

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 40A, AC COIL 60HZ, 220VAC



			30 10 10
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			40
	≤24V	A	40
	48V	A	35
	75V	A	30
	110V	A	8
IFO many assemble in DOA with 1/D Adversary 1/1 Oc. 1	220V	A	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	-0.11.1	Α.	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	-		
	≤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	2201		
120 max danoni io in 201 with 2/1 = 1mo with 1 poloc in donoc	≤24V	Α	_
	48V	Α	_
	75V	A	_
	110V	A	_
	220V	A	- 70
IFC may ourrent to in DC2 DC5 with L/D < 15mg with 1 notes in coring	220 V	^	70
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series	ZOAL/	٨	27
	≤24V	A	27
	48V	A	23
	75V	A	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	Α	38
	110V	Α	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	A	_
	220V	Α	40
Short-time allowable current for 10s (IEC/EN60947-1)		A	400
Protection fuse			
	gG (IEC)	Α	100
	aM (IEC)	A	50
Making capacity (RMS value)	aivi (ILO)	A	400
Breaking capacity (Kins value)			- 1 00
breaking capacity at voltage	440V	۸	320
		A	
	500V	A	265
Decistance per pole (everges value)	690V	A	256
Resistance per pole (average value)		mΩ	0.8
Power dissipation per pole (average value)	1.1	147	0.0
	Ith	W	3.9
	AC-3	W	1.3
Tightening torque for terminals			





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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			
	s.asic s, it lay contactor couldn	min	mm²	1.5
		max	mm²	35
Power terminal protect	ction according to IEC/EN 60529	IIIdX	171111	IP20 front
Mechanical features	ction according to IEC/EN 60329			IFZU IIUIIL
Operating position				Vertical plan
		normal		Vertical plan ±30°
		allowable		
Fixing				Screw / DIN rail 35mm
Weight				1020
WEIGH				
			g	1020
Conductor section	ANAC (Incomit and Australian and Incomi		<u> </u>	1020
	AWG/kcmil conductor section		<u> </u>	
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 1500000 15000000
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 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	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 yes yes 220
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 15000000 yes yes 220
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 15000000 yes yes 220
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 220
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 v	2 15000000 1500000 15000000 yes yes 220
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 220
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 min max	cycles cycles cycles v Wus %Us %Us %Us %Us	2 15000000 1500000 15000000 15000000 yes yes 220 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 220



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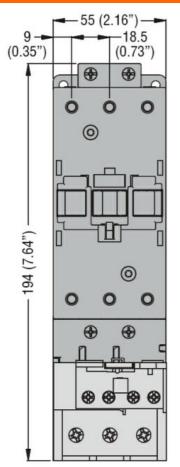
Dissipation at holding ≤	20°C 50Hz		W	5
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us co				
	in AC			
	Closing NO	min	mo	12
		max	ms ms	28
	Opening NO	IIIax	1115	20
	Opening NO	min	ms	8
		max	ms	22
	in DC	max	1113	
	Closing NO			
	Closing NO	min	ms	40
		max	ms	85
	Opening NO	IIIdX	1113	00
	Opening NO	min	ms	20
		max	ms	55
UL technical data		Пах	1113	33
	for three-phase AC motor			
. an load outlott (I LA)	ioi ando phado No motor	at 480V	Α	40
		at 600V	A	32
Yielded mechanical per	formance	ut 000 v		
riciaca mediameai per	for single-phase AC motor			
	Tot single-phase Ac motor	110/120V	HP	3
		230V	HP	7.5
	for three-phase AC motor	230 V	111	7.5
	Tol tillee-pliase AC motol	200/208V	HP	10
		220/230V	HP	15
		460/480V	HP	30
		575/600V	HP	30
General USE		07070001	- ' ''	
Ochoral OOL	Contactor			
	Contactor	AC current	Α	70
Short-circuit protection	fuso 600V	AC current		70
Chort-ondait protection	High fault			
	riigiriault	Short circuit current	kA	100
		Fuse rating	A	150
		Fuse class	$\overline{\Lambda}$	J
	Standard fault	1 436 01433		
	Standard Iddit	Short circuit current	kA	5
		Fuse rating	A	150
		Fuse class	, ,	RK5
Ambient conditions		. 255 0,255		
Temperature				
	Operating temperature			
	epotating temperature	min	°C	-50
		max	°C	70
	Storage temperature	max		. •
	Clorago temperaturo	min	°C	-60
		max	°C	80
Max altitude		max		3000
Resistance & Protectio	n			
1.00.014.100 4.1 1010010				

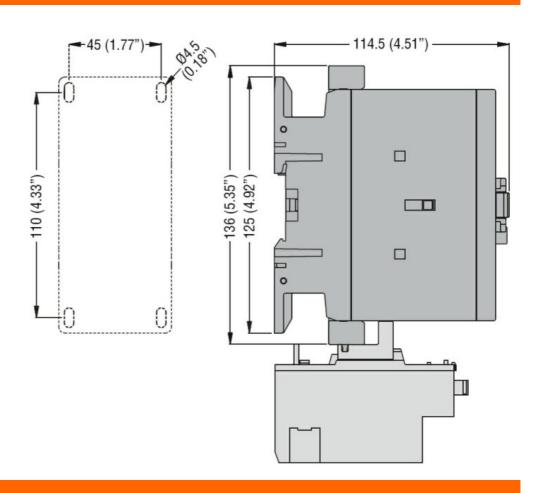
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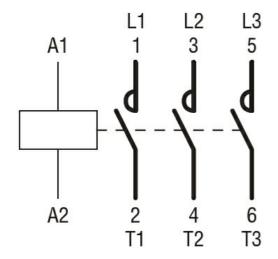
Pollution degree 3

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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BF4000A22060

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Certificates				
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ETIM elegationtic	n .			

ETIM 8.0

EC000066 -Power contactor, AC switching