

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



Product designation			Power contactor
Product type designation			BF40
Contact characteristics			20
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operational frequency			
Sporational modulonoy	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
150 H. J. B. M. H. J. S. J.	220V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			40
	≤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	220 V		
120 max current le in 201 with 2/1 = mis with 5 poles in series	≤24V	Α	48
	48V	Α	48
	75V	Α	48
	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	A	_
150 H. J. BOO BOO W. L. B. J.	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	2201		
TEO THAN CUITCHE III DOS-DOS WILL ETT 2 TOTAS WILL 2 POLES III SELLES	<04)/	۸	20
	≤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	Α	38
	110V	A	27
	220V	Α	32
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	Α	_
	48V	Α	_
	75V	Α	_
	110V	Α	_
	220V	Α	40
Short-time allowable current for 10s (IEC/EN60947-1)	<u> </u>	Α	400
Protection fuse			
. 10.00.0111000	gG (IEC)	Α	100
Malina and attached (DMO color)	aM (IEC)	A	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)			
. S. S. Glosipation por poro (avorago valuo)	Ith	W	3.9
Tightening torque for terminals	AC-3	W	1.3





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		min	Nm	4
		max	Nm	5
		min	Ibin	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			
		max		2
	Flexible w/o lug conductor section			
		min	mm²	1.5
		max	mm²	35
	Flexible c/w lug conductor section	Пах		
	s.asic s, it lag contactor couldn	min	mm²	1.5
		max	mm²	35
Power terminal protect	ction according to IEC/EN 60529	IIIdX	111111	IP20 front
Mechanical features	ction according to IEC/EN 60329			IP20 HOHL
Operating position				\/anticol mlan
		normal		Vertical plan ±30°
		allowable		
Fixing				Screw / DIN rail 35mm
Weight				
WEIGHT				
			g	1020
Conductor section	NWO # 11 1 1 1 1 1		g	1020
	AWG/kcmil conductor section		g	
Conductor section	AWG/kcmil conductor section	max	g	2
Conductor section Operations	AWG/kcmil conductor section	max		2
Conductor section Operations Mechanical life	AWG/kcmil conductor section	max	cycles	2 15000000
Conductor section Operations Mechanical life Electrical life	AWG/kcmil conductor section	max		2
Operations Mechanical life Electrical life Safety related data		max	cycles	2 15000000
Operations Mechanical life Electrical life Safety related data	AWG/kcmil conductor section 10d according to EN/ISO 13489-1		cycles cycles	2 15000000 1500000
Operations Mechanical life Electrical life Safety related data		rated load	cycles cycles	2 15000000 1500000
Operations Mechanical life Electrical life Safety related data Performance level B1	10d according to EN/ISO 13489-1		cycles cycles	2 15000000 1500000
Conductor section Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accord		rated load	cycles cycles	2 15000000 1500000
Conductor section Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accord EMC compatibility	10d according to EN/ISO 13489-1	rated load	cycles cycles	2 15000000 1500000 1500000 15000000
Conductor section Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accord	10d according to EN/ISO 13489-1	rated load	cycles cycles	2 15000000 1500000 1500000 15000000 yes
Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accord EMC compatibility	10d according to EN/ISO 13489-1 ling to IEC/EN 609474-4-1	rated load	cycles cycles	2 15000000 1500000 1500000 15000000 yes
Conductor section Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accord EMC compatibility AC coil operating	10d according to EN/ISO 13489-1 ling to IEC/EN 609474-4-1	rated load	cycles cycles cycles cycles	2 15000000 1500000 1500000 15000000 yes yes
Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 6	10d according to EN/ISO 13489-1 ling to IEC/EN 609474-4-1	rated load	cycles cycles cycles cycles	2 15000000 1500000 1500000 15000000 yes yes
Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 6	10d according to EN/ISO 13489-1 ling to IEC/EN 609474-4-1	rated load	cycles cycles cycles cycles	2 15000000 1500000 1500000 15000000 yes yes
Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 6	10d according to EN/ISO 13489-1 ling to IEC/EN 609474-4-1 60Hz of 60Hz coil powered at 60Hz	rated load	cycles cycles cycles cycles	2 15000000 1500000 1500000 15000000 yes yes
Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 6	10d according to EN/ISO 13489-1 ling to IEC/EN 609474-4-1 60Hz of 60Hz coil powered at 60Hz	rated load mechanical load	cycles cycles cycles cycles	2 15000000 1500000 15000000 15000000 yes yes
Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 6	10d according to EN/ISO 13489-1 ling to IEC/EN 609474-4-1 60Hz of 60Hz coil powered at 60Hz pick-up	rated load mechanical load min	cycles cycles cycles cycles	2 15000000 1500000 15000000 yes yes 48
Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 6	10d according to EN/ISO 13489-1 ling to IEC/EN 609474-4-1 60Hz of 60Hz coil powered at 60Hz	rated load mechanical load min	cycles cycles cycles v	2 15000000 1500000 15000000 yes yes 48
Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 6	10d according to EN/ISO 13489-1 ling to IEC/EN 609474-4-1 60Hz of 60Hz coil powered at 60Hz pick-up	rated load mechanical load min max min	cycles cycles cycles v V %Us %Us %Us	2 15000000 1500000 15000000 15000000 yes yes 48 80 110 20
Conductor section Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 6 AC operating voltage	of 60Hz coil powered at 60Hz pick-up	rated load mechanical load min max	cycles cycles cycles cycles	2 15000000 1500000 15000000 yes yes 48
Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 6	of 60Hz coil powered at 60Hz pick-up drop-out	rated load mechanical load min max min	cycles cycles cycles v V %Us %Us %Us	2 15000000 1500000 15000000 15000000 yes yes 48 80 110 20
Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 6 AC operating voltage	of 60Hz coil powered at 60Hz pick-up	rated load mechanical load min max min max	cycles cycles cycles v Wus %Us %Us %Us %Us	2 15000000 1500000 15000000 15000000 yes yes 48 80 110 20 55
Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 6 AC operating voltage	of 60Hz coil powered at 60Hz pick-up drop-out	rated load mechanical load min max min	cycles cycles cycles v V %Us %Us %Us	2 15000000 1500000 15000000 15000000 yes yes 48 80 110 20



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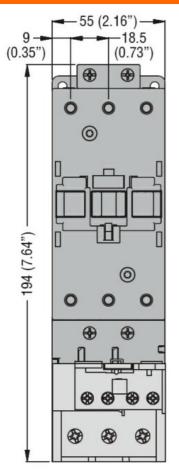
Dissipation at holding	≤20°C 50Hz			W	5
Max cycles frequency					
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us co	in AC				
		osing NO			
	Oli	osing NO	min	ms	12
			max	ms	28
	Or	pening NO		•	
	·	· ·	min	ms	8
			max	ms	22
	in DC				
	Cle	osing NO			
			min	ms	40
			max	ms	85
	Op	pening NO			
			min	ms	20
II to obvioal data			max	ms	55
JL technical data	for three phase AC mater				
ruil-ioau current (FLA)	for three-phase AC motor		at 480V	Α	40
			at 600V	A	32
Yielded mechanical pe	erformance		at 000 v		32
riciaca meenamear pe	for single-phase AC motor				
	Tor oringio pridoo 710 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					
	High fault				400
			Short circuit current	kA ^	100
			Fuse rating	Α	150
	Standard fault		Fuse class		J
	Gianuaiu Iduli		Short circuit current	kA	5
			Fuse rating	A	150
			Fuse class	, ,	RK5
Ambient conditions					
Temperature					
	Operating temperature				
	, ,		min	°C	-50
			max	°C	70
	Storage temperature				
			min	°C	-60
			max	°C	80
Max altitude					3000

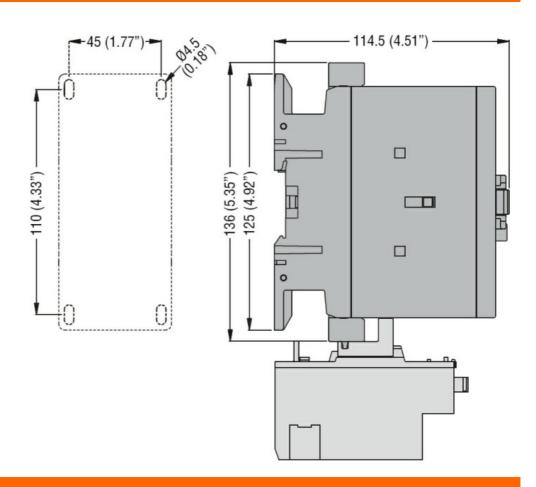
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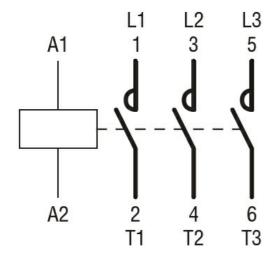
Pollution degree 3

Dimensions





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



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BF4000A04860

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

Certificates			
	CCC		
	cULus		
ETIM alassitisatis			

ETIM classification

EC000066 -ETIM 8.0 Power contactor, AC switching