



## FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 25A, AC COIL 60HZ, 48VAC, 2NO AND 2NC



		Power contactor
		BF09
	Nr.	4
		690
		6
min	Hz	25
		400
		25
AC-1 (≤40°C)	Α	25
		20
, ,		18
,		9
· ·		4.9
7.6 1 (1881)	- , ,	1.0
230V	k₩	9.5
		16
		21
		27
0001		150
		100
aG (IEC)	Δ	25
		10
aw (IEC)		90
		30
4401/	۸	72
		72 72
		72
090 V		2.5
	11122	2.0
lth	۱۸/	1.6
		1.6 0.2
AC-3	VV	0.2
ma in	Nina	4.5
		1.5
		1.8
		1.1
max	IDIN	1.5
		2.2
		0.8
		1
		0.8
max		0.74
	Nr.	2
	min max  AC-1 (≤40°C) AC-1 (≤55°C) AC-1 (≤70°C) AC-3 (≤440V ≤55°C) AC-4 (400V)  230V 400V 500V 690V  gG (IEC) aM (IEC)  440V 500V 690V  Ith AC-3  min max	max         Hz           A           AC-1 (≤40°C)         A           AC-1 (≤55°C)         A           AC-3 (≤440V ≤55°C)         A           AC-4 (400V)         A           230V         kW           400V         kW           500V         kW           690V         kW           A         A           440V         A           500V         A           690V         A           MΩ         A           Ith         W           AC-3         W           min         Nm           min         Ibin           max         Nm           min         Nm           max         Nm           min         Ibin





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<u> </u>				
Conductor section	AWG/Kcmil			
	AVVG/RCIIIII	max		10
	Flexible w/o lug conductor section	Пах		10
	3	min	mm²	1
		max	mm²	6
	Flexible c/w lug conductor section			
		min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor		2	4
		min max	mm² mm²	1 4
		IIIax	111111	IP20 when
Power terminal protect	ction according to IEC/EN 60529			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	360
Operations				
Mechanical life			cycles	20000000
Electrical life			cycles	2000000
Safety related data	0 Leaves Page 45 FN//00 40400 4			
Performance level B1	0d according to EN/ISO 13489-1	roted lood	ovoloo	2000000
		rated load mechanical load	cycles cycles	2000000 20000000
EMC compatibility		mechanical load	Cycles	yes
AC coil operating				yes
Rated AC voltage at 6	60Hz		V	48
AC operating voltage				
	of 60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out		0/11-	20
		min max	%Us %Us	20 55
AC average coil cons	umption at 20°C	IIIax	/003	
	of 60Hz coil powered at 60Hz			
	,	in-rush	VA	75
		holding	VA	9
Dissipation at holding			W	2.5
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operating times	antinal .			
Average time for Us c				
	in AC			
	Closing NO	min	ms	8
		max	ms	24
	Opening NO	max	0	
	5F39 3	min	ms	10



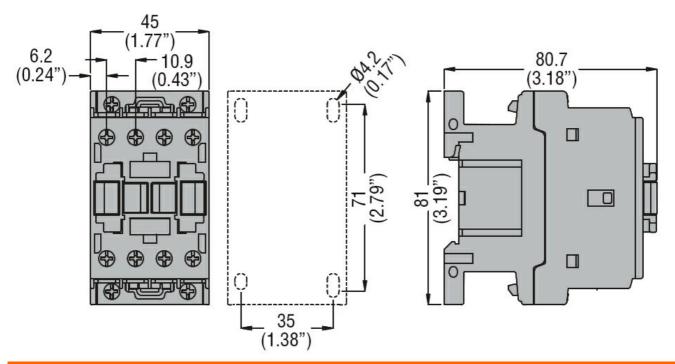


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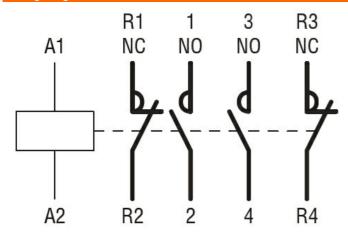
Min min ms   14 max   ms   28			max	ms	20
Max		Closing NC			
Copening NC   min max   min max			min	ms	
Max a min max			max	ms	28
Max		Opening NC	_		
Ult technical data   Rated operational voltage AC (UL)   V   600				_	
Rated operational voltage AC (UL)			max	ms	18
Full-load current (FLA) for three-phase AC motor  at 480V A 7.6 at 600V A 9  Yielded mechanical performance for single-phase AC motor  110/120V HP 0.8 230V HP 2  for three-phase AC motor  200/208V HP 3 220/230V HP 3 220/230V HP 3 460/480V HP 5 575/600V HP 7.5  General USE  Contactor  AC current A 25  Ambient conditions  Temperature  Operating temperature  Operating temperature  Storage temperature  min °C -50 max °C 70  Storage temperature  min °C -60 max °C 80  Max altitude  Max altitude  Resistance & Protection  Pollution degree  3					
At 480V   A 7.6 at 600V   A 9				V	600
at 600V         A         9           Yielded mechanical performance for single-phase AC motor           110/120V         HP         0.8           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           Ambient conditions           Temperature           Min         °C         -50           max         °C         70           Storage temperature           min         °C         -60           min         °C         -60           max         °C         -60	Full-load current (FLA)	) for three-phase AC motor			
Yielded mechanical performance for single-phase AC motor           110/120V HP 0.8 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           Ambient conditions           Temperature           Operating temperature           min °C -50 max °C 70           Storage temperature           min °C -60 max °C 80           Max altitude           Resistance & Protection           Pollution degree				Α	
For single-phase AC motor   110/120V			at 600V	Α	9
110/120V	Yielded mechanical pe	erformance			
Paragraphic   Paragraphic		for single-phase AC motor			
For three-phase AC motor   200/208V			110/120V	HP	0.8
200/208V			230V	HP	2
220/230V		for three-phase AC motor			
A60/480V			200/208V	HP	3
S75/600V HP 7.5			220/230V	HP	3
Contactor   AC current   A   25			460/480V	HP	5
Contactor           AC current         A 25           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         Pollution degree         3			575/600V	HP	7.5
AC current         A 25           Ambient conditions           Temperature           min or conditions         -50           min max or conditions         70           Storage temperature         min or conditions           Storage temperature         min or conditions           Max altitude         m 3000           Resistance & Protection           Pollution degree         3	General USE				
Ambient conditions		Contactor			
Operating temperature			AC current	Α	25
Operating temperature	Ambient conditions				
Operating temperature           min %C -50 max %C 70           Storage temperature         min %C -60 max %C 80           Max altitude         m 3000           Resistance & Protection         Total color of the protection of					
min max         °C 70           Storage temperature         min °C -60 max           min max         °C 80           Max altitude         m 3000           Resistance & Protection         9           Pollution degree         3	·	Operating temperature			
max         °C         70           Storage temperature         min         °C         -60           max         °C         80           Max altitude         m         3000           Resistance & Protection         9         3           Pollution degree         3         3			min	°C	-50
Storage temperature           min or C or -60 max or C storage         -60 max or C storage           Max altitude         m 3000           Resistance & Protection         3					
min max         °C -60 max         -60 max         °C 80           Max altitude         m 3000           Resistance & Protection           Pollution degree         3		Storage temperature			
Max altitudemax°C80Mesistance & Protectionm3000Pollution degree3		<b>3 F</b>	min	°C	-60
Max altitude m 3000 Resistance & Protection Pollution degree 3					
Resistance & Protection Pollution degree 3	Max altitude				
Pollution degree 3		on			
					3
	Dimensions				



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### 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