

BF1210A024 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, AC COIL 50/60HZ, 24VAC, 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		А	28
Operational current le		_	
	AC-1 (≤40°C)	A	28
	AC-1 (≤55°C)	A	23
	AC-1 (≤70°C)	A	20
	AC-3 (≤440V ≤55°C)	A	12
	AC-4 (400V)	A	7.9
Rated operational power AC-3 (T≤55°C)	0001	1.3.67	2.0
	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)	0001/		4.0
	230V	kW	10
	400V	kW	18
	500V	kW	23
IEC max current le in DC1 with $L/R \le 1$ ms with 1 poles in series	690V	kW	32
The current is in DCT with $L/R \leq 100$ with 1 poiss in series	<041/	^	47
	≤24V	A	17
	48V 75V	A	15 13
	110V	A A	6
	220V	A	
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	220 V	A	_
The max current le in DCT with $L/R \ge 1115$ with 2 poles in series	≤24V	А	20
	48V	A	20
	48V 75V	A	18
	110V	A	13
	220V	A	1
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	2201	Λ	I
	≤24V	А	22
	48V	A	22
	48V 75V	A	20
	110V	A	16
	220V	A	11
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series	2201		
	≤24V	А	20
	48V	A	20
	48V 75V	A	20
	110V	A	16
	220V	A	12
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in se			.=

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



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	≤24V	А	12
	48V	А	11
	75V	А	10
	110V	А	2
	220V	А	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	А	15
	48V	А	13
	75V	А	12
	110V	А	8
	220V	А	2
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
· · · ·	≤24V	А	18
	48V	А	18
	75V	А	15
	110V	A	12
	220V	A	6
IEC max current le in DC3-DC5 with L/R \leq 15ms with 4 poles in series			-
	≤24V	А	15
	48V	A	15
	40V 75V	A	15
	110V	A	16
	220V	A	7
Short-time allowable current for 10s (IEC/EN60947-1)	2200	A	150
		A	150
Protection fuse		۸	20
	gG (IEC)	A	32
	aM (IEC)	A	12
Making capacity (RMS value)		А	120
Breaking capacity at voltage			
	440V	A	96
	500V	A	96
	690V	A	94
Resistance per pole (average value)		mΩ	2.5
Power dissipation per pole (average value)			
	lth	W	2
	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			
	min	Nm	0.8
	max	Nm	1
	min	lbin	Prodotti finiti
	max	Ibin	Prodotti finiti
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
Flexible w/o lug conductor section			
	min	mm²	1
	max	mm²	6
Flexible c/w lug conductor section			-
	min	mm²	1

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		max	mm²	4
	Flexible with insulated spade lug conductor se	ection		
		min	mm²	1
		max	mm²	4
	tion according to IEC/EN 60529			IP20 when wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30° Screw / DIN rail
Fixing				35mm
Weight			g	360
Auxiliary contact chara	cteristics			
Type of contact				1 NO
Thermal current Ith			Α	10
IEC/EN 60947-5-1 des	-			A600 - P600
Operating current AC1	5		•	0
		230V	A	3
		400V	A	1.9
On exeting a summer to DOA	0	500V	A	1.4
Operating current DC1	2	110V	А	5.7
Operating current DC1	3			
		24V	А	5.7
		48V	А	2.9
		60V	А	2.3
		110V	А	1.25
		125V	Α	1.1
		220V	А	0.55
		600V	A	0.2
Operations				
Mechanical life			cycles	2000000
Electrical life			cycles	2000000
Safety related data				
Performance level B10	0d according to EN/ISO 13489-1	اد ما اد مهمی		000000
		rated load mechanical load	cycles	2000000
Mirror contata accordir	ng to IEC/EN 609474-4-1	mechanical load	cycles	20000000 Yes
EMC compatibility	Ig to IEC/EN 009474-4-1			Yes
AC coil operating				165
Rated AC voltage at 50	0/60Hz		V	24
AC operating voltage			v	_ :
re operating relage	of 50/60Hz coil powered at 50Hz			
	pick-up			
	م لم ۲۰۰۰۰	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

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max 9 n-rush olding n-rush olding cyo min max min	%Us %Us %Us VA VA VA VA VA VA W cles/h ms ms ms	20 55 75 9 70 6.5 75 9 2.5 3600 8 24 10 20
max 9 n-rush olding n-rush olding cyo min max min	KUS VA VA VA VA VA VA Cles/h ms ms ms	55 75 9 70 6.5 75 9 2.5 3600 8 24 10
n-rush olding n-rush olding n-rush olding cyd min max min	VA VA VA VA VA Cles/h ms ms	75 9 70 6.5 75 9 2.5 3600 8 24 10
olding n-rush olding n-rush olding cyo min max min	VA VA VA VA W cles/h ms ms	9 70 6.5 75 9 2.5 3600 8 24 10
olding n-rush olding n-rush olding cyo min max min	VA VA VA VA W cles/h ms ms	9 70 6.5 75 9 2.5 3600 8 24 10
olding n-rush olding n-rush olding cyo min max min	VA VA VA VA W cles/h ms ms	9 70 6.5 75 9 2.5 3600 8 24 10
n-rush olding n-rush olding cyd min max min	VA VA VA W cles/h ms ms	70 6.5 75 9 2.5 3600 8 24 10
olding n-rush olding cya min max min	VA VA VA cles/h ms ms	6.5 75 9 2.5 3600 8 24 10
olding n-rush olding cya min max min	VA VA VA cles/h ms ms	6.5 75 9 2.5 3600 8 24 10
n-rush olding cyd min max min	VA VA W cles/h ms ms	75 9 2.5 3600 8 24 10
olding cyo min max min	VA W cles/h ms ms	9 2.5 3600 8 24 10
olding cyo min max min	VA W cles/h ms ms	9 2.5 3600 8 24 10
min max min	W cles/h ms ms	2.5 3600 8 24 10
cyo min max min	cles/h ms ms ms	3600 8 24 10
min max min	ms ms ms	8 24 10
min max min	ms ms ms	8 24 10
max min	ms ms	24 10
		10
max	ms	20
min	ms	14
max	ms	28
min	ms	7
max	ms	18
480V	А	11
600V	А	11
	HP	1
230V	HP	2
		5
		5
		7.5
/600V	HP	10
urrent	А	28
	V	600
oltage		10
-	А	
urrent		∠50
-	A V A	250 1
)))))	230V)/208V)/230V)/480V	230V HP 230V HP 230

High fault

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		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 auxili	ary 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 & Protection	on			3000
Pollution degree				3
Dimensions				5
<u></u>				
Wiring diagrams				
Certifications and com	ipliance			
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	02 00047 4 1			
Certificates	CCC			
	cULus			
	EAC			
ETIM classification				5000000
				EC000066 -
ETIM 8.0				Power contactor,
				AC switching