



Product designation Product type designation			Power contactor BF09
Contact characteristics			DI 09
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		А	25
Operational current le			
	AC-1 (≤40°C)	А	25
	AC-1 (≤55°C)	А	20
	AC-1 (≤70°C)	А	18
	AC-3 (≤440V ≤55°C)	А	9
	AC-4 (400V)	А	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 $L/R \le 1$ ms with 1 poles in series			
	≤24V	А	15
	48V	А	13
	75V	A	12
	110V	A	6
	220V	A	_
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	≤24V	A	18
	48V	A	18
	75V	A	17
	110V	A	12
	220V	A	1
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series	-0.11	۸	20
	≤24V	A	20
	48V	A	20
	75V	A	20
	110V	A	15
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series	220V	A	10
The max current le in DCT with $L/R \ge 1115$ with 4 poles in series	~0AV	۸	20
	≤24V	A	20
	48V 75V	A	20
	75V 110V	A	20
		A	16 12
	220V	А	12



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OR, IEC OPERATING CURRENT ITH (AC1) = 25A,	DC COIL,	48VDC

IEC max current le in DC	3-DC5 with L/R $\leq$ 15ms with 1 poles in series			
	•	≤24V	А	10
		48V	А	9
		75V	А	8
		110V	A	2
		220V	A	_
IEC max current lo in DC	3-DC5 with L/R $\leq$ 15ms with 2 poles in series	220 V	~	
IEC max current le m DC	$3-DC5$ with $L/R \le 15$ ms with 2 poles in series	(0.1)		10
		≤24V	A	13
		48V	A	11
		75V	Α	10
		110V	A	7
		220V	Α	2
IEC max current le in DC	3-DC5 with L/R $\leq$ 15ms with 3 poles in series			
		≤24V	Α	15
		48V	А	15
		75V	А	13
		110V	A	11
		220V	A	6
IFC max current le in DC	3-DC5 with L/R $\leq$ 15ms with 4 poles in series	220 V		<b>v</b>
		≤24V	۸	15
			A	15
		48V	A	15
		75V	Α	15
		110V	А	12
		220V	A	7
Short-time allowable curr	ent for 10s (IEC/EN60947-1)		Α	150
Protection fuse				
		gG (IEC)	А	25
		aM (IEC)	А	10
Making capacity (RMS va	lue)		А	90
Breaking capacity at volta				
Distanting supposed at volta	.90	440V	А	72
		500V	A	72
		690V		72
Desistance ner nele /over		0907	A	
Resistance per pole (ave			mΩ	2.5
Power dissipation per pol	e (average value)			
		lth	W	1.6
		AC-3	W	0.2
Tightening torque for term	ninals			
		min	Nm	1.5
		max	Nm	1.8
		min	Ibin	1.1
		max	Ibin	1.5
Tightening torque for coil	terminal	max		
	torminui	min	Nim	0.8
		min	Nm Nm	
		max	Nm	1
		min	Ibin	0.8
		max	Ibin	0.74
Max number of wires sime	ultaneously connectable		Nr.	2
Conductor section				
Ą	\WG/Kcmil			
		max		10
F	Texible w/o lug conductor section			
·			2	
		min	mm²	1



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		max	mm²	6
	Flexible c/w lug conductor section			
	······································	min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor section			
	······································	min	mm²	1
		max	mm²	4
Power terminal protect	tion according to IEC/EN 60529			IP20 when
· · ·	č			properly wired
Mechanical features				
Operating position		1		
		ormal wable		Vertical plan ±30°
Fixing				Screw / DIN rail 35mm
Weight			g	496
Conductor section				
	AWG/kcmil conductor section			
		max		10
Operations				
Mechanical life			cycles	2000000
Electrical life			cycles	2000000
Safety related data			0,0100	2000000
	0d according to EN/ISO 13489-1			
	-	lload	cycles	2000000
	mechanical		cycles	20000000
Mirror contats accordin	ng to IEC/EN 609474-4-1	louu	0,0100	yes
EMC compatibility				yes
DC coil operating				<i>j</i> 00
DC rated control voltage	ne		V	48
DC operating voltage	9°			
De operating venage	pick-up			
	plot op	min	%Us	70
		max	%Us	125
	drop-out	max	/000	120
		min	%Us	10
		max	%Us	40
Average coil consump	tion <20°C	max	,	
, worago oon oonoump		n-rush	W	5.4
		olding	W	5.4 5.4
Max cycles frequency		Juniy	vv	
Mechanical operation			cycles/h	3600
Operating times			5,5100/11	
Average time for Us co				
	in AC			
	Closing NO			
		min	ms	8
		max	ms	24
	Opening NO	max		_ ·
	opoining ite	min	ms	10
		max	ms	20
	Closing NC	max		
			ma	14
		min	1115	14
		min max	ms ms	28

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The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding

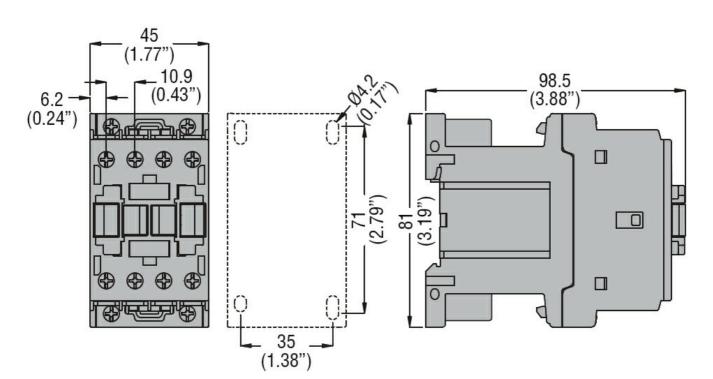


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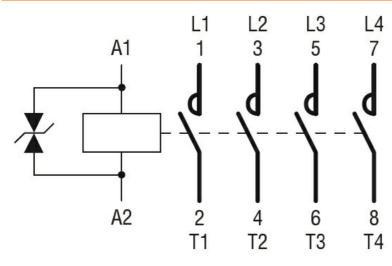
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		Opening NC			
		Opening NC	min	ms	7
			max	ms	, 18
	in DC		IIIdA	1113	10
		Closing NO			
		Closing NO	min	ms	54
			max	ms	66
		Opening NO	max	1115	00
		oponing No	min	ms	14
			max	ms	17
UL technical data			max	me	
	for three-phase AC moto	or			
			at 480V	А	7.6
			at 600V	A	0.375
Yielded mechanical per	rformance		al ooo i		
norded meenamear per	for single-phase AC me	otor			
			110/120V	HP	0.75
			230V	HP	2
	for three-phase AC mo	tor			
			200/208V	HP	3
			220/230V	HP	3
			460/480V	HP	5
			575/600V	HP	7.5
General USE					
	Contactor				
			AC current	А	25
Short-circuit protection	fuse, 600V				
-	High fault				
	-		Short circuit current	kA	100
			Fuse rating	А	30
			Fuse class		J
	Standard fault				
			Short circuit current	kA	5
			Fuse rating	А	60
Ambient conditions					
Temperature					
	Operating temperature				
			min	°C	-50
			max	°C	70
	Storage temperature				
			min	°C	-60
			max	°C	80
Max altitude				m	3000
Resistance & Protectio	n				
Pollution degree					3
Dimensions					





Wiring diagrams



## Certifications and 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	
CCC	
cULus	
EAC	
	EC000066 -
	Power contactor,
	AC switching
	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   CCC   cULus