	Α	10
Making capacity (RMS	value)	airi (iEO)	A	90
				30
Breaking capacity at vo	onage	4.40\/		70
		440V	Α	72
		500V	Α	72
		690V	Α	71
Resistance per pole (a	average value)		mΩ	2.5
Power dissipation per	pole (average value)			
		Ith	W	1.6
		AC-3	W	0.2
Tightening torque for to	erminals	<u> </u>		
G 12 G 221 422 101 1		min	Nm	1.5
		max	Nm	1.8
		min	Ibin	1.1
There is a		max	Ibin	1.5
Tightening torque for o	coli terminal			
		min	Nm	0.8
		max	Nm	1
		min	lbin	0.8
		max	lbin	0.74
Max number of wires s	simultaneously connectable		Nr.	2
Conductor section	-			
	AWG/Kcmil			
	, tr. o, torini	max		10
	Flovible w/e lug conductor coeffee	Παλ		10
	Flexible w/o lug conductor section	!	ma - 2	4
		min	mm²	1





FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 25A, AC COIL 60HZ,

			2	0
Flovible o/w lug co	nduster coetion	max	mm²	6
Flexible c/w lug co	nductor section	min	mm²	1
		max	mm²	1
Flexible with insula	ated spade lug conductor s		111111	
i lexible with insule	ited spade lag contaction t	min	mm²	1
		max	mm²	4
	\/FN 00500			IP20 when
Power terminal protection according to IEC	/EN 60529			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail
				35mm
Weight			g	368
Conductor section	atan a a atia :-			
AWG/kcmil condu	ctor section			10
Operations		max		10
Mechanical life			cycles	20000000
Electrical life			cycles	2000000
Safety related data			Cycles	200000
Performance level B10d according to EN/	SO 13489-1			
r one mande level 2 rea according to 2 re-	00 10 100 1	rated load	cycles	2000000
		mechanical load	cycles	20000000
Mirror contats according to IEC/EN 609474	4-4-1		-,	yes
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 60Hz			V	220
AC operating voltage				_
of 60Hz coil power	ed at 60Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out		0/11	00
		min	%Us	20
AC average coil consumption at 20°C		max	%Us	55
of 60Hz coil power	od at 60Hz			
oi donz coii powei	ou at our iz	in-rush	VA	75
		holding	VA VA	9
Dissipation at holding ≤20°C 50Hz		Holding	W	2.5
=			• •	-
Max cycles frequency				
Max cycles frequency Mechanical operation			cycles/h	3600
Max cycles frequency Mechanical operation Operating times			cycles/h	3600
Mechanical operation			cycles/h	3600
Mechanical operation Operating times			cycles/h	3600
Mechanical operation Operating times Average time for Us control	Closing NO		cycles/h	3600
Mechanical operation Operating times Average time for Us control	Closing NO	min	cycles/h	8
Mechanical operation Operating times Average time for Us control		min max		
Mechanical operation Operating times Average time for Us control	Closing NO Opening NO	max	ms ms	8 24
Mechanical operation Operating times Average time for Us control			ms	8



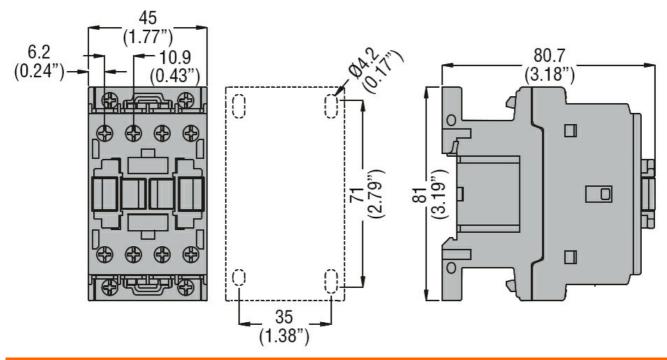


FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 25A, AC COIL 60HZ,

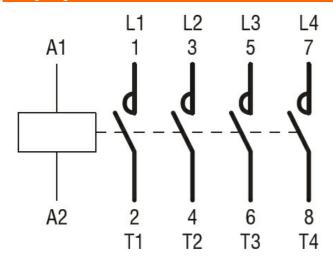
	Closing NC			
	-	min	ms	14
		max	ms	28
	Opening NC			
		min	ms	7
		max	ms	18
UL technical data				
Full-load current (FLA)	for three-phase AC motor			
		at 480V	Α	7.6
		at 600V	Α	0.375
Yielded mechanical pe				
	for single-phase AC motor			
		110/120V	HP	0.75
	·	230V	HP	2
	for three-phase AC motor			
		200/208V	HP	3
		220/230V	HP	3
		460/480V	HP	5
		575/600V	HP	7.5
General USE				
	Contactor			
		AC current	A	25
Short-circuit protection				
	High fault			
		Short circuit current	kA	100
		Fuse rating	Α	30
	-	Fuse class		J
	Standard fault			_
		Short circuit current	kA	5
A self-tendence Pro-		Fuse rating	Α	60
Ambient conditions				
Temperature				
	Operating temperature		0.0	
		min	°C	-50 50
	-	max	°C	70
	Storage temperature		0.0	22
		min	°C	-60
NA ICC I		max	°C	80
Max altitude			m	3000
Resistance & Protection	on			
Pollution degree				3
Dimensions				



FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 25A, AC COIL 60HZ, 220VAC



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

EAC

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching