BF0910A230



Three-pole contactor, IEC operating current le (AC3) = 9A, AC coil 50/60Hz, 230VAC, 1NO auxiliary contact



Product designation			Power contactor
Product type designation			BF09
Contact characteristics			Broo
Number of poles		Nr.	3
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)	A	20
	AC-1 (≤70°C)	A	18
	AC-3 (≤440V ≤55°C)	Α	9
	AC-4 (400V)	A	4.9
Rated operational power AC-3 (T≤55°C)			
	230V	kW	2.2
	400V	kW	4.2
	415V	kW	4.5
	440V	kW	4.8
	500V	kW	5.5
	690V	kW	7.5
Rated operational power AC-1 (T≤40°C)	0001		1.0
	2201/	1.1.1/	0.5
	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	A	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
	≤24V	٨	18
		A	
	48V	A	18
	75V	Α	17
	110V	А	12
	220V	Α	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	A	20
	110V	A	15
	1100	<i>,</i> \	

BF0910A230



Three-pole contactor, IEC operating current le (AC3) = 9A, AC coil 50/60Hz, 230VAC, 1NO auxiliary contact

	220V	А	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	A	20	
	110V	A	16	
	220V	A	12	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series	2201	73	12	
	≤24V	А	10	
	48V	A	9	
	48V 75V	A		
	110V		8	
		A	2	
	220V	A	-	
IEC max current le in DC3-DC5 with L/R \leq 15ms with 2 poles in series				
	≤24V	A	13	
	48V	A	11	
	75V	А	10	
	110V	А	7	
	220V	Α	2	
IEC max current le in DC3-DC5 with L/R \leq 15ms with 3 poles in series				_
	≤24V	А	15	
	48V	А	15	
	75V	А	13	
	110V	А	11	
	220V	А	6	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series				
· · · · ·	≤24V	А	15	
	48V	A	15	
	75V	A	15	
	110V	A	12	
	220V	A	7	
Short-time allowable current for 10s (IEC/EN60947-1)	2201	A	150	
Protection fuse		~	150	
FIOLECIION TUSE		٨	25	
	gG (IEC)	A	25	
	aM (IEC)	A	10	
Making capacity (RMS value)		А	90	
Breaking capacity at voltage				
	440V	А	72	
	500V	А	72	
	690V	Α	71	
Resistance per pole (average value)		mΩ	2.5	
Power dissipation per pole (average value)				
	lth	W	1.6	
	AC3	W	0.2	
Tightening torque for terminals				
	min	Nm	1.5	
	max	Nm	1.8	
	min	lbin	1.1	
	max	lbin	1.5	
Tightening torque for coil terminal	Παλ		1.0	
	min	Nm	0.8	
	min	Nm Nm	0.8 1	
	max min	Nm	1 0.8	
	min	lbin	08	



BF0910A230 Three-pole contactor, IEC operating current le (AC3) = 9A, AC coil 50/60Hz, 230VAC, 1NO auxiliary contact

Mechanical features Operating position normal allowable 430° fixing Screw / DII 35mm Weight g 358 Conductor section max 10 Auxiliary contact characteristics max 10 Thermal current th A 10 EC/EN 60947-5-1 designation A600 - P60 Operating current AC15 230V A 230V A 3 400V A 1.9 500V A 1.4 Operating current DC12 110V A 5.7 Operating current DC13 24V A 5.7 Quov A 1.1 2.20V A 0.55 Goov A 0.2 2000000 2000000 220V A 0.55 Goov A 0.2 20000000 20000000 20000000			max	lbin	0.74
AWG/Kcmil max 10 Flexible w/o lug conductor section max mm² 1 max mm² 1 max mm² 1 Flexible c/w lug conductor section min mm² 1 max mm² 1 Flexible with insulated spade lug conductor section mm² 1 max mm² 1 Power terminal protection according to IEC/EN 60529 mm² 1 max mm² 1 Mechanical features mm² 1 max mm² 1 Operating position normal allowable ±30° S5mm S5mm S5mm Weight g 358 Conductor section S5mm S5mm <td< td=""><td>Max number of wires s</td><td>simultaneously connectable</td><td></td><td>Nr.</td><td>2</td></td<>	Max number of wires s	simultaneously connectable		Nr.	2
max 10 Flexible w/o lug conductor section min mm² 1 max mm² 6 Flexible c/w lug conductor section min mm² 1 max mm² 1 max mm² 1 Flexible c/w lug conductor section min mm² 1 max mm² 1 Flexible with insulated spade lug conductor section min mm² 1	Conductor section				
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rime mm² 1 Flexible c/w lug conductor section min mm² 1 reax mm² 4 Flexible with insulated spade lug conductor section min mm² 1 Power terminal protection according to IEC/EN 60529 IP20 when IP20 when Mechanical features operating position IP20 when Operating position normal Vertical position Normal Screw / DII 35mm Weight g 358 Conductor section max 10 Auxiliary contact characteristics max 10 Thermal current th A 10 IEC/EN 60947-5-1 designation A 10 Operating current DC12 230V A 3 Quov A 1.4 1.4 Operating current DC13 24V A 5.7 Quov A 1.25 1.25V A 1.4 Operating current DC13 24V A 5.7 2.9 600V			max		10
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Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility yes AC coil operating				•	
EMC compatibility yes AC coil operating	Mirror contats accordi			1	
AC coil operating					
					-
Rated AC Voltage at 50/60HZ V 230	Rated AC voltage at 5	0/60Hz		V	230

BF0910A230



Three-pole contactor, IEC operating current le (AC3) = 9A, AC coil 50/60Hz, 230VAC, 1NO auxiliary contact

AC operating voltage				
AC operating voltage	of 50/60Hz coil powered at 50Hz			
	pick-up		0/11-	0.0
		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	Imption at 20°C	max	/000	
no average con conca	of 50/60Hz coil powered at 50Hz			
	or soldering con powered at soling	in-rush	VA	75
		holding	VA	9
	of 50/60Hz coil powered at 60Hz			
		in-rush	VA	70
		holding	VA	6.5
	of 60Hz coil powered at 60Hz			
		in-rush	VA	75
		holding	VA	9
Dissipation at holding :	≤20°C 50Hz		W	2.5
Max cycles frequency				
			cvcles/h	3600
Mechanical operation			cycles/h	3600
Mechanical operation Operating times	potrol		cycles/h	3600
Mechanical operation			cycles/h	3600
Mechanical operation Operating times	in AC		cycles/h	3600
Mechanical operation Operating times		min		
Mechanical operation Operating times	in AC	min	ms	8
Mechanical operation Operating times	in AC Closing NO	min max		
Mechanical operation Operating times	in AC	max	ms ms	8 24
Mechanical operation Operating times	in AC Closing NO	max	ms ms ms	8 24 10
Mechanical operation Operating times	in AC Closing NO Opening NO	max	ms ms	8 24
Mechanical operation Operating times	in AC Closing NO	max min max	ms ms ms ms	8 24 10 20
Mechanical operation Operating times	in AC Closing NO Opening NO	max	ms ms ms ms ms	8 24 10 20 14
Mechanical operation Operating times	in AC Closing NO Opening NO Closing NC	max min max	ms ms ms ms	8 24 10 20
Mechanical operation Operating times	in AC Closing NO Opening NO	max min max min	ms ms ms ms ms	8 24 10 20 14
Mechanical operation Operating times	in AC Closing NO Opening NO Closing NC	max min max min	ms ms ms ms ms	8 24 10 20 14
Mechanical operation Operating times	in AC Closing NO Opening NO Closing NC	max min max min max	ms ms ms ms ms ms	8 24 10 20 14 28
Mechanical operation Operating times	in AC Closing NO Opening NO Closing NC	max min max min max min	ms ms ms ms ms ms ms	8 24 10 20 14 28 7
Mechanical operation Operating times Average time for Us co	in AC Closing NO Opening NO Closing NC Opening NC	max min max min max min	ms ms ms ms ms ms ms	8 24 10 20 14 28 7
Mechanical operation Operating times Average time for Us co	in AC Closing NO Opening NO Closing NC	max min max min max min max	ms ms ms ms ms ms ms ms	8 24 10 20 14 28 7 18
Mechanical operation Operating times Average time for Us co	in AC Closing NO Opening NO Closing NC Opening NC	max min max min max min max	ms ms ms ms ms ms ms ms	8 24 10 20 14 28 7 18 7.6
Mechanical operation Operating times Average time for Us co UL technical data Full-load current (FLA)	in AC Closing NO Opening NO Closing NC Opening NC	max min max min max min max	ms ms ms ms ms ms ms ms	8 24 10 20 14 28 7 18
Mechanical operation Operating times Average time for Us co	in AC Closing NO Opening NO Closing NC Opening NC opening NC erformance	max min max min max min max	ms ms ms ms ms ms ms ms	8 24 10 20 14 28 7 18 7.6
Mechanical operation Operating times Average time for Us co UL technical data Full-load current (FLA)	in AC Closing NO Opening NO Closing NC Opening NC	max min max min max min max at 480V at 600V	ms ms ms ms ms ms ms as	8 24 10 20 14 28 7 18 7.6 0.375
Mechanical operation Operating times Average time for Us co UL technical data Full-load current (FLA)	in AC Closing NO Opening NO Closing NC Opening NC opening NC erformance	max min max min max min max at 480V at 600V	ms ms ms ms ms ms ms Ms HP	8 24 10 20 14 28 7 18 7.6 0.375 0.75
Mechanical operation Operating times Average time for Us co UL technical data Full-load current (FLA)	in AC Closing NO Opening NO Closing NC Closing NC Opening NC opening NC	max min max min max min max at 480V at 600V	ms ms ms ms ms ms ms as	8 24 10 20 14 28 7 18 7.6 0.375
Mechanical operation Operating times Average time for Us co UL technical data Full-load current (FLA)	in AC Closing NO Opening NO Closing NC Opening NC opening NC erformance	max min max min max min max at 480V at 600V 110/120V 230V	ms ms ms ms ms ms ms A A A HP HP	8 24 10 20 14 28 7 18 7.6 0.375 0.75 2
Mechanical operation Operating times Average time for Us co UL technical data Full-load current (FLA)	in AC Closing NO Opening NO Closing NC Closing NC Opening NC opening NC	max min max min max min max at 480V at 600V	ms ms ms ms ms ms ms Ms HP	8 24 10 20 14 28 7 18 7.6 0.375 0.75

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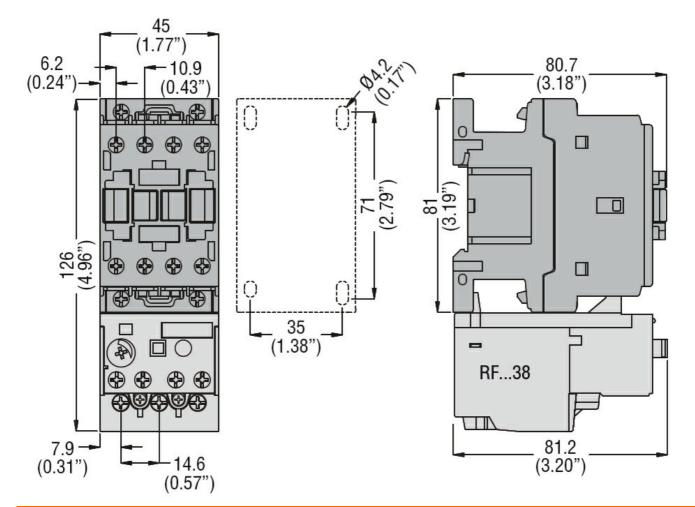
Three-pole contactor, IEC operating current le (AC3) = 9A, AC coil 50/60Hz, 230VAC, 1NO auxiliary contact

		460/480V	HP	5
		575/600V	HP	7.5
General USE				
	Contactor			
		AC current	А	25
	Auxiliary contacts			
	-	AC voltage	V	600
		AC current	А	10
		DC voltage	V	250
		DC current	А	1
Short-circuit protect	ction 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
Contact rating of a	uxiliary contacts according to UL			A600 - P600
Ambient conditions	S			
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Prot	ection			
Pollution degree				3
Dimensions				

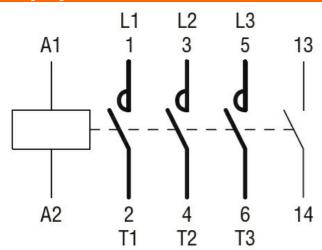
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Three-pole contactor, IEC operating current le (AC3) = 9A, AC coil 50/60Hz, 230VAC, 1NO auxiliary contact



Wiring diagrams



Certifications and compliance

Com	pliance
COIII	pliance

Compliance	
	CSA C22.2 n° 60947-1
	CSA C22.2 n° 60947-4-1
	IEC/EN 60947-1
	IEC/EN 60947-4-1
	UL 60947-1
	UL 60947-4-1
Certificates	
	CCC

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Three-pole contactor, IEC operating current le (AC3) = 9A, AC coil 50/60Hz, 230VAC, 1NO auxiliary contact

ENERGY AND AUTOMATION

CULus EAC ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching