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8	
10	

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		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	А	12
	110V	А	6
	220V	Α	_
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	≤24V	А	18
	48V	А	18
	75V	А	17
	110V	А	12
	220V	A	1
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			
	≤24V	А	20
	48V	А	20
	75V	А	20
	110V	А	15
	220V	A	10
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series			
	≤24V	А	20
	48V	А	20
	75V	А	20
	110V	А	16
	220V	А	12

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IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	А	10
	48V	А	9
	75V	А	8
	110V	A	2
	220V	A	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	2201	Λ	
TEC max current le in DC3-DC3 with Err 3 15ms with 2 poles in series	<0417	^	40
	≤24V	A	13
	48V	A	11
	75V	A	10
	110V	A	7
	220V	A	2
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 3 poles in series			
	≤24V	Α	15
	48V	А	15
	75V	А	13
	110V	A	11
	220V	A	6
IEC max current le in DC3-DC5 with L/R \leq 15ms with 4 poles in series	220 V		•
	≤24V	А	15
			15
	48V	A	15
	75V	Α	15
	110V	А	12
	220V	Α	7
Short-time allowable current for 10s (IEC/EN60947-1)		Α	150
Protection fuse			
	gG (IEC)	А	25
	aM (IEC)	А	10
Making capacity (RMS value)	. ,	Α	90
Breaking capacity at voltage			
Broaking oupdoiry at voltage	440V	А	72
	500V	A	72
	690V	A	71
Resistance per pole (average value)		mΩ	2.5
Power dissipation per pole (average value)			
	lth	W	1.6
	AC-3	W	0.2
Tightening torque for terminals		_	
	min	Nm	1.5
	max	Nm	1.8
	min	Ibin	1.1
	max	Ibin	1.5
Tightening torque for coil terminal	max		
	min	Nm	0.9
	min	Nm Nm	0.8
	max	Nm	1
	min	Ibin	0.8
	max	Ibin	0.74
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil			
	max		10
Flexible w/o lug conductor section			
	min	mm²	1
	11111		

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		max	mm²	6
	Flexible c/w lug conductor section		2	
		min	mm²	1
	The file of the later later is the second structure of the	max	mm²	4
	Flexible with insulated spade lug conductor section			4
		min	mm²	1
		max	mm²	4 IP20 when
Power terminal protec	tion according to IEC/EN 60529			properly wired
Mechanical features				
Operating position				
	n	ormal		Vertical plan
	allo	wable		±30°
Fiving				Screw / DIN rail
Fixing				35mm
Weight			g	356
Conductor section				
	AWG/kcmil conductor section			
		max		10
Operations				
Mechanical life			cycles	2000000
Electrical life			cycles	2000000
Safety related data				
Performance level B1	0d according to EN/ISO 13489-1			
	rated	d load	cycles	2000000
	mechanica	l load	cycles	2000000
Mirror contats according	ng to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 5	0/60Hz		V	230
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	85
		max	%Us	110
	drop-out	_		
		min	%Us	20
		max	%Us	55
AC average coil consu				
	of 50/60Hz coil powered at 50Hz			
		n-rush	VA	75
		olding	VA	9
	of 50/60Hz coil powered at 60Hz			
		n-rush	VA	70
		olding	VA	6.5
	of 60Hz coil powered at 60Hz			
	ir	n-rush	VA	75

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BF09T4A230 CONTACTEUR BF09T4A, 4P (4NO), 25A AC1, 230V 50/60HZ

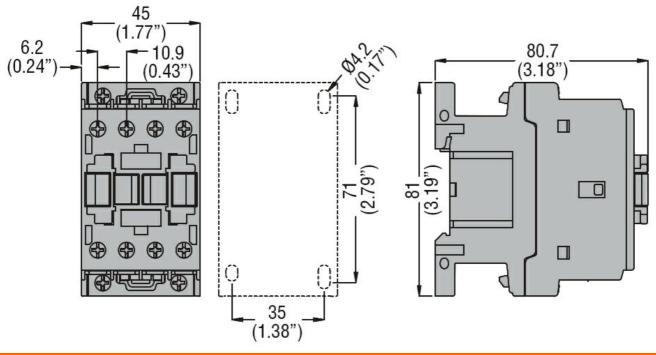
		holding	VA	9
Dissipation at holding			W	2.5
Max cycles frequenc				
Mechanical operation			cycles/h	3600
Operating times	trail			
Average time for Us				
	in AC			
	Closing NO	min	ms	8
		max	ms	24
	Opening NO	Шах	1115	27
	opening No	min	ms	10
		max	ms	20
	Closing NC			
	3	min	ms	14
		max	ms	28
	Opening NC			
		min	ms	7
		max	ms	18
UL technical data				
Full-load current (FL	A) for three-phase AC motor			
		at 480V	А	7.6
		at 600V	А	0.375
Yielded mechanical p	performance			
	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
<u> </u>		575/600V	HP	7.5
General USE				
	Contactor			05
		AC current	A	25
Short-circuit protection				
	High fault	Chart size it surrout	1. 0	100
		Short circuit current	kA A	100 30
		Fuse rating Fuse class	A	
	Standard fault	ruse cidss		J
		Short circuit current	kA	5
		Fuse rating	A	5 60
Ambient conditions			Π	
Temperature				
	Operating temperature			
		min	°C	-50
		max	°Č	70
	Storage temperature		-	-
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protec	tion			
Pollution degree				3
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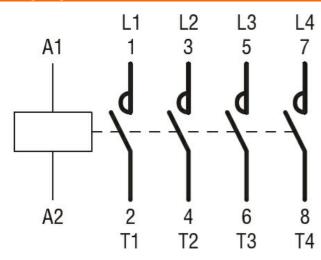
The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



Dimensions



Wiring diagrams



Certifications and compliance

Certifications and C	ompliance	
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		
		EC000066 -
ETIM 8.0		Power contactor,
		AC switching