THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 40A, AC COIL 50/60HZ, 230VAC



Product designation Power contactor Product type designation BF40

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 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			
	≤24V	Α	48
	48V	Α	48
	75V	Α	45
	110V	A	42
	220V	A	5
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	220 V	, ,	
TEO MAX CANONICIO IN DOT WITH E/IX = TINO WITH O POICS IN SCHOO	<24)/	Α	48
·	C 12 17		
·	≤24V 48V		
	≤24V 48V 75V	A A	48 48



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	110V	Α	44	
	220V	Α	56	
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series				
	≤24V	Α	_	
	48V	Α	_	
	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				
	≤24V	Α	40	
	48V	Α	40	
	75V	A	38	
	110V	A	27	
	220V	A	32	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	220 V		- 02	
TEO MAX GATICITE IN 1800 800 WILL ETC = TOTAL WILL 4 POICE IN SCHOOL	≤24V	Α	_	
	48V	A	_	
	75V	A	_	
	110V	A	_	
	220V	Α	40	
Short-time allowable current for 10s (IEC/EN60947-1)	2201	A	400	
Protection fuse			400	
1 Totection ruse	gG (IEC)	Α	100	
	aM (IEC)	A	50	
Making capacity (RMS value)	aivi (IEC)		400	
Breaking capacity at voltage		^	400	
breaking capacity at voltage	440\/	٨	220	
	440V 500V	A	320	
		A	265 256	
Posistance per pole (everage value)	690V	A	256	
Resistance per pole (average value)		mΩ	0.8	
Power dissipation per pole (average value)	141	147	0.0	
	Ith	W	3.9	
Title die teer of teeleriste.	AC3	W	1.3	
Tightening torque for terminals				
	min	Nm	4	
	max	Nm	5	
	min	lbin	2.95	
	max	lbin	3.69	
Tightening torque for coil terminal				
	min	Nm	0.8	
	max	Nm	1	



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	min	Ibin	0.8
	max	Ibin	0.74
imultaneously connectable		Nr.	2
AWG/Kcmil			_
·	max		2
Flexible w/o lug conductor section		2	
			1.5
Clavible about a seed categories	max	mm²	35
Flexible c/w lug conductor section	min	mama ²	1 E
			1.5 35
tion according to IEC/EN 60520	IIIdX	111111	IP20 front
tion according to IEC/EN 60329			IP20 HOHL
	normal		Vertical plan
			±30°
	anowabic		Screw / DIN rail
			35mm
		g	1020
AWG/kcmil conductor section			
	max		2
		cycles	15000000
		cycles	1500000
0d according to EN/ISO 13489-1			
	rated load	cycles	1500000
	mechanical load	cycles	15000000
ng to IEC/EN 609474-4-1			yes
			yes
0/60Hz		V	230
pick-up			
			80
	max	%Us	110
drop-out	•	0/11-	00
			20
of FO/COLLE and november of COLLE	max	%US	55
·			
ріск-ир	min	0/110	85
			110
dron-out	IIIdX	/005	110
αιορ-οαι	min	%l le	40
			55
	max	,,,,,	
·			
3. 35/35/12 35/1 poworod at 30/12	in-rush	VA	210
	holding	VA	15
	0d according to EN/ISO 13489-1 ng to IEC/EN 609474-4-1	AWG/Kcmil AWG/Kcmil Flexible w/o lug conductor section Flexible c/w lug conductor section min max Flexible c/w lug conductor section min max tion according to IEC/EN 60529 AWG/kcmil conductor section AWG/kcmil conductor section max Od according to EN/ISO 13489-1 rated load mechanical load ong to IEC/EN 609474-4-1 O/60Hz of 50/60Hz coil powered at 50Hz pick-up min max drop-out min max of 50/60Hz coil powered at 60Hz pick-up min max drop-out min max	Max Ibin Nr.



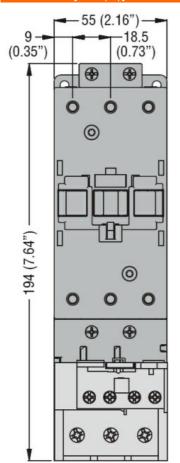
THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 40A, AC COIL 50/60HZ,

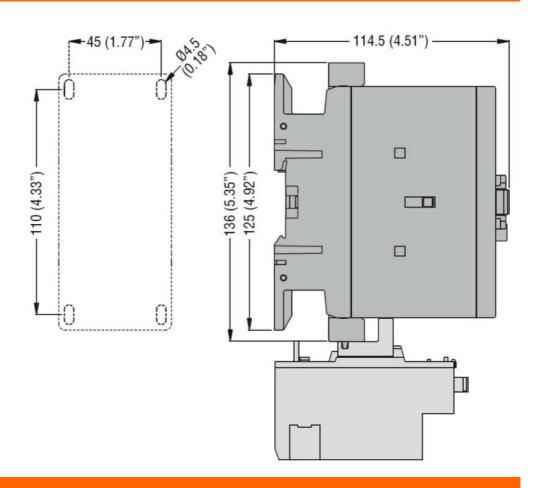
	of 50/60Hz coil powered at 60Hz			
	of 30/00112 con powered at our iz	in-rush	VA	195
		holding	VA	13
	of 60Hz coil powered at 60Hz	Tiolding	٧٨	10
	of bonz coil powered at bonz	in-rush	VA	210
Dissipation at halding a	20°C FOLI-	holding	VA W	<u>15</u>
Dissipation at holding ≤	\$20 C 50H2		VV	3
Max cycles frequency			avalaa/b	2000
Mechanical operation			cycles/h	3600
Operating times	natural.			
Average time for Us co				
	in AC			
	Closing NO			
		min	ms	12
	0 1 110	max	ms	28
	Opening NO			_
		min	ms	8
		max	ms	22
UL technical data				
Full-load current (FLA)	for three-phase AC motor			
		at 480V	Α	40
		at 600V	Α	32
Yielded mechanical pe	rformance			
	for single-phase AC motor			
		110/120V	HP	3
		230V	HP	7.5
	for three-phase AC 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	fuse, 600V			
•	High fault			
		Short circuit current	kA	100
		Fuse rating	Α	150
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	Α	150
		Fuse class	-	RK5
Ambient conditions		. 200 0.000		
Temperature				
. 1	Operating temperature			
	-1	min	°C	-50
		max	°C	70
	Storage temperature	max		
	Storago temperature	min	°C	-60
		max	°C	80
Max altitude		IIIdX		3000
Resistance & Protection	<u> </u>		m	3000
				3
Pollution degree				<u>J</u>



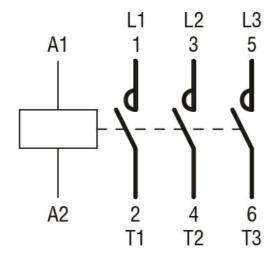
ENERGY AND AUTOMATION

Dimensions [mm (in)]





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



BF4000A230

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CCC
cULus

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching