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Product designation

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



Power contactor BF12

**BF1210A230** 

Product type designation			BF12
Product type designation Contact characteristics			DF12
			2
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
Conventional free air thermal current Ith IEC/EN		A	28
Operational current le			
	AC-1 (≤40°C)	А	28
	AC-3 (≤440V ≤55°C)	А	12
	AC-4 (400V)	А	7.9
Rated operational power AC-1 (T≤40°C)			
	230V	kW	10
	400V	kW	18
	500V	kW	23
	690V	kW	32
Rated operational power AC-3 (T≤55°C)			
	230V	kW	3.2
	400V	kW	5.7
	415V	kW	6.2
	440V	kW	6.2
	500V	kW	7.5
	690V	kW	10
Short-time allowable current for 10s (IEC/EN60947-1)		А	150
Protection fuse			
	gG (IEC)	А	32
	aM (IEC)	A	12
Making capacity (RMS value)		A	120
Breaking capacity at voltage			120
breaking capacity at voltage	440V	А	96
	500V	A	96
	690V		94
Pasistanas nor pala (avaraga valua)	090 V	A mΩ	2.5
Resistance per pole (average value)		11152	2.0
Power dissipation per pole (average value)	144	14/	0
	lth	W	2
The contract of the construction	AC3	W	0.4
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



ВF1210A230 Параметры THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, AC COIL 50/60HZ, 230VAC, 1NO AUXILIARY CONTACT

	mi	in	Nm	0.8
	ma	X	Nm	1
	mi	in	lbft	0.8
	ma	ах	lbft	0.74
Max number of wires	simultaneously connectable		nr.	2
Conductor section				
	AWG			
	/kcmil mi	in		16
	/kcmil ma	ах		10
	Flexible w/o lug conductor section			
	mi	in	mm²	1
	ma	ах	mm²	6
	Flexible c/w lug conductor section			
	mi	in	mm²	1
	ma	ax	mm²	4
	Flexible with insulated spade lug conductor section			
	mi	in	mm²	1
	ma	ах	mm²	4
Power terminal protect	ction according to IEC/EN 60529			IP20 when wired
Auxiliary contact chara				
Type of contact				1 NO
Thermal current Ith			А	10
IEC/EN 60947-5-1 de	esignation			A600 - P600
Operational current le			А	28
Operating current AC			Λ	20
	230	V	А	3
	400		A	
				1.9
	500	V	A	1.4
Operating current DC			•	<b>F 7</b>
<u> </u>	110	V	A	5.7
Operating current DC				
	24		А	5.7
	48		А	2.9
	60	V	А	2.3
	110	N	А	Screw / DIN rail
				35mm
	125		А	0.6
	220		А	0.2
	600	V	А	1.2
Ambient conditions				
Temperature				
	Operating temperature			
	mi	in	°C	-50
	ma	ах	°C	70
	Storage temperature		-	
	mi	in	°C	-60
		ax	°C	80
Max altitude	1116		m	3000
			m	3000
			m	
	Operating position norma		m	vertical plan
Operational position			m	vertical plan ±30°
Max altitude Operational position Fixing	Operating position norma			vertical plan

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## BF1210A230 Параметры THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, AC COIL

ENERGY AND AUTOMATION

50/60HZ, 230VAC, 1NO AUXILIARY CONTACT

Operations Mechanical life			Cycles	20000000
Electrical life			Cycles	2000000
Safety related data			2,0.00	
	0d according to EN/ISO 13489-1			
	-	rated load	Cicli	2000000
		mechanical load	Cicli	20000000
Mirror contats according	ng to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating				
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up		0/11-	0.0
		min	%Us	0.8
	drop out	max	%Us	1.1
	drop-out	min	%Us	0.2
		max	%Us %Us	0.2 0.55
	of 50/60Hz coil powered at 60Hz	Παλ	/003	0.00
	pick-up			
	Plot of	min	%Us	0.85
		max	%Us	1.1
	drop-out			
		min	%Us	0.2
		max	%Us	0.55
	of 60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	0.8
		max	%Us	1.1
	drop-out		0/11	
		min	%Us	0.2
AC an aroting valtage		max	%Us	0.55
AC operating voltage	of EQ/COLLE apil powered at EQUE			
	of 50/60Hz coil powered at 50Hz	in ruch	١/٨	75
		in-rush holding	VA VA	75 9
	of 50/60Hz coil powered at 60Hz	noiding	٧٨	5
		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				
Mechanical operations			Cycles/h	3600
Operating times				
Average time for Us co				
	in AC			
	Closing NO			_
		min	ms	8
		max	ms	24
	Opening NO	. <u></u> • .		10
		min	ms	10
		max	ms	20

BF1210A230

**BF1210A230** OPERATING CURRENT IE (AC3) = 12A. AC COIL



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

min	ms	14
max	ms	28
Opening NC		
		7
		7
max	ms	18
tor		
	۸	11
at 600V	A	11
notor		
	hn	1
	-	
	np	2
otor		
Yielded mechanical performance 200/208V	hp	5
	•	5
	-	7.5
	-	
	np	10
		A600 - P600
	۸	20
AC current	А	28
		3
· V~ 80	) 7	
	Opening NC min max tor at 480V at 600V notor Yielded mechanical performance 110/120V Yielded mechanical performance 230V otor Yielded mechanical performance 200/208V Yielded mechanical performance 200/208V Yielded mechanical performance 575/600V DOUL AC current	Opening NC min ms   max ms   tor at 480V A   at 600V A   notor Yielded mechanical performance 110/120V hp   Yielded mechanical performance 230V hp   otor Yielded mechanical performance 200/208V hp   Yielded mechanical performance 200/208V hp   Yielded mechanical performance 575/600V hp   otul AC current A

**Closing NC** 

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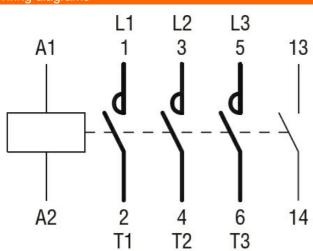


BF1210A230 Параметры THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, AC COIL

ENERGY AND AUTOMATION

50/60HZ, 230VAC, 1NO AUXILIARY CONTACT





## Certifications and compliance

Certifications	
	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
Compliance	
	CCC
	cULus
	EAC
FTIM 6 classification	

ETIM 6 classification

EC000066 - Power contactor, AC switching