



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)	A	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	-0.1) (	•	4 5
	≤24V	A	15
	48V	A	13
	75V 110V	A	12
	220V	A A	6
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series	220 V	A	
	≤24V	А	18
	48V	A	18
	48V 75V	A	17
	110V	A	12
	220V	A	1
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
	≤24V	А	20
	48V	A	20
	75V	A	20
	110V	А	15
	220V	А	10
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	А	20
	48V	А	20
	75V	А	20
	110V	А	16
	220V	А	12



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	А	2
	220V	А	_
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 2 poles in series			
	≤24V	А	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	2201	Λ	L
The max current is in Des-Des with Lift = 15ms with 5 poles in series	≤24V	А	15
	≤24∨ 48V		15
		A	15
	75V	A	13
	110V	A	11
	220V	A	6
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 4 poles in series		-	
	≤24V	A	15
	48V	A	15
	75V	А	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)		А	90
Breaking capacity at voltage			
	440V	А	72
	500V	А	72
	690V	А	71
Resistance per pole (average value)		mΩ	2.5
Power dissipation per pole (average value)			2.0
	lth	W	1.6
	AC-3	W	0.2
Tightening torque for terminals	AC-3	vv	0.2
rightening torque for terminals		Niss	4 5
	min	Nm	1.5
	max	Nm	1.8
	min	Ibin	1.1
	max	lbin	1.5
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbin	0.8
	max	lbin	0.74
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil			
	max		10
Flexible w/o lug conductor section			
č	min	mm²	1
		-	



BF09T4A230V260 CONTACTEUR BF09T4A, 4P (4NO), 25A AC1, 230V 50/60HZ - IEC/EN/BS 60335-1

mm<sup>2</sup> 6 max Flexible c/w lug conductor section min mm<sup>2</sup> 1 4 max mm<sup>2</sup> Flexible with insulated spade lug conductor section min mm<sup>2</sup> 1 max mm<sup>2</sup> 4 IP20 when Power terminal protection according to IEC/EN 60529 properly wired Mechanical features Operating position normal Vertical plan ±30° allowable Screw / DIN rail Fixing 35mm Weight 356 g Conductor section AWG/kcmil conductor section max 10 Operations Mechanical life 20000000 cycles Electrical life 2000000 cycles Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 2000000 2000000 mechanical load cycles Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility yes AC coil operating Rated AC voltage at 60Hz V 230 AC operating voltage of 60Hz coil powered at 60Hz pick-up %Us 80 min %Us 110 max drop-out 20 min %Us %Us 55 max AC average coil consumption at 20°C of 60Hz coil powered at 60Hz 75 in-rush VA holding VA 9 Dissipation at holding ≤20°C 50Hz W 2.5 Max cycles frequency Mechanical operation cycles/h 3600 Operating times Average time for Us control in AC Closing NO min ms 8 24 max ms **Opening NO** 10 min ms

max

ms

20



BF09T4A230V260 CONTACTEUR BF09T4A, 4P (4NO), 25A AC1, 230V 50/60HZ - IEC/EN/BS 60335-1

**Closing NC** 14 min ms 28 max ms **Opening NC** 7 min ms max ms 18 UL technical data Full-load current (FLA) for three-phase AC motor at 480V А 7.6 at 600V А 0.375 Yielded mechanical performance for single-phase AC motor 110/120V HP 0.75 HP 230V 2 for three-phase AC motor 3 200/208V HP 220/230V HP 3 460/480V ΗP 5 575/600V 7.5 HP General USE Contactor 25 AC current А Short-circuit protection fuse, 600V High fault Short circuit current kΑ 100 Fuse rating А 30 Fuse class J Standard fault Short circuit current kΑ 5 Fuse rating А 60 Ambient conditions Temperature Operating temperature °C -50 min °C 70 max Storage temperature

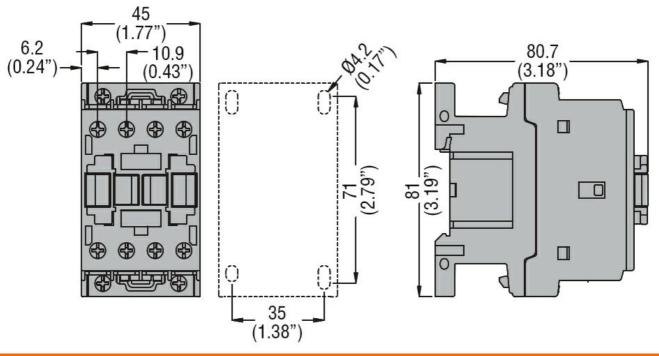
	max	°C	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3
Dimensions			

°C

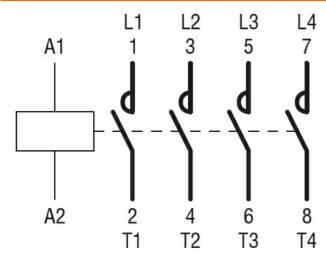
min

-60





Wiring diagrams



## Certifications and compliance

Compliance		
	CSA C22.2 n° 60947-1	
	CSA C22.2 n° 60947-4-1	
	IEC/EN/BS 60335-1	
	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