

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 40A, AC COIL 60HZ, 460VAC



			30 10 15
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			
	≤24V	Α	48





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	48V	Α	48
	75V	Α	45
	110V	A	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
		A	56
150 11 : B04 : 11 1 /B 44 : 11 4 1 : : :	220V	A	30
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
IFC may current le in DC2 DC5 with L/D < 15mg with 1 nelse in series	220 V		
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series	.0.0.1		27
	≤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	220 1	- / \	
TEC max current le in DC3-DC3 with L/N = 13ms with 2 poles in series	10.43.7		00
	≤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			
120 max current to in 200-200 with 27(2 forms with 5 poics in 30103	<04)/	۸	40
	≤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			
TEO MAX CANONCIO IN BOO BOO WAT ETC = TOTAL WALL I POIGO IN CONOC	≤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
	• , ,		
TO 1.1	aM (IEC)	Α	50
Making capacity (RMS value)		Α	400
Breaking capacity at voltage			
	440V	Α	320
	500V	Α	265
	690V	Α	256
Desigtance nor note (every go value)	090 v		
Resistance per pole (average value)		mΩ	0.8
Power dissipation per pole (average value)			
	Ith	W	3.9
	AC-3	W	1.3
Tightening torque for terminals			
<u> </u>			





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		min	Nm	4
		max	Nm	5
		min	Ibin	2.95
		max	lbin	3.69
Tightening torque for	coil terminal			
		min	Nm	0.8
		max	Nm	1
		min	Ibin	0.8
		max	lbin	0.74
Max number of wires	simultaneously connectable		Nr.	2
Conductor section	·			
	AWG/Kcmil			
		max		2
	Flexible w/o lug conductor section			
	Tionible W/e lag contactor coolen	min	mm²	1.5
		max	mm²	35
	Flexible c/w lug conductor section	Παλ	111111	
	Flexible C/W lug conductor section	min	mm²	1.5
		min		35
Dawar tarminal protect	ation according to IEC/EN COECO	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
Conductor section				
Conductor section				
Conductor Section	AWG/kcmil conductor section			
Conductor Section	AWG/kcmil conductor section	max		2
Operations Operations	AWG/kcmil conductor section	max		2
	AWG/kcmil conductor section	max	cycles	15000000
Operations	AWG/kcmil conductor section	max	cycles cycles	
Operations Mechanical life	AWG/kcmil conductor section	max		15000000
Operations Mechanical life Electrical life Safety related data		max		15000000
Operations Mechanical life Electrical life Safety related data	AWG/kcmil conductor section Od according to EN/ISO 13489-1		cycles	15000000 1500000
Operations Mechanical life Electrical life Safety related data		rated load	cycles	1500000 1500000 1500000
Operations Mechanical life Electrical life Safety related data Performance level B1	0d according to EN/ISO 13489-1		cycles	1500000 1500000 1500000 15000000
Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats according		rated load	cycles	1500000 1500000 1500000 15000000 yes
Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats according	0d according to EN/ISO 13489-1	rated load	cycles	1500000 1500000 1500000 15000000
Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating	0d according to EN/ISO 13489-1 ing to IEC/EN 609474-4-1	rated load	cycles cycles cycles	1500000 1500000 1500000 15000000 yes yes
Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 6	0d according to EN/ISO 13489-1 ing to IEC/EN 609474-4-1	rated load	cycles	1500000 1500000 1500000 15000000 yes
Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating	Od according to EN/ISO 13489-1 ing to IEC/EN 609474-4-1	rated load	cycles cycles cycles	1500000 1500000 1500000 15000000 yes yes
Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 6	Od according to EN/ISO 13489-1 ing to IEC/EN 609474-4-1 60Hz of 60Hz coil powered at 60Hz	rated load	cycles cycles cycles	1500000 1500000 1500000 15000000 yes yes
Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 6	Od according to EN/ISO 13489-1 ing to IEC/EN 609474-4-1	rated load mechanical load	cycles cycles cycles	1500000 1500000 1500000 15000000 yes yes
Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 6	Od according to EN/ISO 13489-1 ing to IEC/EN 609474-4-1 60Hz of 60Hz coil powered at 60Hz	rated load mechanical load min	cycles cycles cycles	1500000 1500000 1500000 15000000 yes yes 460
Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 6	Od according to EN/ISO 13489-1 ing to IEC/EN 609474-4-1 60Hz of 60Hz coil powered at 60Hz pick-up	rated load mechanical load	cycles cycles cycles	1500000 1500000 1500000 15000000 yes yes
Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 6	Od according to EN/ISO 13489-1 ing to IEC/EN 609474-4-1 60Hz of 60Hz coil powered at 60Hz	rated load mechanical load min max	cycles cycles cycles	1500000 1500000 1500000 15000000 yes yes 460
Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 6	Od according to EN/ISO 13489-1 ing 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 %Us %Us %Us	1500000 1500000 1500000 15000000 yes yes 460
Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 6 AC operating voltage	Od according to EN/ISO 13489-1 ing to IEC/EN 609474-4-1 60Hz of 60Hz coil powered at 60Hz pick-up drop-out	rated load mechanical load min max	cycles cycles cycles	1500000 1500000 1500000 15000000 yes yes 460
Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 6	Od according to EN/ISO 13489-1 ing to IEC/EN 609474-4-1 60Hz of 60Hz coil powered at 60Hz pick-up drop-out	rated load mechanical load min max min	cycles cycles cycles V %Us %Us %Us	1500000 1500000 1500000 15000000 yes yes 460
Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 6 AC operating voltage	Od according to EN/ISO 13489-1 ing to IEC/EN 609474-4-1 60Hz of 60Hz coil powered at 60Hz pick-up drop-out	rated load mechanical load min max min max	cycles cycles cycles V %Us %Us %Us %Us %Us	1500000 1500000 1500000 15000000 yes yes 460 80 110 20 55
Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 6 AC operating voltage	Od according to EN/ISO 13489-1 ing to IEC/EN 609474-4-1 60Hz of 60Hz coil powered at 60Hz pick-up drop-out	rated load mechanical load min max min max in-rush	cycles cycles cycles V	1500000 1500000 1500000 15000000 yes yes 460 80 110 20 55
Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 6 AC operating voltage	Od according to EN/ISO 13489-1 ing to IEC/EN 609474-4-1 60Hz of 60Hz coil powered at 60Hz pick-up drop-out	rated load mechanical load min max min max	cycles cycles cycles V %Us %Us %Us %Us %Us	1500000 1500000 1500000 15000000 yes yes 460 80 110 20 55





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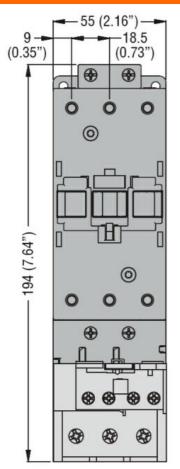
Dissipation at holding	<20°C 50Hz		W	5
Max cycles frequency	320 C 301 IZ		VV	3
Mechanical operation			cycles/h	3600
Operating times			0,0100,11	
Average time for Us co	ontrol			
	in AC			
	Closing NO			
	· ·	min	ms	12
		max	ms	28
	Opening NO			
		min	ms	8
		max	ms	22
	in DC			
	Closing NO			
		min	ms	40
		max	ms	85
	Opening NO			
		min	ms	20
		max	ms	55
UL technical data				
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				
	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				
Temperature				
	Operating temperature		^ -	
		min	°C	-50
	-	max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protection	on			

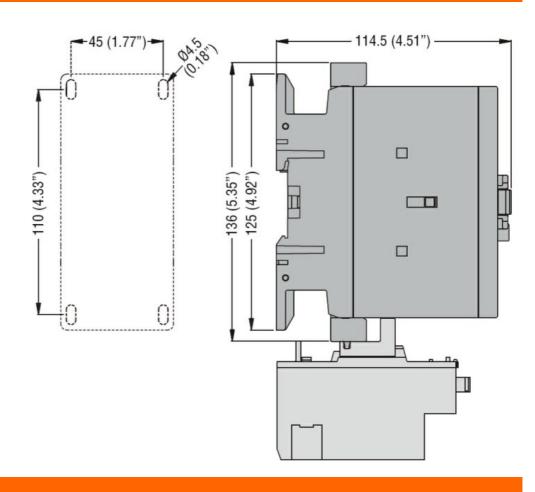
ENERGY AND AUTOMATION

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

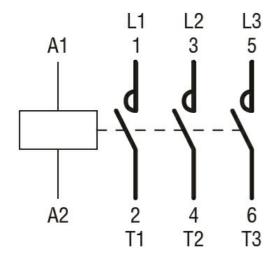
Pollution degree 3

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



BF4000A46060

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

Certificates			
	CCC		
	cULus		
ETIMA I 100 C			

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching