



Product designation			Power contacto
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		А	70
Operational current le			
	AC-1 (≤40°C)	А	70
	AC-1 (≤55°C)	А	60
	AC-1 (≤70°C)	А	50
	AC-3 (≤440V ≤55°C)	А	40
	AC-4 (400V)	А	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	18.5
Rated operational current AC-3 (T≤55°C)			
	230V	А	40
	400V	А	40
	415V	А	40
	440V	А	40
	500V	А	33
	690V	А	32
	1000V	А	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 $L/R \le 1$ ms with 1 poles in series			
	≤24V	А	40
	48V	А	35
	75V	А	30
	110V	А	8
	220V	А	_

≤24V

48

А



BF4000E110 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC 2

C3) = 40A, /	AC/DC COIL,
60.	110VAC/DC

	48V	А	48
	75V	Α	45
	110V	А	42
	220V	А	5
EC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			
	≤24V	А	48
	48V	А	48
	75V	А	48
	110V	A	44
	220V	A	56
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series	2201		00
	≤24V	А	_
	48V	A	
	48V 75V	A	_
			_
	110V	A	-
	220V	A	70
EC max current le in DC3-DC5 with L/R $\leq$ 15ms with 1 poles in series			07
	≤24V	A	27
	48V	А	23
	75V	Α	19
	110V	Α	3
	220V	Α	_
EC max current le in DC3-DC5 with $L/R \le 15$ ms with 2 poles in series			
	≤24V	Α	32
	48V	А	30
	75V	А	27
	110V	А	22
	220V	А	5
EC max current le in DC3-DC5 with L/R $\leq$ 15ms with 3 poles in series			-
	≤24V	А	40
	48V	A	40
	75V	A	38
	110V	A	27
	220V	A	32
EC max current le in DC3-DC5 with L/R $\leq$ 15ms with 4 poles in series	220 V	A	32
EC max current le in DC3-DC3 with E/K = 15ms with 4 poles in series	≤24V	۸	
		A	—
	48V	A	_
	75V	A	_
	110V	A	-
	220V	A	40
Short-time allowable current for 10s (IEC/EN60947-1)		Α	400
Protection fuse			
	gG (IEC)	А	100
	aM (IEC)	Α	50
Making capacity (RMS value)		Α	400
Breaking capacity at voltage			
	440V	А	320
	500V	А	265
	690V	A	256
Resistance per pole (average value)		mΩ	0.8
Power dissipation per pole (average value)			510
	lth	W	3.9
		V V	. 1 . 71
	AC-3	Ŵ	1.3



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		min	Nm	4
		max	Nm	5
		min	Ibin	2.95
		max	Ibin	3.69
Tightening torque for a	coil terminal	Шал		5.03
			Nim	0.0
		min	Nm	0.8
		max	Nm	1
		min	Ibin	0.8
Man and a set of the set		max	Ibin	0.74
	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			
		min	mm²	1.5
		max	mm²	35
Power terminal protect	tion according to IEC/EN 60529			IP20 front
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fiving				Screw / DIN rail
Fixing				35mm
Weight			g	1060
Conductor section				
	AWG/kcmil conductor section			
		max		2
Operations				
Mechanical life			cycles	15000000
Electrical life			cycles	1500000
Safety related data			-,	
	0d according to EN/ISO 13489-1			
		rated load	cycles	1500000
		mechanical load	cycles	15000000
Mirror contats accordi	ng to IEC/EN 609474-4-1		0)0.00	yes
EMC compatibility				yes
AC coil operating				yes
Rated AC voltage at 5				
Nated AO Voltage at 5		min	V	60
		max	V	110
AC operating voltage		Шах	v	110
AC operating voltage	of EQ/COLLE and noward at EQUE			
	of 50/60Hz coil powered at 50Hz			
	pick-up	<b>'</b> -	0/11-	90 L lai-a
		min	%Us	80 Us min
	1 <i>.</i> .	max	%Us	110 Us max
	drop-out		0/17	
		max	%Us	≤70 Us min
	of 50/60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	80 Us min

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THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 40A, AC/DC COIL, 60...110VAC/DC

				0/11	440.11
			max	%Us	110 Us max
		drop-out			
			max	%Us	≤70 Us min
AC average coil consu	•				
	of 50/60Hz coil powe	ered at 50Hz			
			in-rush	VA	35120
			holding	VA	1.53.7
	of 50/60Hz coil powe	ered at 60Hz			
			in-rush	VA	35120
			holding	VA	1.53.7
Dissipation at holding ≤	≤20°C 50Hz			W	12.5
DC coil operating					
DC rated control voltage	je				
C C	·		min	V	60
			max	V	110
DC operating voltage					-
De operating relage	pick-up				
	plot up		min	%Us	80 Us min
			max	%Us	110 Us max
	drop-out		IIIdA	/003	110 03 max
	ulop-out		may	%Us	≤70 Us min
Average coil consumpt	tion <20°C		max	/005	270 05 11111
Average coll consumpl	$1011 \ge 20$ C		in much	147	00 00
			in-rush	W	2368
			holding	W	1.21,9
Max cycles frequency					4.5.0.0
Mechanical operation				cycles/h	1500
Mechanical operation Operating times				cycles/h	1500
Mechanical operation				cycles/h	1500
Mechanical operation Operating times	ontrol in AC			cycles/h	1500
Mechanical operation Operating times		Closing NO		cycles/h	
Mechanical operation Operating times		Closing NO	min	cycles/h ms	12
Mechanical operation Operating times			min max		
Mechanical operation Operating times		Closing NO Opening NO		ms	12
Mechanical operation Operating times				ms	12
Mechanical operation Operating times			max	ms ms	12 28
Mechanical operation Operating times			max min	ms ms ms	12 28 8
Mechanical operation Operating times	in AC		max min	ms ms ms	12 28 8
Mechanical operation Operating times	in AC	Opening NO	max min	ms ms ms	12 28 8
Mechanical operation Operating times	in AC	Opening NO	max min max	ms ms ms ms	12 28 8 22
Mechanical operation Operating times	in AC	Opening NO Closing NO	max min max min	ms ms ms ms	12 28 8 22 40
Mechanical operation Operating times	in AC	Opening NO	max min max min max	ms ms ms ms ms	12 28 8 22 40 85
Mechanical operation Operating times	in AC	Opening NO Closing NO	max min max min max min	ms ms ms ms ms ms	12 28 8 22 40 85 20
Mechanical operation Operating times Average time for Us co	in AC	Opening NO Closing NO	max min max min max	ms ms ms ms ms	12 28 8 22 40 85
Mechanical operation Operating times Average time for Us co	in AC	Opening NO Closing NO Opening NO	max min max min max min	ms ms ms ms ms ms	12 28 8 22 40 85 20
Mechanical operation Operating times Average time for Us co	in AC	Opening NO Closing NO Opening NO	max min max min max min max	ms ms ms ms ms ms ms ms	12 28 8 22 40 85 20 55
Mechanical operation Operating times Average time for Us co	in AC	Opening NO Closing NO Opening NO	max min max min max min max at 480V	ms ms ms ms ms ms ms ms	12 28 8 22 40 85 20 55 40
Mechanical operation Operating times Average time for Us co UL technical data Full-load current (FLA)	in AC	Opening NO Closing NO Opening NO	max min max min max min max	ms ms ms ms ms ms ms ms	12 28 8 22 40 85 20 55
Mechanical operation Operating times Average time for Us co	in AC	Opening NO Closing NO Opening NO	max min max min max min max at 480V	ms ms ms ms ms ms ms ms	12 28 8 22 40 85 20 55 40

The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding

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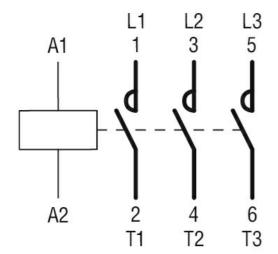
THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 40A, AC/DC COIL,

60...110VAC/DC

		575/600V	HP	30	
General USE					
	Contactor				
		AC current	Α	70	
Short-circuit protection					
	High fault	<b>.</b>			
		Short circuit current	kA	100	
		Fuse rating Fuse class	A	150	
	Standard fault	ruse class		J	
	Standard laut	Short circuit current	kA	5	
		Fuse rating	A	150	
		Fuse class		RK5	
Ambient conditions					
Temperature					
	Operating temperature				
		min	°C	-40	
		max	°C	70	
	Storage temperature		• •	50	
		min	°C °C	-50 80	
Max altitude		max	m	3000	
Resistance & Protectic	n		111	3000	
Pollution degree				3	
Dimensions				-	
9 (0.35") (0. (0. (0. (0. (0. (0. (0. (0. (0. (0.					



**BF4000E110** THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 40A, AC/DC COIL, 60...110VAC/DC



## 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
	cULus
ETIM classification	

**ETIM 8.0** 

EC000066 -Power contactor, AC switching