electric Three-pole contactor, IEC operating current le (AC3) = 18A, DC coil low consumption, 24VDC, 1NC auxiliary contact



Product designation			Power contactor
Product type designation Contact characteristics			BF18
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency		IX V	
Operational frequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	IIIdA	A	32
Operational current le			<u> </u>
Operational current le	AC-1 (≤40°C)	Α	32
	AC-1 (≤40 C) AC-1 (≤55°C)	A	26
	AC-1 (≤33°C) AC-1 (≤70°C)	A	23
	AC-3 (≤440V ≤55°C)	A	18
	AC-4 (400V)	A	8.5
Rated operational power AC-3 (T≤55°C)	AO-4 (400V)		0.5
Trated operational power AC-3 (1200 C)	230V	kW	4
	400V	kW	7.5
	415V	kW	9
	440V	kW	9
	500V	kW	10
	690V	kW	10
Rated operational power AC-1 (T≤40°C)	030 V	IXVV	10
reaction of power Ao-1 (1240 O)	230V	kW	12
	400V	kW	21
	500V	kW	26
	690V	kW	36
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series	0001	1000	
TES max surront to in Bot with Erre - mis with a polos in some	≤24V	Α	17
	48V	Α	15
	75V	Α	15
	110V	Α	6
	220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
	≤24V	Α	20
	48V	Α	20
	75V	Α	20
	110V	Α	13
	220V	Α	1
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
31 2 2 2 3 3 Mar 2 1 3 Mar 2 points in 30 Mar	≤24V	Α	22
	48V	Α	22
	75V	Α	20
	110V	Α	16
	• •	-	-

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	220V	Α	11
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	Α	22
	48V	Α	22
	75V	Α	20
	110V	Α	18
	220V	Α	13
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	Α	12
	48V	Α	11
	75V	Α	11
	110V	Α	2
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
120 max carrent to in 200 200 mai 21(2 10mb mai 2 poloc in conce	≤24V	Α	15
	48V	A	13
	75V	A	13
	110V	A	8
	220V	A	2
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	2200	^	
TEC max current le in DC3-DC3 with E/R > 13ms with 3 poles in selles	-24 \/	۸	10
	≤24V 48V	A	18
		A	18
	75V	A	16
	110V	A	12
	220V	Α	6
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series		_	
	≤24V	Α	18
	48V	Α	18
	75V	Α	16
	110V	Α	13
	220V	Α	8
Short-time allowable current for 10s (IEC/EN60947-1)		Α	200
Protection fuse			
	gG (IEC)	Α	32
	aM (IEC)	Α	20
Making capacity (RMS value)		Α	180
Breaking capacity at voltage			
	440V	Α	144
	500V	Α	120
	690V	Α	94
Resistance per pole (average value)		mΩ	2.5
Power dissipation per pole (average value)			
\	lth	W	2.6
	AC3	W	0.8
Tightening torque for terminals	7.00	**	<u> </u>
Tightstang to que for terminate	min	Nm	1.5
	max	Nm	1.8
	min	lbin	1.1
		lbin	1.5
Tightening torque for coil terminal	max	וווווו	1.0
rightening torque for con terminal		Nime	0.0
	min	Nm Nm	0.8
	max	Nm	1
	min	lbin	0.8

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		max	lbin	0.74
Max number of wires	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		10
	Flexible w/o lug conductor section			
		min	mm²	1
		max	mm²	6
	Flexible c/w lug conductor section		2	
		min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor section		mm²	1
		min	mm² mm²	1 4
Power terminal protect	ction according to IEC/EN 60529	max	111111	IP20 when wired
Mechanical features	Cition according to IEC/EIN 00329			ir 20 when when
Operating position				
Spordaring position		normal		Vertical plan
		allowable		±30°
		anomabio		Screw / DIN rail
Fixing				35mm
Weight			g	502
Conductor section				
	AWG/kcmil conductor section			
		max		10
Auxiliary contact chara	acteristics			
Thermal current Ith			Α	10
IEC/EN 60947-5-1 de	signation			A600 - P600
Operating current AC	15			
		230V	Α	3
		400V	Α	1.9
		500V	Α	1.4
Operating current DC	12			
		110V	Α	5.7
Operating current DC	13	2.41.6		
		24V	A	5.7
		48V	A	2.9
		60V	A	2.3
		110V 125V	A A	1.25 1.1
		125V 220V	A	0.55
		600V	A	0.33
Operations		0001		J. <u>E</u>
Mechanical life			cycles	20000000
Electrical life			cycles	1600000
Safety related data			. ,	
· · · · · · · · · · · · · · · · · · ·	0d according to EN/ISO 13489-1			
	Č	rated load	cycles	1600000
	r	mechanical load	cycles	20000000
Mirror contats accordi	ing to IEC/EN 609474-4-1			yes
EMC compatibility	-			yes
DC coil operating				
DC rated control volta	ge		V	24

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DC operating voltage					
	pick-up				
	•		min	%Us	80
			max	%Us	110
	drop-out				
	a. op 0 a.		min	%Us	10
			max	%Us	40
Average coil consump	tion <20°C			7000	
7 Wordyo con concump			in-rush	W	2.4
			holding	W	2.4
Max cycles frequency			Holding	VV	2.4
				ovoloo/b	2600
Mechanical operation				cycles/h	3600
Operating times	untural.				
Average time for Us co					
	in AC	01 : 110			
		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
	in DC				
	2 0	Closing NO			
		Gleenig 110	min	ms	75
			max	ms	91
		Opening NO	IIIax	1113	31
		Opening NO	min	 0	1 <i>E</i>
			min	ms	15
		Obstant NO	max	ms	19
		Closing NC	-		0.4
			min	ms	24
			max	ms	30
		Opening NC			
			min	ms	67
			max	ms	81
UL technical data					
Full-load current (FLA)	for three-phase AC i	motor			
			at 480V	Α	14
			at 600V	Α	17
Yielded mechanical pe	rformance				
•	for single-phase AC	C motor			
	G F		110/120V	HP	1
			230V	HP	3
	for three-phase AC	motor	200 V		
	ioi uiiee-piiase AC	motor	200/208V	HP	5
					5
			220/230V	HP	5
			460/480V	HP	10
			575/600V	HP	15
General USE					

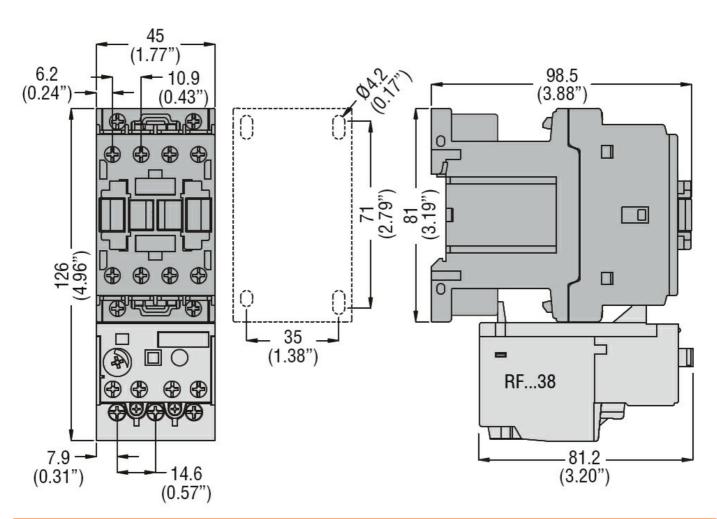
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Contactor			
	AC current	Α	32
Auxiliary contacts			
	AC voltage	V	600
	AC current	Α	10
	DC voltage	V	250
	DC current	Α	1
Short-circuit protection fuse, 600V			
High fault			
	Short circuit current	kA	100
	Fuse rating	Α	60
	Fuse class		J
Standard fault			
	Short circuit current	kA	5
	Fuse rating	Α	80
Contact rating of auxiliary contacts according to UL			A600 - P600
Ambient conditions			
Temperature			
Operating temperature			
	min	°C	-50
	max	°C	70
Storage temperature			
	min	°C	-60
	max	°C	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3

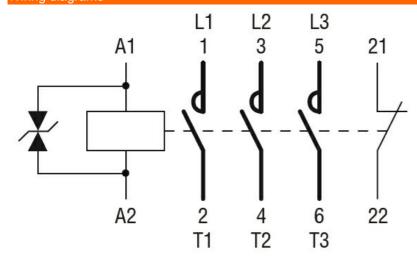
Dimensions

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Wiring diagrams



Certifications and compliance

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



BF1801L024

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CCC	
cULus	
EAC	

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching