

BF0910A230 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 50/60HZ, 230VAC, 1NO AUXILIARY CONTACT

Product designation Product type designation			Power contactor BF09
Contact characteristics			
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		A	25
Operational current le			
	AC-1 (≤40°C)	Α	25
	AC-1 (≤55°C)	A	20
	AC-1 (≤70°C)	A	18
	AC-3 (≤440V ≤55°C)	A	9
	AC-4 (400V)	A	4.9
Rated operational power AC-3 (T≤55°C)	0001/	1.3.67	0.0
	230V	kW	2.2
	400V	kW	4.2
	415V	kW	4.5
	440V	kW	4.8
	500V	kW	5.5
Deted exerctional neuror AC 1 (T<10°C)	690V	kW	7.5
Rated operational power AC-1 (T≤40°C)	2201/		0.5
	230V 400V	kW kW	9.5 16
	400V 500V	kW	21
	690V	kW	27
IEC max current le in DC1 with $L/R \le 1$ ms with 1 poles in series	090 v	N V V	21
The max current is in Der with L/K 3 mis with 1 poles in series	≤24V	А	15
	48V	A	13
	48V 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	2201	7.	
	≤24V	А	18
	48V	A	18
	75V	A	17
	110V	A	12
	220V	А	1
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
•	≤24V	А	20
	48V	А	20
	75V	А	20
	110V	А	15
	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	А	20
	110V	А	16
	220V	А	12

IEC max current le in DC3-DC5 with L/R \leq 15ms with 1 poles in series



BF0910A230 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 50/60HZ, 230VAC, 1NO AUXILIARY CONTACT

	≤24V	А	10
	48V	A	9
	75V	A	8
	110V	A	2
	220V	A	_
IEC max current le in DC3-DC5 with L/R \leq 15ms with 2 poles in series		7	
	≤24V	А	13
	48V	A	11
	75V	A	10
	110V	A	7
	220V	A	2
EC max current le in DC3-DC5 with $L/R \le 15$ ms with 3 poles in series	2201	7	L
	≤24V	А	15
	48V	A	15
	48V 75V	A	13
	110V	A	11
EC movie unreptile in DC2 DCE with $1/D < 45$ and with 4 relations in the first sector $\frac{1}{2}$	220V	A	6
EC max current le in DC3-DC5 with $L/R \le 15$ ms with 4 poles in series	-0.07		45
	≤24V	A	15
	48V	Α	15
	75V	А	15
	110V	А	12
	220V	A	7
Short-time allowable current for 10s (IEC/EN60947-1)		А	150
Protection fuse			
	gG (IEC)	Α	25
	aM (IEC)	Α	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)			-
····· ································	Ith	W	1.6
	AC3	W	0.2
Tightening torque for terminals	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	••	0.2
	min	Nm	1.5
	max	Nm	1.8
	min	Ibin	1.0
	max	Ibin	1.5
	max		1.0
Tightening torque for coil terminal			
Tightening torque for coil terminal	min	Nm	0.8
Tightening torque for coil terminal	min	Nm	0.8
Tightening torque for coil terminal	max	Nm	1
Tightening torque for coil terminal	max min	Nm Ibin	1 Prodotti finiti
	max	Nm Ibin Ibin	1 Prodotti finiti Prodotti finiti
Max number of wires simultaneously connectable	max min	Nm Ibin	1 Prodotti finiti
Max number of wires simultaneously connectable Conductor section	max min	Nm Ibin Ibin	1 Prodotti finiti Prodotti finiti
Max number of wires simultaneously connectable	max min max	Nm Ibin Ibin Nr.	1 Prodotti finiti Prodotti finiti 2
Max number of wires simultaneously connectable Conductor section	max min	Nm Ibin Ibin Nr.	1 Prodotti finiti Prodotti finiti 2
	max min max	Nm Ibin Ibin Nr.	1 Prodotti finiti Prodotti finiti 2
Max number of wires simultaneously connectable Conductor section	max min max min	Nm Ibin Ibin Nr.	1 Prodotti finiti Prodotti finiti 2

BF0910A230

BF0910A230



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 50/60HZ, 230VAC, 1NO AUXILIARY CONTACT

			2	
		max	mm²	4
	Flexible with insulated spade lug conducto			4
		min	mm² mm²	1
Power terminal protecti	on according to IEC/EN 60529	max	11111-	4 IP20 when wired
Mechanical features	on according to IEC/EN 80529			IF20 when when
Operating position				
Operating position		normal		Vertical plan
		allowable		±30°
				Screw / DIN rail
Fixing				35mm
Weight			g	358
Auxiliary contact charac	cteristics		Ū.	
Type of contact				1 NO
Thermal current Ith			А	10
IEC/EN 60947-5-1 desi	ignation			A600 - P600
Operating current AC15	5			
		230V	А	3
		400V	А	1.9
		500V	Α	1.4
Operating current DC12	2			
		110V	A	5.7
Operating current DC13	3			
		24V	Α	5.7
		48V	A	2.9
		60V	A	2.3
		110V	A	1.25
		125V 220V	A	1.1
		220V 600V	A A	0.55 0.2
Operations		000 v	~	0.2
Mechanical life			cycles	2000000
Electrical life			cycles	2000000
Safety related data			0,0100	2000000
	d according to EN/ISO 13489-1			
	3 1 1 1 1	rated load	cycles	2000000
		mechanical load	cycles	2000000
Mirror contats accordin	g to IEC/EN 609474-4-1			Yes
EMC compatibility				Yes
AC coil operating				
Rated AC voltage at 50	/60Hz		V	230
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out		0/17	00
		min	%Us	20
	of 50/60Hz poil powered at 60Uz	max	%Us	55
	of 50/60Hz coil powered at 60Hz			
	pick-up	min	%Us	85
		max	%Us	110
		Παλ	/000	

BF0910A230



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 50/60HZ, 230VAC, 1NO AUXILIARY CONTACT

BF0910A230

	drop-out			
		min	%Us	20
		max	%Us	55
AC average coil co	onsumption at 20°C			
Ū	of 50/60Hz coil powered at 50Hz			
	•	in-rush	VA	75
		holding	VA	9
	of 50/60Hz coil powered at 60Hz	Ŭ		
	•	in-rush	VA	70
		holding	VA	6.5
	of 60Hz coil powered at 60Hz	Ŭ		
	·	in-rush	VA	75
		holding	VA	9
Dissipation at holdi	ina ≤20°C 50Hz		W	2.5
Max cycles frequer				
Mechanical operati			cycles/h	3600
Operating times			e, 0.00, m	
Average time for U	is control			
	in AC			
	Closing NO			
		min	ms	8
		max	ms	24
	Opening NO	Пах	mo	27
	opening No	min	ms	10
		max	ms	20
	Closing NC	Шах	1115	20
		min	ms	14
		max	ms	28
	Opening NC	Пах	mo	20
	opoling ito	min	ms	7
		max	ms	18
JL technical data		Пах	mo	10
	LA) for three-phase AC motor			
		at 480V	А	7.6
		at 600V	A	0.375
Yielded mechanica	al performance	at 000 v	Π	0.070
	for single-phase AC motor			
		110/120V	HP	0.75
		230V	HP	2
	for three-phase AC motor	230 V	1.11.	2
	ioi iniee-phase AC motor	200/208V	HP	3
		200/208V 220/230V	HP	3
		460/480V	HP	5
		460/480V 575/600V	HP	5 7.5
Conorol LICE		575/0UUV		7.5
General USE	Contenter			
	Contactor		۸	25
	A will an a sector sta	AC current	A	25
	Auxiliary contacts		, <i>,</i>	

AC voltage

AC current

DC voltage

DC current

V

А

V

А

600

10

250

1



THREE-POLE CONTACTOR, IEC OPERATING CURR

RENT IE (AC3) = 9A, AC COIL 50/60HZ,
230VAC, 1NO AUXILIARY CONTACT

BF0910A230

		_		
		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 auxi	iliary contacts according to UL			A600 - P600
Ambient conditions				
Temperature				
·	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
	eterage temperature	min	°C	-60
		max	°Č	80
Max altitude		Пах	 	3000
Resistance & Protect	tion			3000
Pollution degree				3
Dimensions				5
Wiring diagrams				
Certifications and cor	mpliance			
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				
Certificates	CCC			
	cULus			
	EAC			
ETIM classification				E0000000
				EC000066 -
ETIM 8.0				Power contactor,
				AC switching