



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 40A, AC COIL 60HZ, 48VAC



Product designation			Power contactor
Product type designation			BF40
Contact characteristics			
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operational frequency			_
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		Α	70
Operational current le			_
	AC-1 (≤40°C)	Α	70
	AC-1 (≤55°C)	Α	60
	AC-1 (≤70°C)	Α	50
	AC-3 (≤440V ≤55°C)	Α	40
	AC-4 (400V)	Α	24
Rated operational power AC-3 (T≤55°C)			
	230V	kW	11
	400V	kW	18.5
	415V	kW	22
	440V	kW	22
	500V	kW	22
	690V	kW	30
	1000V	kW	22
Rated operational current AC-3 (T≤55°C)			
	230V	Α	40
	400V	Α	40
	415V	Α	40
	440V	Α	40
	500V	Α	33
	690V	Α	32
	1000V	Α	21
Rated operational power AC-1 (T≤40°C)			
	230V	kW	26
	400V	kW	46
	500V	kW	58
	690V	kW	79
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
·	≤24V	Α	40
	48V	Α	35
	75V	Α	30
	110V	Α	8
	220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	<u> </u>		
, , , , , , , , , , , , , , , , , , , ,	≤24V	Α	48
	_ · •	•	





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	48V	Α	48
	75V	Α	45
	110V	Α	42
	220V	Α	5
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
	≤24V	Α	48
	48V	Α	48
	75V	A	48
	110V	Α	44
	220V	A	56
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series	220 V		
ILO max current le in DOT with L/N = mis with 4 poles in series	≤24V	۸	
	≥24 V 48 V	A	-
		A	_
	75V	Α	_
	110V	Α	_
	220V	Α	70
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	Α	27
	48V	Α	23
	75V	Α	19
	110V	Α	3
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	Α	32
	48V	Α	30
	75V	Α	27
	110V	Α	22
	220V	Α	5
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	2201		
120 max durient to in 200 200 with 2/10 = 10mb with 0 poles in series	≤24V	Α	40
	48V	A	40
	75V		
		A	38
	110V	A	27
150	220V	Α	32
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	40.41.4		
	≤24V	Α	_
	48V	Α	_
	75V	Α	_
	110V	Α	_
	220V	Α	40
Short-time allowable current for 10s (IEC/EN60947-1)		Α	400
Protection fuse			
	gG (IEC)	Α	100
	aM (IEC)	Α	50
Making capacity (RMS value)		Α	400
Breaking capacity at voltage			
	440V	Α	320
	500V	Α	265
	690V	Α	256
Resistance per pole (average value)		mΩ	0.8
Power dissipation per pole (average value)		2	
sicospanos, por poso (arolago raido)	Ith	W	3.9
	AC-3	W	1.3
Tightening torque for terminals	AC-3	V V	1.0
rightening torque for terminals			





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		min	Nm	4
		max	Nm	5
		min	lbin	2.95
		max	Ibin	3.69
Tightening torque for	coil terminal			
		min	Nm	0.8
		max	Nm	1
		min	Ibin	0.8
		max	Ibin	0.74
Max number of wires	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
	/ W G/Rollin	max		2
	Flexible w/o lug conductor section	max		
	r lexible w/o lug corludctor section	min	mm²	1.5
			mm²	35
	Florible alvelus conductor costion	max	111111	30
	Flexible c/w lug conductor section	ساميد	mm²	1 5
		min	mm²	1.5 35
Davis a tamaia al musta	-ti	max	mm²	
	ction according to IEC/EN 60529			IP20 front
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail
				35mm
Weight			g	1020
Operations				
Mechanical life			cycles	15000000
Electrical life			cycles	1500000
Safety related data				
Performance level B1	0d according to EN/ISO 13489-1			
		rated load	cycles	1500000
		mechanical load	cycles	15000000
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 6	60Hz		V	48
AC operating voltage				
	of 60Hz coil powered at 60Hz			
	pick-up			
	• •	min	%Us	80
		max	%Us	110
	drop-out			
	-1	min	%Us	20
		max	%Us	55
AC average coil cons	umption at 20°C			-
	of 60Hz coil powered at 60Hz			
	5. 501 12 5011 poworod at 501 12	in-rush	VA	210
		holding	VA VA	15
Discination at halding	<30°C EUH-	noluling	W	5
Dissipation at holding			VV	ິນ
Max cycles frequency			evels: //	2000
Mechanical operation			cycles/h	36UU
Operating times				



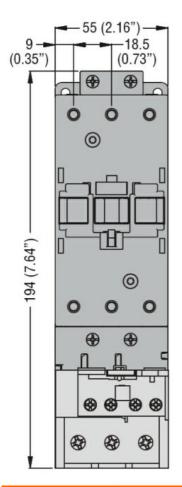


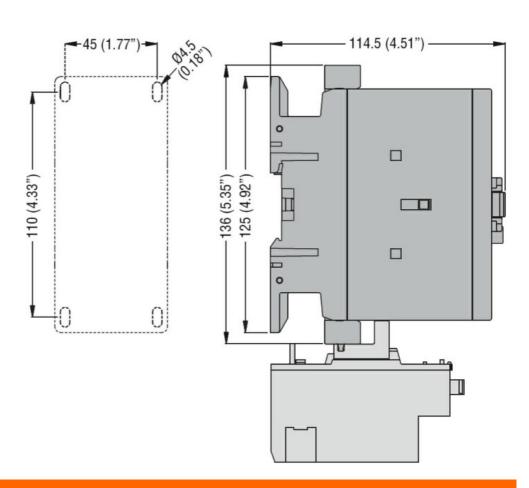
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Average time for Us c	control				
•	in AC				
		Closing NO			
			min	ms	12
			max	ms	28
		Opening NO			
			min	ms	8
			max	ms	22
	in DC				
		Closing NO			
			min	ms	40
			max	ms	85
		Opening NO			
			min	ms	20
			max	ms	55
UL technical data					
Rated operational volt				V	600
Full-load current (FLA	A) for three-phase AC	motor			
			at 480V	Α	40
			at 600V	Α	32
Yielded mechanical po					
	for single-phase A	AC motor			
			110/120V	HP	3
			230V	HP	7.5
	for three-phase A	C motor			
			200/208V	HP	10
			220/230V	HP	15
			460/480V	HP	30
			575/600V	HP	30
General USE					
	Contactor				
			AC current	Α	70
Short-circuit protection					
	High fault				
			Short circuit current	kA	100
			Fuse rating	Α	150
	0(116-16		Fuse class		J
	Standard fault		Object along the control	1. 4	_
			Short circuit current	kΑ	5
			Fuse rating Fuse class	Α	150 RK5
Ambient conditions			ruse class		NNO
Temperature					
remperature	Operating temperating	atura			
	Operating temper	aluic	min	°C	-50
			max	°C	70
	Storage temperate	Uro	IIIaX		10
	Storage temperati	uiō	min	°C	-60
			max	°C	80
Max altitude			IIIaX	m	3000
Resistance & Protecti	ion			111	3000
Pollution degree	OIT				3
Dimensions					J
Dimonalona -					

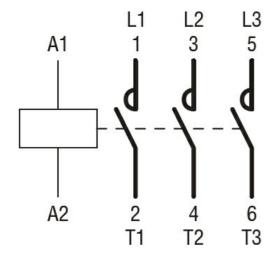


ENERGY AND AUTOMATION





Wiring diagrams



Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN/BS 60947-1

IEC/EN/BS 60947-4-1

UL 60947-1

UL 60947-4-1

Certificates

CCC



BF4000A04860

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cULus

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching