

BF1210A230 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, AC COIL 50/60HZ, 230VAC, 1NO AUXILIARY CONTACT

Product designation Product type designation			Power contactor BF12
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		Α	28
Operational current le			
	AC-1 (≤40°C)	Α	28
	AC-1 (≤55°C)	Α	23
	AC-1 (≤70°C)	А	20
	AC-3 (≤440V ≤55°C)	Α	12
	AC-4 (400V)	Α	7.9
Rated operational power AC-3 (T≤55°C)			
	230V	kW	3.2
	400V	kW	5.7
	415V	kW	6.2
	440V	kW	5.5
	500V	kW	5
	690V	kW	5
Rated operational power AC-1 (T≤40°C)			
	230V	kW	10
	400V	kW	18
	500V	kW	23
	690V	kW	32
IEC max current le in DC1 with $L/R \le 1$ ms with 1 poles in series			
	≤24V	А	17
	48V	А	15
	75V	А	13
	110V	А	6
	220V	А	_
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	≤24V	А	20
	48V	А	20
	75V	А	18
	110V	А	13
	220V	А	1
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			
	≤24V	А	22
	48V	А	22
	75V	А	20
	110V	А	16
	220V	А	11
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series			
· ·	≤24V	А	20
	48V	A	20
	751/	A	20
	75V 110V	A A	20 16

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



BF1210A230 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, AC COIL 50/60HZ, 230VAC, 1NO AUXILIARY CONTACT

	≤24V	А	12
	48V	A	11
	75V	A	10
	110V	A	2
	220V	A	<u> </u>
IEC may aurrent to in DC2 DC5 with L/R < 15mg with 2 pales in series	220 V	A	-
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 2 poles in series	<0.4) /	•	4 5
	≤24V	A	15
	48V	А	13
	75V	А	12
	110V	А	8
	220V	A	2
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 3 poles in series			
	≤24V	А	18
	48V	А	18
	75V	А	15
	110V	А	12
	220V	A	6
IEC max current le in DC3-DC5 with L/R \leq 15ms with 4 poles in series	2201	Α	0
The current leaf dos-dos with $L/R \leq 15$ mill 4 poles in series	<0.4) /	•	45
	≤24V	A	15
	48V	A	15
	75V	A	15
	110V	А	16
	220V	Α	7
Short-time allowable current for 10s (IEC/EN60947-1)		А	150
Protection fuse			
	gG (IEC)	А	32
	aM (IEC)	А	12
Making capacity (RMS value)		A	120
Breaking capacity at voltage		7.	120
Dreaking capacity at voltage	440V	۸	06
		A	96
	500V	A	96
	690V	A	94
Resistance per pole (average value)		mΩ	2.5
Power dissipation per pole (average value)			
	Ith	W	2
	AC3	W	0.4
Tightening torque for terminals			
		Nm	1.5
	min		1.8
	min max	Nm	
	max	Nm Ibin	
	max min	Ibin	1.1
Tightoping torque for coil terminal	max		
Tightening torque for coil terminal	max min max	lbin Ibin	1.1 1.5
Tightening torque for coil terminal	max min max min	Ibin Ibin Nm	1.1 1.5 0.8
Tightening torque for coil terminal	max min max min max	Ibin Ibin Nm Nm	1.1 1.5 0.8 1
Tightening torque for coil terminal	max min max min	Ibin Ibin Nm Nm Ibin	1.1 1.5 0.8 1 Prodotti finiti
Tightening torque for coil terminal	max min max min max	Ibin Ibin Nm Nm	1.1 1.5 0.8 1
	max min max min max min	Ibin Ibin Nm Nm Ibin	1.1 1.5 0.8 1 Prodotti finiti
Max number of wires simultaneously connectable	max min max min max min	Ibin Ibin Nm Nm Ibin Ibin	1.1 1.5 0.8 1 Prodotti finiti Prodotti finiti
Max number of wires simultaneously connectable Conductor section	max min max min max min	Ibin Ibin Nm Nm Ibin Ibin	1.1 1.5 0.8 1 Prodotti finiti Prodotti finiti
Max number of wires simultaneously connectable	max min max min max min max	Ibin Ibin Nm Ibin Ibin Nr.	1.1 1.5 0.8 1 Prodotti finiti Prodotti finiti 2
Max number of wires simultaneously connectable Conductor section	max min max min max min max	Ibin Ibin Nm Ibin Ibin Nr.	1.1 1.5 0.8 1 Prodotti finiti Prodotti finiti 2
	max min max min max min max	Ibin Ibin Nm Ibin Ibin Nr.	1.1 1.5 0.8 1 Prodotti finiti Prodotti finiti 2
Max number of wires simultaneously connectable Conductor section	max min max min max min max	Ibin Ibin Nm Ibin Ibin Nr.	1.1 1.5 0.8 1 Prodotti finiti Prodotti finiti 2

BF1210A230

BF1210A230



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, AC COIL 50/60HZ, 230VAC, 1NO AUXILIARY CONTACT

	max	mm²	4
Flexible with insulated spade lug conductor sectio	'n		
	min	mm²	1
	max	mm²	4
Power terminal protection according to IEC/EN 60529			IP20 when wired
Mechanical features			
Operating position			
	normal		Vertical plan
	allowable		±30°
Fixing			Screw / DIN rail 35mm
Weight		g	356
Auxiliary contact characteristics			
Type of contact			1 NO
Thermal current Ith		А	10
IEC/EN 60947-5-1 designation			A600 - P600
Operating current AC15			
	230V	А	3
	400V	А	1.9
	500V	А	1.4
Operating current DC12	110V	A	5.7
Operating current DC13	1100	A	0.1
	24V	А	5.7
	48V	A	2.9
	40V 60V	A	2.3
	110V	A	1.25
	125V	A	1.1
	220V	A	0.55
	600V	A	0.2
Operations	0001	,,	0.12
Mechanical life		cycles	2000000
Electrical life		cycles	2000000
Safety related data		- ,	
Performance level B10d according to EN/ISO 13489-1			
	rated load	cycles	2000000
	mechanical load	cycles	2000000
Mirror contats according 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			
	min	%Us	20
	max	%Us	55
of 50/60Hz coil powered at 60Hz			
pick-up			
	min	%Us	85
	max	%Us	110



BF1210A230 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, AC COIL 50/60HZ, 230VAC, INO AUXILIARY CONTACT

	drop-out			
	ulop-out	min	%Us	20
		max	%Us	55
AC average coil cons	sumption at 20°C		,	
	of 50/60Hz coil powered at 50Hz			
		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	g ≤20°C 50Hz		W	2.5
Max cycles frequency	у			
Mechanical operation)		cycles/h	3600
Operating times				
Average time for Us				
	in AC			
	Closing NO			
		min	ms	8
		max	ms	24
	Opening NO			
		min	ms	10
		max	ms	20
	Closing NC			
		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	A	11
		at 600V	A	11
Yielded mechanical p				
	for single-phase AC motor	440/4001/		
		110/120V	HP	1
	· · · · · · · · · · · · · · · · · · ·	230V	HP	2
	for three-phase AC motor			F
		200/208V	HP	5
		220/230V	HP	5
		460/480V	HP	7.5
		575/600V	HP	10
General USE	Original			
	Contactor	10	۸	00
	A	AC current	A	28
	Auxiliary contacts		.,	
		AC voltage	V	600
		AC current	A	10
		DC voltage	V	250
		DC current	A	1
Short-circuit protection				
	High fault			



BF1210A230 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, AC COIL 50/60HZ, 230VAC, INO AUXILIARY CONTACT

		Short circuit current	kA	100
		Fuse rating	А	30
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	А	70
Contact rating of auxi	liary contacts according to UL	5		A600 - P600
Ambient conditions				
Temperature				
	Operating temperature			
	operating temperature	min	°C	-50
		max	°C	70
	Storage temperature	max	0	70
	Slorage lemperature	min	°C	-60
			°C	80
Max altitude		max		3000
	ien.		m	3000
Resistance & Protect	lon			2
Pollution degree				3
Dimensions				
Wiring diagrams				
Certifications and cor	npliance			
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				
Certinicates	CCC			
	CULus			
	EAC			
ETIM classification				5000000
				EC000066 -
ETIM 8.0				Power contactor,

AC switching

BF1210A230