



Product type designation Contact characteristics Number of poles Rated insulation voltage Ui IEC/EN Rated insulation voltage Uimp Department of poles min Hz max Hz EC Conventional free air thermal current Ith A Department Ith A C-1 (≤40°C) A AC-1 (≤55°C) A AC-1 (≤70°C) A AC-3 (≤440∨ ≤55°C) A AC-4 (400∨) A Rated operational power AC-3 (T≤55°C) 230∨ kW 400∨ kW 440∨ kW 440∨ kW 500∨ kW 690∨ kW 1000∨ kW Rated operational power AC-1 (T≤40°C)	Power contactor BF40 3 1000 8 25 400 70 70 60 50 40 24
Product type designation Contact characteristics Number of poles Rated insulation voltage Ui IEC/EN Rated insulation voltage Uimp Department of poles min Hz max Hz EC Conventional free air thermal current Ith A Department Ith A C-1 (≤40°C) A AC-1 (≤55°C) A AC-1 (≤70°C) A AC-3 (≤440∨ ≤55°C) A AC-4 (400∨) A Rated operational power AC-3 (T≤55°C) 230∨ kW 400∨ kW 440∨ kW 440∨ kW 500∨ kW 690∨ kW 1000∨ kW Rated operational power AC-1 (T≤40°C)	3 1000 8 25 400 70 70 60 50 40 24
Number of poles Number of poles Nr. Rated insulation voltage Ui IEC/EN Rated impulse withstand voltage Uimp Min Hz max Hz EC Conventional free air thermal current lth A Coperational current le AC-1 (≤40°C) A AC-1 (≤55°C) A AC-1 (≤55°C) A AC-1 (≤70°C) A AC-3 (≤440∨ ≤55°C) A AC-4 (4000∨) A Rated operational power AC-3 (T≤55°C) A AC-4 (400∨ kW 415∨ kW 440∨ kW 500∨ kW 680∨ kW 1000∨ kW Rated operational power AC-1 (T≤40°C) Rated operational power AC-1 (T≤40°C) Rated operational power AC-1 (T≤40°C) Rated operational power AC-1 (T≤40°C) Rated operational power AC-1 (T≤40°C) Rated operational power AC-1 (T≤40°C) Rated operational power AC-1 (T≤40°C) Rated operational power AC-1 (T≤40°C) Rated operational power AC-1 (T≤40°C) Rated operational power AC-1 (T≤40°C) Rated operational power AC-1 (T≤40°C) Rated operational power AC-1 (T≤40°C) Rated operational power AC-1 (T≤40°C) Rated operational power AC-1 (T≤40°C) Rated operational power AC-1 (T≤40°C) Rated operational power AC-1 (T≤40°C) Rated operational power AC-1 (T≤40°C) Rated operational power AC-1 (T≤40°C) Rated operational power AC-1 (T≤40°C) Rated operational power AC-1 (T≤40°C) Rated operational power AC-1 (T≤40°C) Rated operational power AC-1 (T≤40°C) Rated operational power AC-1 (T≤40°C) Rated operational power AC-1 (T≤40°C) Rated operational power AC-1 (T≤40°C) Rated operational power AC-1 (T≤40°C) Rated operational power AC-1 (T≤40°C) Rated operational power AC-1 (T≤40°C) Rated operational power AC-1 (T≤40°C) Rated operational power AC-1 (T≤40°C) Rated operational power AC-1 (T≤40°C)	3 1000 8 25 400 70 70 60 50 40 24
Number of poles Rated insulation voltage Ui IEC/EN Rated insulation voltage Uimp Rated impulse withstand voltage Uimp Rate Rated correctional frequency Rated operational current le AC-1 (≤40°C) A AC-1 (≤55°C) A AC-1 (≤70°C) A AC-3 (≤440∨ ≤55°C) A AC-4 (400∨) A AC-4 (400∨) A Rated operational power AC-3 (T≤55°C) Rated operational power AC-3 (T≤55°C) Rated operational power AC-1 (T≤40°C)	1000 8 25 400 70 70 60 50 40 24
Rated insulation voltage Ui IEC/EN	8 25 400 70 70 60 50 40 24
Rated impulse withstand voltage Uimp Departional frequency	25 400 70 70 60 50 40 24
min Hz max Hz EC Conventional free air thermal current Ith A Department Ith AC-1 (≤40°C) A AC-1 (≤55°C) A AC-1 (≤70°C) A AC-3 (≤440V ≤55°C) A AC-4 (400V) A Rated operational power AC-3 (T≤55°C) 230V kW 400V kW 415V kW 440V kW 500V kW 690V kW 1000V kW Rated operational power AC-1 (T≤40°C) Rated operational power AC-1 (T≤40°C) 230V kW 690V kW 690V kW 690V kW 690V kW 690V kW	400 70 70 60 50 40 24
max Hz	400 70 70 60 50 40 24
EC Conventional free air thermal current Ith Operational current le AC-1 (≤40°C) A AC-1 (≤55°C) A AC-1 (≤70°C) A AC-3 (≤440V ≤55°C) A AC-4 (400V) A Rated operational power AC-3 (T≤55°C) 230V kW 400V kW 415V kW 440V kW 500V kW 690V kW 1000V kW Rated operational power AC-1 (T≤40°C) 230V kW 400V kW 500V kW 690V kW 690V kW 400V kW 500V kW 690V kW 690V kW 690V kW	70 70 60 50 40 24
AC-1 (≤40°C) A AC-1 (≤55°C) A AC-1 (≤70°C) A AC-3 (≤440V ≤55°C) A AC-4 (400V) A Rated operational power AC-3 (T≤55°C) 230V kW 400V kW 415V kW 440V kW 500V kW 690V kW 1000V kW 1000V kW 1000V kW 1000V kW 1000V kW 1000V kW 690V kW	70 60 50 40 24
AC-1 (≤40°C) A AC-1 (≤55°C) A AC-1 (≤70°C) A AC-3 (≤440V ≤55°C) A AC-4 (400V) A Rated operational power AC-3 (T≤55°C) 230V kW 400V kW 415V kW 440V kW 500V kW 690V kW 1000V kW 1000V kW 1000V kW 1000V kW 1000V kW 400V kW 690V kW 1000V kW 690V kW 690V kW 690V kW 690V kW 690V kW	60 50 40 24
AC-1 (≤55°C) A AC-1 (≤70°C) A AC-3 (≤440V ≤55°C) A AC-4 (400V) A Rated operational power AC-3 (T≤55°C) 230V kW 400V kW 415V kW 440V kW 500V kW 690V kW 1000V kW 1000V kW 400V kW 1000V kW 690V kW 690V kW 690V kW 690V kW	60 50 40 24
AC-1 (≤70°C) A AC-3 (≤440V ≤55°C) A AC-4 (400V) A Rated operational power AC-3 (T≤55°C) 230V kW 400V kW 415V kW 440V kW 500V kW 690V kW 1000V kW 1000V kW 400V kW 1000V kW 1000V kW 400V kW 1000V kW 400V kW 690V kW	50 40 24
AC-3 (≤440V ≤55°C) A AC-4 (400V) A Rated operational power AC-3 (T≤55°C) 230V kW 400V kW 415V kW 440V kW 500V kW 690V kW 1000V kW Rated operational power AC-1 (T≤40°C) 230V kW 400V kW 690V kW 690V kW 690V kW 690V kW	40 24
AC-4 (400V) A Rated operational power AC-3 (T≤55°C) 230V kW 400V kW 415V kW 440V kW 500V kW 690V kW 1000V kW 1000V kW 400V kW 1000V kW 400V kW 400V kW 400V kW 400V kW 690V kW	24
Rated operational power AC-3 (T≤55°C) 230V kW 400V kW 415V kW 440V kW 500V kW 690V kW 1000V kW 1000V kW 230V kW 400V kW 500V kW 400V kW 400V kW 500V kW	
230V kW 400V kW 415V kW 440V kW 500V kW 690V kW 1000V kW 1000V kW 230V kW 400V kW 500V kW 400V kW 400V kW 400V kW	11
400V kW 415V kW 440V kW 500V kW 690V kW 1000V kW 1000V kW 230V kW 400V kW 500V kW 690V kW	11
415V kW 440V kW 500V kW 690V kW 1000V kW 1000V kW Rated operational power AC-1 (T≤40°C) 230V kW 400V kW 500V kW 690V kW	
440V kW 500V kW 690V kW 1000V kW 1000V kW Rated operational power AC-1 (T≤40°C) 230V kW 400V kW 500V kW 690V kW	18.5
500V kW 690V kW 1000V kW Rated operational power AC-1 (T≤40°C) 230V kW 400V kW 500V kW 690V kW	22
690V kW 1000V kW Rated operational power AC-1 (T≤40°C) 230V kW 400V kW 500V kW 690V kW	22
1000V kW Rated operational power AC-1 (T≤40°C) 230V kW 400V kW 500V kW 690V kW	22
Rated operational power AC-1 (T≤40°C) 230V kW 400V kW 500V kW 690V kW	30
230V kW 400V kW 500V kW 690V kW	18.5
400V kW 500V kW 690V kW	
500V kW 690V kW	26
690V kW	46
	58
	79
EC max current le in DC1 with L/R ≤ 1ms with 1 poles in series	
≤24V A	40
48V A	35
75V A	30
110V A	8
220V A	
EC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	
	48
48V A	48
75V A	45
110V A	42
	5
EC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	
≤24V A	
48V A	48
75V A	48 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	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	A	22	
	220V	Α	5	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	Z20 V		<u> </u>	
TEO THAX CUITER RE III DOO-DOO WILL DIV 2 TOTAS WILL O POICS III SCHES	≤24V	Α	40	
	48V	A	40	
	75V	A	38	
	110V	A	27	
	220V		32	
IFC many augment to in DC2 DC5 with L/D < 45 may with 4 males in agrics	220 V	A	32	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	<0.4V	۸		
	≤24V	A	_	
	48V	A	_	
	75V	A	_	
	110V	A	_	
01 - 4 ('	220V	A	40	
Short-time allowable current for 10s (IEC/EN60947-1)		Α	400	
Protection fuse	a ((= a)	_		
	gG (IEC)	Α	100	
	aM (IEC)	Α	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	8.0	
Power dissipation per pole (average value)				
	Ith	W	3.9	
	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	



Operating position normal Vertical plan allowable ±30° Screw / DIN rail 35mm					
Max number of wires simultaneously connectable Nr. 2 Conductor section AWG/Kcmil max 2 Flexible w/o lug conductor section min mm² 1.5 Flexible c/w lug conductor section min mm² 1.5 Flexible c/w lug conductor section min mm² 1.5 max mm² 35 mm² 35 Power terminal protection according to IEC/EN 60529 mm² 1.2 mm² 35 Personal protection according to IEC/EN 60529 monatal allowable 430° Screw / DIN rail 35mm 3			min	Ibin	
AWG/Kcmil			max		
AWG/Kcmil Plexible w/o lug conductor section min max max max 1.5 max max max 3.5 max max max 3.5 max max max 3.5 max max max max 3.5 max max max 3.5 max		simultaneously connectable		Nr.	2
Persible w/o lug conductor section	Conductor section	ANA 0.11			
Flexible w/o lug conductor section		AWG/Kcmil			0
Plexible c/w lug conductor section		Clavible w/e lug conductor coetion	max		
Plexible c/w lug conductor section min max		Flexible w/o lug conductor section	min	mm²	1.5
Flexible c/w lug conductor section					
Minimax		Flexible c/w lug conductor section	IIIax	111111	33
Power terminal protection according to IEC/EN 60529 IP20 front I		Tickibic 6/W lag conductor section	min	mm²	1.5
Provide terminal protection according to IEC/EN 60529 IP20 front Mechanical features					
Application Section	Power terminal protect	tion according to IEC/EN 60529			
Normal allowable Seriew Din rail allowable Seriew Din rail allowable Seriew Din rail allowable Seriew Din rail 35mm D	Mechanical features				
Normal allowable Seriew Din rail allowable Seriew Din rail allowable Seriew Din rail allowable Seriew Din rail 35mm D					
Fixing Screw / DIN rail Sc			normal		Vertical plan
Meight g 1020			allowable		· ·
Weight	Fixing				
AWG/kcmil conductor section max 2					
AWG/kcmil conductor section max	Weight			g	1020
Max 2 2 2 2 2 2 2 2 2	Conductor section				
Cycles 15000000		AWG/kcmil conductor section			
Mechanical life cycles 15000000 Electrical life cycles 1500000 Safety related data Performance level B10d according to EN/ISO 13489-1 rated load mechanical load cycles 1500000 Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility yes AC coil operating Rated AC voltage at 50/60Hz V 24 AC operating voltage of 50/60Hz coil powered at 50Hz min %Us 80 min %Us 80 max %Us 20 max %Us 55 of 50/60Hz coil powered at 60Hz pick-up min %Us 85 min %Us 85 of 50/60Hz coil powered at 60Hz pick-up min %Us 85 min %Us 85 min %Us 40 <t< td=""><td>O</td><td></td><td>max</td><td></td><td>2</td></t<>	O		max		2
Electrical life cycles 1500000 Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 1500000 mechanical load cycles 1500000 Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility yes AC coil operating Rated AC voltage at 50/60Hz coil powered at 50Hz pick-up min %Us 80 max %Us 110 drop-out min %Us 20 max %Us 55 of 50/60Hz coil powered at 60Hz pick-up min %Us 85 max %Us 110 drop-out min %Us 85 max %Us 150 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 210					4500000
Performance level B10d according to EN/ISO 13489-1 rated load cycles 1500000 mechanical load cycles 15000000 cycles 150000000 cycles 15000000 cycles 150000000 cycles 150000000 cycles 150000000 cycles 15000000000 cycles 15000000000 cycles 1500000000000 cycles 15000000000000000 cycles 150000000000					
Performance level B10d according to EN/ISO 13489-1 rated load cycles 15000000 mechanical load cycles 150000000 mechanical load cycles 150000000 mechanical load cycles 150000000 mechanical load cycles 150000000 mechanical load cycles 15000000 mechanical load cycles 150000000 mechanical load cycles 150000000 mechanical load cycles 1500000000 mechanical load cycles 150000000000 mechanical load cycles 15000000000000000000000000000000000000				cycles	1500000
Tated load Property Propert	•	0d according to EN/ISO 12490 1			
Mirror contats according to IEC/EN 609474-4-1 yes	Periormance level by	od according to EN/13O 13469-1	rated load	ovelee	1500000
Mirror contats according to IEC/EN 609474-4-1 EMC compatibility AC coil operating Rated AC voltage at 50/60Hz Rated AC operating voltage of 50/60Hz coil powered at 50Hz pick-up min %Us 80 max %Us 110 drop-out min %Us 20 max %Us 55 of 50/60Hz coil powered at 60Hz pick-up min %Us 85 max %Us 110 drop-out min %Us 85 max %Us 110 drop-out min %Us 85 max %Us 110 drop-out min %Us 85 max %Us 150 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 210				•	
EMC compatibility AC coil operating Rated AC voltage at 50/60Hz AC operating voltage of 50/60Hz coil powered at 50Hz pick-up min %Us 80 max %Us 110 drop-out min %Us 20 max %Us 55 of 50/60Hz coil powered at 60Hz pick-up min %Us 85 max %Us 110 drop-out min %Us 85 max %Us 55 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz	Mirror contats accordi	ng to IFC/FN 609474-4-1	Theoriamear load	Cycles	
AC coil operating Rated AC voltage at 50/60Hz AC operating voltage of 50/60Hz coil powered at 50Hz pick-up min %Us 80 max %Us 110 drop-out min %Us 20 max %Us 55 of 50/60Hz coil powered at 60Hz pick-up min %Us 85 max %Us 110 drop-out min %Us 85 max %Us 110 drop-out min %Us 85 max %Us 110 drop-out min %Us 85 max %Us 55 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz		19 10 12 0/214 000 4/4 4 1			
AC operating voltage of 50/60Hz coil powered at 50Hz pick-up min %Us 80 max %Us 110 drop-out min %Us 20 max %Us 55 of 50/60Hz coil powered at 60Hz pick-up min %Us 85 max %Us 110 drop-out min %Us 85 max %Us 55 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 210					yes
AC operating voltage of 50/60Hz coil powered at 50Hz pick-up min %Us 80 max %Us 110 drop-out min %Us 20 max %Us 55 of 50/60Hz coil powered at 60Hz pick-up min %Us 85 max %Us 110 drop-out min %Us 85 max %Us 110 drop-out min %Us 85 max %Us 110 drop-out min %Us 40 max %Us 55 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 210	· · · · · · · · · · · · · · · · · · ·	0/60Hz		V	24
of 50/60Hz coil powered at 50Hz pick-up min %Us 80 max %Us 110 drop-out min %Us 20 max %Us 55 of 50/60Hz coil powered at 60Hz pick-up min %Us 85 max %Us 110 drop-out min %Us 85 max %Us 110 drop-out min %Us 85 max %Us 110 drop-out min %Us 40 max %Us 55 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 210					
Pick-up min %Us 80 max %Us 110 Moreored min %Us 20 max %Us 55 Moreored min %Us 55 Moreored min %Us 85 max %Us 110 Moreored min %Us 85 max %Us 110 Moreored min %Us 85 max %Us 110 Moreored min %Us 40 max %Us 55 Moreored min %Us 65 Moreored min %Us	1 0 0	of 50/60Hz coil powered at 50Hz			
Min WUs 80 max WUs 110		-			
drop-out min %Us 20 max %Us 55		·	min	%Us	80
min %Us 20 max %Us 55			max	%Us	110
max		drop-out			
of 50/60Hz coil powered at 60Hz pick-up min %Us 85 max %Us 110 drop-out min %Us 40 max %Us 55 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 210			min		
pick-up min %Us 85 max %Us 110 drop-out min %Us 40 max %Us 55 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 210			max	%Us	55
min %Us 85 max %Us 110 drop-out min %Us 40 max %Us 55 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 210		•			
max %Us 110		pick-up		0/11	
drop-out min %Us 40 max %Us 55 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 210					
min %Us 40 max %Us 55 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 210			max	%US	110
max %Us 55 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 210		arop-out	ma:	0/110	40
AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 210					
of 50/60Hz coil powered at 50Hz in-rush VA 210	AC average coil cons	umption at 20°C	IIIdX	/0US	JJ
in-rush VA 210	AO average con const				
		of 50/00112 coil powered at 50HZ	in-ruch	\/Δ	210
Tiolaing VA 13					
			Holding	٧.٨	10



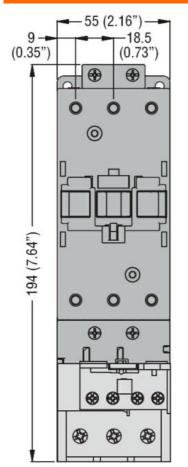


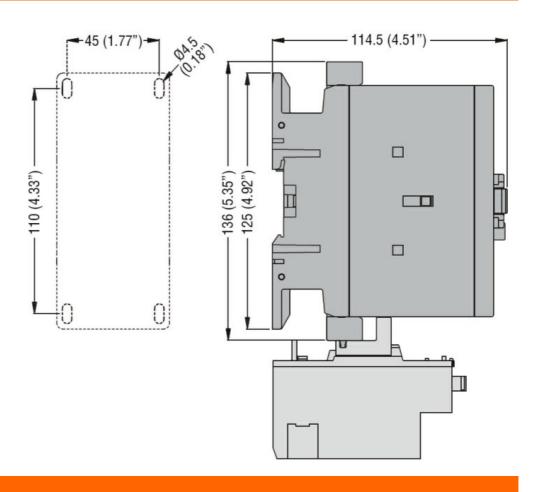
	of 50/60Hz coil powere	ed at 60Hz			
			in-rush	VA	195
			holding	VA	13
	of 60Hz coil powered a	nt 60Hz	<u>_</u>		
			in-rush	VA	210
			holding	VA	15
Dissipation at holding ≤	20°C 50Hz		9	W	5
Max cycles frequency					
Mechanical operation				cycles/h	3600
Operating times				Gy 616 6711	
Average time for Us con	ntrol				
Twerage time for 00 00	in AC				
	11770	Closing NO			
		Closing 140	min	ms	12
			max	ms	28
		Opening NO	IIIdX	1113	20
		Sporting (10	min	ms	8
			max	ms	22
	in DC		IIIdx	1113	
	III DO	Closing NO			
		Closing INO	min	ms	40
			max	ms	85
		Opening NO	IIIdx	1115	65
		Opening NO	min	ms	20
			max	ms	55
UL technical data			Шах	1115	55
	for three-phase AC mot	or			
i dii-load current (i LA)	ioi ililee-pilase AC ilioi	Oi	at 480V	Α	40
			at 600V	A	32
Violded machanical per	formana		at 000 v		32
Yielded mechanical per		otor			
	for single-phase AC m	Olor	110/120V	HP	2
			230V		3 7.5
	for three phase AC ma	.4	2301	HP	7.3
	for three-phase AC mo	NOI	200/2001	ЦD	10
			200/208V 220/230V	HP HP	10
			460/480V		15
				HP up	30
Canaral LICE			575/600V	HP	30
General USE	Contact				
	Contactor		A C a	٨	70
Object also to a contract	f 0001/		AC current	Α	70
Short-circuit protection					
	High fault		Observation to		400
			Short circuit current	kA	100
			Fuse rating	Α	150
	Otan dan Maril		Fuse class		J
	Standard fault		Ohaw street or or o	Ι. Λ	F
			Short circuit current	kA	5
			Fuse rating	Α	150
Analainet and liting			Fuse class		RK5
Ambient conditions					
Temperature	0				
	Operating temperature			0.0	50
			min	°C	-50



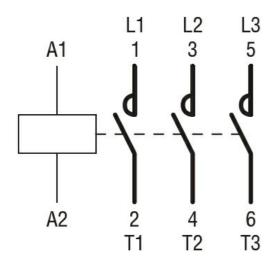
max	°C	70
min	°C	-60
max	°C	80
	m	3000
		3
	min	min °C max °C

Dimensions





Wiring diagrams



Certifications and compliance

Compliance



BF4000A024

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 40A, AC COIL 50/60HZ, 24VAC

	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
ETIMA I SECURI	

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching



Product designation

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



Power contactor

BF40 Product type designation Contact characteristics Nr. 3 Number of poles Rated insulation voltage Ui IEC/EN ٧ 1000 k√ Rated impulse withstand voltage Uimp 8 Operational frequency min Η 25 max Hz 400 IEC Conventional free air thermal current Ith 70 Α 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) 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 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 30 Α 110V Α 8 220V Α IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V 48 Α 48V Α 48 45 75V Α 110V Α 42

220V

≤24V

48V

75V

5

48

48

48

Α

Α

Α

IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series



	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
150	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	.0.4)./		
	≤24V	A	32
	48V	A	30
	75V	A	27
	110V	A	22
IEC many assument to in DC2 DC5 with L/D < 15 may with 2 males in series	220V	Α	5
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	<04)/	۸	40
	≤24V 48V	A	40
	46 V 75 V	A A	40 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		32
TEO Max current le in 600-600 with E/N 3 Toms with 4 poles in series	≤24V	Α	_
	48V	A	_
	75V	Α	_
	110V	Α	_
	220V	Α	40
Short-time allowable current for 10s (IEC/EN60947-1)		Α	400
Protection fuse			
	gG (IEC)	Α	100
	aM (IEC)	Α	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)			
	Ith	W	3.9
	AC3	W	1.3
Tightening torque for terminals			
	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



Operating position normal allowable Vertical plan allowable ±30° Fixing Screw / DIN rail 35mm Weight g 1020 Conductor section max 2 Operations Cycles 15000000					
Max number of wires simultaneously connectable Nr. 2 Conductor section AWG/Kcmil max 2 Flexible w/o lug conductor section min mmx 35 Flexible c/w lug conductor section min mm² 1.5 Flexible c/w lug conductor section min mm² 1.5 max mm² 35 35 Power terminal protection according to IEC/EN 60529 mm² 1.5 mm² 35 Power terminal protection according to IEC/EN 60529 monmal allowable 130° 1920 front 1			min	lbin	
AWG/Kcmil			max		
AWG/Kcmil max 2 1.5 max 1.5 max 1.5 max mm² 1.5 max mm² 1.5 max mm² 3.5 max mm²		simultaneously connectable		Nr.	2
Plexible w/o lug conductor section	Conductor section				
Flexible w/o lug conductor section		AWG/Kcmil			
Piezible c/w lug conductor section		Flavible w/o lug panductor continu	max		2
Max		Flexible w/o lug conductor section	min	mm²	1 5
Flexible c/w lug conductor section					
Min		Flexible c/w lug conductor section	Παλ	111111	33
Prower terminal protection according to IEC/EN 60529 IP20 front		r lexible 6/w lag conductor section	min	mm²	1.5
Power terminal protection according to IEC/EN 60529					
Mechanical features Secret	Power terminal protect	tion according to IEC/EN 60529			
Normal allowable Series	Mechanical features				
Normal allowable Series	Operating position				
Fixing Screw / DIN rail 35mm Screw / DIN rail 35			normal		Vertical plan
Samm			allowable		
Weight g 1020 Conductor section max 2 Operations Mechanical life cycles 15000000 Electrical life cycles 15000000 Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 1500000 Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility yes AC coil operating Rated AC voltage at 50/60Hz V 48 AC operating voltage of 50/60Hz coil powered at 50Hz yes AC operating voltage yes yes yes yes yes	Fixing				Screw / DIN rail 35mm
AWG/kcmil conductor section max 2	Weight			g	1020
Max 2	Conductor section				
Operations Mechanical life cycles 15000000 Electrical life cycles 1500000 Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles of 15000000 15000000 Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility AC coil operating V 48 Rated AC voltage at 50/60Hz V 48 AC operating voltage First pick-up min %Us 80 880 max %Us 110 drop-out min %Us 85 Soloperating voltage First pick-up min %Us 85 880 max %Us 110 drop-out min %Us 85 max %Us 110 drop-out min %Us 85 Min %Us 40 max %Us 110 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 210 Lin-rush VA 210 Accolspan="4">Accolspan="4">Accolspan="4">Accolspan="4">Accolspan="4">Accolspan="4">Accolspan="4">Accolspan="4">Accolspan="4">Accolspan="4">Accolspan="4">Acc		AWG/kcmil conductor section			
Mechanical life cycles 15000000			max		2
Electrical life cycles 1500000 Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 1500000 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility yes AC coll operating Rated AC voltage at 50/60Hz coil powered at 50Hz pick-up of 50/60Hz coil powered at 60Hz pick-up of 50/60Hz coil powered at 60Hz pick-up AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz or solution according to IEC/EN 609474-4-1 rated load cycles 1500000 rated load cycles 1500000 yes 150000 Yes 150000 Yes 1500000 Yes 1500000 Yes 150000 Yes 150000	Operations				
Performance level B10d according to EN/ISO 13489-1 rated load ra	Mechanical life			cycles	15000000
Performance level B10d according to EN/ISO 13489-1 rated load ra	Electrical life			cycles	1500000
Rated load Cycles 1500000 1500000 1500000 15000000 15000000 15000000 15000000 15000000 15000000 150000000 150000000 150000000 150000000 150000000 150000000000	•				
Mirror contats according to IEC/EN 609474-4-1 yes	Performance level B1	0d according to EN/ISO 13489-1			
Mirror contats according to IEC/EN 609474-4-1 EMC compatibility AC coil operating Rated AC voltage at 50/60Hz Of 50/60Hz coil powered at 50Hz pick-up min %Us 80 max %Us 110 drop-out min %Us 20 max %Us 55 of 50/60Hz coil powered at 60Hz pick-up min %Us 85 max %Us 110 drop-out min %Us 85 max %Us 110 drop-out min %Us 85 max %Us 110 drop-out min %Us 85 max %Us 150 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 210				-	
EMC compatibility AC coil operating Rated AC voltage at 50/60Hz AC operating voltage of 50/60Hz coil powered at 50Hz pick-up min %Us 80 max %Us 110 drop-out min %Us 20 max %Us 55 of 50/60Hz coil powered at 60Hz pick-up min %Us 85 max %Us 110 drop-out min %Us 85 max %Us 55 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 210	B. 4'	, JEO/EN 000 474 4 4	mechanical load	cycles	
Rated AC voltage at 50/60Hz V		ng to IEC/EN 609474-4-1			_ •
Rated AC voltage at 50/60Hz V 48					yes
AC operating voltage of 50/60Hz coil powered at 50Hz pick-up min %Us 80 max %Us 110 drop-out min %Us 20 max %Us 55 of 50/60Hz coil powered at 60Hz pick-up min %Us 85 max %Us 110 drop-out min %Us 85 max %Us 110 drop-out min %Us 85 max %Us 110 drop-out min %Us 40 max %Us 55 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 210	· · · · · · · · · · · · · · · · · · ·	0/60H -		\/	40
of 50/60Hz coil powered at 50Hz pick-up min %Us 80 max %Us 110 drop-out min %Us 20 max %Us 55 of 50/60Hz coil powered at 60Hz pick-up min %Us 85 max %Us 110 drop-out min %Us 85 max %Us 110 drop-out min %Us 85 max %Us 110 drop-out min %Us 40 max %Us 55 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 210		0/00HZ		V	40
Pick-up min %Us 80 max %Us 110 Mus 20 max %Us 55 Mus 55 Mus 60 Mus 6	AC operating voltage	of 50/60Hz coil powered at 50Hz			
Min %Us 80 max %Us 110					
Max %Us 110		prox ap	min	%Us	80
drop-out min %Us 20 max %Us 55					
max %Us 55		drop-out			
of 50/60Hz coil powered at 60Hz pick-up min %Us 85 max %Us 110 drop-out min %Us 40 max %Us 55 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 210			min	%Us	20
pick-up min %Us 85 max %Us 110 drop-out min %Us 40 max %Us 55 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 210			max	%Us	55
min %Us 85 max %Us 110 drop-out min %Us 40 max %Us 55 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 210		of 50/60Hz coil powered at 60Hz			
max %Us 110		pick-up			
drop-out min %Us 40 max %Us 55 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 210			min		
min %Us 40 max %Us 55 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 210			max	%Us	110
max %Us 55 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 210		drop-out		0/17	40
AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 210					
of 50/60Hz coil powered at 50Hz in-rush VA 210	A.O		max	%US	55
in-rush VA 210	AC average coil const	•			
		oi 50/60Hz coil powered at 50Hz	حاجب ساحدا	١/٨	210
nolaing vA 15					
			noluing	VA	10



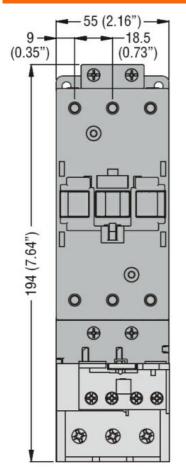


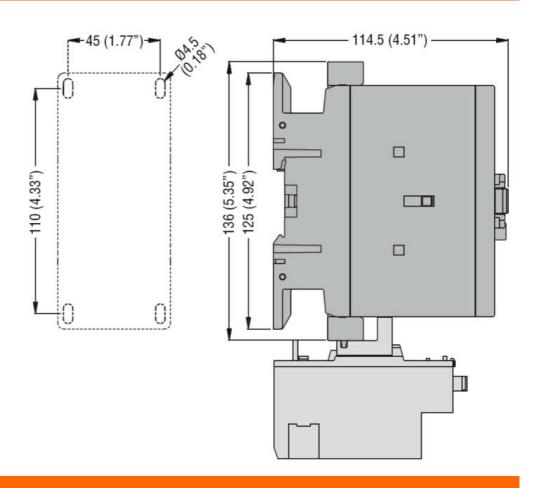
	of 50/60Hz coil power	red at 60Hz			
	or 30/00112 con powe	iled at our iz	in-rush	VA	195
			holding	VA	13
	of 60Hz coil powered	Lat 60Hz	Holding	VA	10
	or dornz con powered	1 at 00HZ	in-rush	VA	210
			holding	VA VA	15
Dissipation at holding :	<20°C 50H ₇		Holding	W	5
Max cycles frequency	≥20 C 30HZ			VV	J
Mechanical operation				ovoloo/b	2600
Operating times				cycles/h	3600
	antrol				
Average time for Us co					
	in AC	Olasias NO			
		Closing NO			40
			min	ms	12
		0 NO	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 m	otor			
			at 480V	Α	40
-			at 600V	Α	32
Yielded mechanical pe	erformance				
	for single-phase AC	motor			
			110/120V	HP	3
			230V	HP	7.5
	for three-phase AC n	notor			_
			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	n fuse, 600V		·		
	High fault				
			Short circuit current	kA	100
			Fuse rating	A	150
			Fuse class	, ,	J
	Standard fault		1 400 01400		
	Standard radit		Short circuit current	kA	5
			Fuse rating	A	150
			Fuse class	^	RK5
Ambient conditions			ruse ciass		C/I/J
Ambient conditions					
Temperature	On analis side				
	Operating temperatu	re		۰.	50
			min	°C	-50



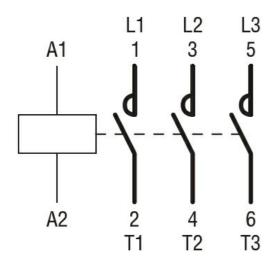
	max	°C	70
Storage temperature			
	min	°C	-60
	max	°C	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3

Dimensions





Wiring diagrams



Certifications and compliance

Compliance



BF4000A048

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 40A, AC COIL 50/60HZ, 48VAC

	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



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	18.5
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	A	_
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	Α	42
	220V	Α	5
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
in the max current le in DOT with L/IV = 1115 with 5 poles in series			
120 max current le in 201 with 2/1/2 mis with 5 poles in series	≤24V	Α	48
ILO max current le in DOT with Lift 2 mis with 5 poles in series	≤24V 48V 75V	A A A	48 48 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	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	Α	38
	110V	A	27
	220V	A	32
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	2201		
TEO MAX GATICITE IN 1800 800 WILL ETC = TOTAL WILL 4 POICE IN SCHOOL	≤24V	Α	_
	48V	A	_
	75V	A	_
	110V	A	_
	220V	A	40
Short-time allowable current for 10s (IEC/EN60947-1)	2201	A	400
Protection fuse			400
Fiotection ruse	gG (IEC)	Α	100
	aM (IEC)	A	50
Making capacity (RMS value)	aivi (IEC)	A	400
		A	400
Breaking capacity at voltage	4401/	٨	220
	440V	A	320
	500V	A	265
Decistance per pela (everge value)	690V	A	256
Resistance per pole (average value)		mΩ	0.8
Power dissipation per pole (average value)	1.1	147	2.0
	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	Ibin	3.69
Tightening torque for coil terminal			
	min	Nm	8.0
	max	Nm	1



		min	lbin	0.8
		max	lbin	0.74
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			•
	Fig. 3.1	max		2
	Flexible w/o lug conductor section		2	4.5
		min	mm²	1.5
	Florible a/w lug conductor acction	max	mm²	35
	Flexible c/w lug conductor section	min	mm²	1.5
		max	mm²	35
Power terminal protec	tion according to IEC/EN 60529	IIIdA	111111	IP20 front
Mechanical features	tion according to IEC/EN 00329			IF 20 HOIR
Operating position				
operating position		normal		Vertical plan
		allowable		±30°
		anowabic		Screw / DIN rail
Fixing				35mm
Weight			g	1020
Conductor section				
	AWG/kcmil conductor section			
		max		2
Operations				
Mechanical life			cycles	15000000
Electrical life			cycles	1500000
Safety related data				
Performance level B1	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			yes
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 5	0/60Hz		V	110
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out	•	0/11-	00
		min	%Us	20
	of FO/COLLE and an every district COLLE	max	%Us	55
	of 50/60Hz coil powered at 60Hz			
	pick-up	min	%Us	85
		min		
	drop-out	max	%Us	110
	αιορ-οαι	min	%Us	40
		max	%Us	55
AC average coil consu	umption at 20°C	IIIdA	/003	
To average con const	of 50/60Hz coil powered at 50Hz			
	51 50/501 12 5011 powered at 501 12	in-rush	VA	210
		holding	VA	15
		Holding	٧, ١	.0



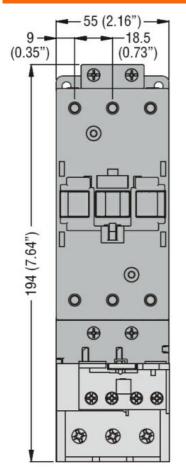


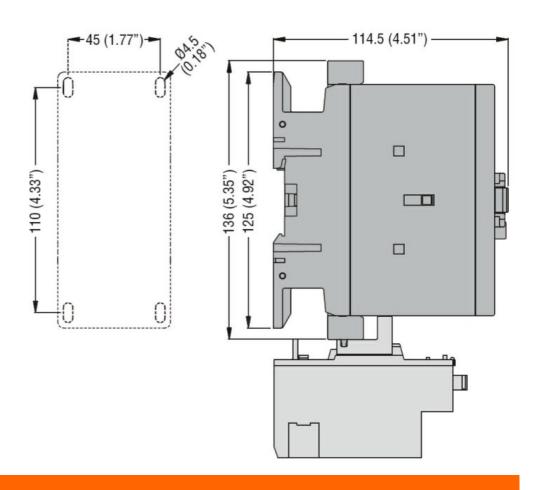
	of 50/60Hz coil power	ed at 60Hz			
	or 30/00112 con power	ed at our iz	in-rush	VA	195
			holding	VA	13
	of 60Hz coil powered	at 60Hz	Holding	VA	10
	or our iz con powered	at 00112	in-rush	VA	210
			holding	VA VA	15
Dissipation at holding	<20°C 50∐-		Holding	W	5
Max cycles frequency	≥20 C 30HZ			VV	3
				ovoloo/b	2600
Mechanical operation				cycles/h	3600
Operating times	notinal.				
Average time for Us co					
	in AC	01 : 110			
		Closing NO			4.0
			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 mo	tor			
			at 480V	Α	40
			at 600V	Α	32
Yielded mechanical pe	erformance				
	for single-phase AC n	notor			
			110/120V	HP	3
			230V	HP	7.5
	for three-phase AC m	otor			
			200/208V	HP	10
			220/230V	HP	15
			460/480V	HP	30
			575/600V	HP	30
General USE			0101000V		
Control COL	Contactor				
	Juliaului		AC current	Α	70
Short-circuit protection	1 fuse 600V		AO GUITEIR		
Chort-oncor protection					
	High fault		Short circuit current	LΛ	100
				kA ^	
			Fuse rating	Α	150
	Otomalorel feeds		Fuse class		J
	Standard fault		Object 11 11		F
			Short circuit current	kA	5
			Fuse rating	Α	150
			Fuse class		RK5
Ambient conditions					
Temperature					
	Operating temperature	Э			
			min	°C	-50



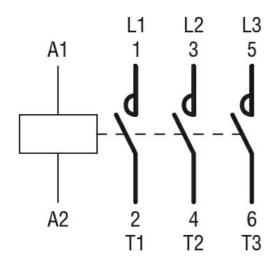
	max	°C	70
Storage temperature			
	min	°C	-60
	max	°C	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3

Dimensions





Wiring diagrams



Certifications and compliance

Compliance



BF4000A110

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 40A, AC COIL 50/60HZ, 110VAC

	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 Product designation

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



Power contactor

BF40

Product type designation Contact characteristics Nr. 3 Number of poles Rated insulation voltage Ui IEC/EN ٧ 1000 k√ Rated impulse withstand voltage Uimp 8 Operational frequency min Η 25 max Hz 400 IEC Conventional free air thermal current Ith 70 Α 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) 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 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 30 Α 110V Α 8 220V Α IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series

≤24V

48V

75V

110V

220V

≤24V

48V

75V

48

48 45

42

5

48

48

48

Α

Α

Α

Α

Α

Α

Α

IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series



	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	Α	38
	110V	A	27
	220V	A	32
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	2201		
TEO MAX GATICITE IN 1800 800 WILL ETC = TOTAL WILL 4 POICE IN SCHOOL	≤24V	Α	_
	48V	A	_
	75V	A	_
	110V	A	_
	220V	A	40
Short-time allowable current for 10s (IEC/EN60947-1)	2201	A	400
Protection fuse			400
Fiotection ruse	gG (IEC)	Α	100
	aM (IEC)	A	50
Making capacity (RMS value)	aivi (IEC)	A	400
		A	400
Breaking capacity at voltage	4401/	٨	220
	440V	A	320
	500V	A	265
Desistance per pela (everge value)	690V	A	256
Resistance per pole (average value)		mΩ	0.8
Power dissipation per pole (average value)	1.1	147	2.0
	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	Ibin	3.69
Tightening torque for coil terminal			
	min	Nm	8.0
	max	Nm	1



Weight g 1020 Conductor section max 2 Operations Mechanical life cycles 15000000 Electrical life cycles 1500000 Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 1500000 Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility yes AC coil operating Rated AC voltage at 50/60Hz V 230					
Max number of wires simultaneously connectable Nr. 2 Conductor section max 2 Flexible w/o lug conductor section min mm² 1.5 Flexible c/w lug conductor section min mm² 1.5 Flexible c/w lug conductor section min mm² 1.5 max min mm² 1.5 max min mm² 1.5 max min mm² 1.5 min mm² 1.5 mm² 3.5 Power terminal protection according to IEC/EN 60529 mm² 1.5 mm² 1.5 mm² 1.5 mm² 3.5 Tot (Vertical plan state) 3.5 Tot (Vertical plan state) 3.0 Tot (Vertical plan state)			min		
AWG/Kcmil			max		
AWG/Kcmil Plexible w/o lug conductor section min		simultaneously connectable		Nr.	2
Plexible w/o lug conductor section	Conductor section	ANNO 46			
Flexible w/o lug conductor section min mm² 1.5 max mm² 3.5 min min mm² 3.5 min min mm² 3.5 min min mm² 3.5 min min		AWG/Kcmil			
Plexible c/W lug conductor section min max max max max 1.5 max		Fig. 3.1	max		2
Plexible c/w lug conductor section min min mm² 1.5 max mm² 35		Flexible w/o lug conductor section	•	2	4.5
Flexible c/w lug conductor section min max mm² 1.5 max mm² 3.5 mm² mm²					
Minimax Mini		Elevible alvebra and destant and a	max	mm-	35
Prower terminal protection according to IEC/EN 60529 IP20 front		Flexible c/w lug conductor section	min	mama ²	1 E
Provide terminal protection according to IEC/EN 60529 IP20 front Mechanical features IP20 front IP2					
Mechanical features Special position Special plan Special	Dower terminal protec	tion according to IEC/EN 60520	IIIdX	111111	
Departing position		tion according to IEC/EN 60329			IP20 HOHL
Normal allowable Series					
Screw DIN rail DIN rail	Operating position		normal		Vertical plan
Screw / DIN rail 35mm 35					
Meight g 1020 Conductor section			allowabic		
Weight	Fixing				
AWG/kcmil conductor section max 2	Weight			a	
AWG/kcmil conductor section max	_				
Max 2 2 2 2 2 2 2 2 2		AWG/kcmil conductor section			
Mechanical life cycles 15000000			max		2
Mechanical life Cycles 15000000	Operations				
Electrical life	Mechanical life			cycles	15000000
Performance level B10d according to EN/ISO 13489-1 rated load mechanical load ocycles 1500000 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility Rated AC voltage at 50/60Hz Possible Compatibility AC operating voltage of 50/60Hz coil powered at 50Hz pick-up drop-out drop-out min %Us 80 max %Us 110 drop-out min %Us 55 of 50/60Hz coil powered at 60Hz pick-up min %Us 55 of 50/60Hz coil powered at 60Hz pick-up min %Us 85 according to IEC/EN 609474-4-1 min %Us 55 of 50/60Hz coil powered at 60Hz pick-up min %Us 85 max %Us 110 drop-out min %Us 85 max %Us 110 drop-out drop-out min %Us 85 max %Us 110 drop-out min %Us 85 max %Us 110 drop-out min %Us 85 max %Us 150 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 210	Electrical life				1500000
Tated load Properties Pro	Safety related data				
Mirror contats according to IEC/EN 609474-4-1 yes	Performance level B1	0d according to EN/ISO 13489-1			
Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility yes AC coil operating Rated AC voltage at 50/60Hz AC operating voltage of 50/60Hz coil powered at 50Hz pick-up min %Us 80 max %Us 110 drop-out min %Us 20 max %Us 55 of 50/60Hz coil powered at 60Hz pick-up min %Us 85 max %Us 110 drop-out min %Us 85 max %Us 110 drop-out min %Us 85 max %Us 110 drop-out min %Us 85 max %Us 155 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 210			rated load	cycles	1500000
EMC compatibility AC coil operating Rated AC voltage at 50/60Hz AC operating voltage of 50/60Hz coil powered at 50Hz pick-up min %Us 80 max %Us 110 drop-out min %Us 20 max %Us 55 of 50/60Hz coil powered at 60Hz pick-up min %Us 85 max %Us 110 drop-out min %Us 85 max %Us 55 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 210			mechanical load	cycles	15000000
AC coil operating Rated AC voltage at 50/60Hz AC operating voltage of 50/60Hz coil powered at 50Hz pick-up min %Us 80 max %Us 110 drop-out min %Us 20 max %Us 55 of 50/60Hz coil powered at 60Hz pick-up min %Us 85 max %Us 110 drop-out min %Us 85 max %Us 110 drop-out min %Us 85 max %Us 110 drop-out min %Us 85 max %Us 55 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 210	Mirror contats accordi	ng to IEC/EN 609474-4-1			yes
AC operating voltage of 50/60Hz coil powered at 50Hz pick-up min %Us 80 max %Us 110 drop-out min %Us 20 max %Us 55 of 50/60Hz coil powered at 60Hz pick-up for 50/60Hz coil powered at 60Hz pick-up min %Us 85 max %Us 110 drop-out min %Us 40 max %Us 55 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 210	EMC compatibility				yes
AC operating voltage of 50/60Hz coil powered at 50Hz pick-up min %Us 80 max %Us 110 drop-out min %Us 20 max %Us 55 of 50/60Hz coil powered at 60Hz pick-up min %Us 85 max %Us 110 drop-out min %Us 85 max %Us 110 drop-out min %Us 85 max %Us 110 drop-out min %Us 40 max %Us 55 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 210	AC coil operating				
of 50/60Hz coil powered at 50Hz pick-up min %Us 80 max %Us 110 drop-out min %Us 20 max %Us 55 of 50/60Hz coil powered at 60Hz pick-up min %Us 85 max %Us 110 drop-out min %Us 85 max %Us 110 drop-out min %Us 85 max %Us 110 drop-out min %Us 85 max %Us 55 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 210	Rated AC voltage at 5	0/60Hz		V	230
Pick-up min %Us 80 max %Us 110 Moreover min %Us 20 max %Us 55 Moreover min %Us 55 Moreover min %Us 85 max %Us 110 Moreover min %Us 85 max %Us 110 Moreover min %Us 85 max %Us 110 Moreover min %Us 40 max %Us 55 Moreover Moreover min %Us 40 max %Us 55 Moreover min %Us 65 Moreover min %Us	AC operating voltage				
Min Mus 80 max Mus 110 min Mus 20 max Mus 55		-			
Max %Us 110		pick-up			
drop-out min %Us 20 max %Us 55			min		
min %Us 20 max %Us 55			max	%Us	110
max		drop-out		0/11	
of 50/60Hz coil powered at 60Hz pick-up min %Us 85 max %Us 110 drop-out min %Us 40 max %Us 55 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 210					
pick-up min %Us 85 max %Us 110 drop-out min %Us 40 max %Us 55 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 210		7.50/0011 11 1 1 1 0011	max	%Us	55
min %Us 85 max %Us 110 drop-out min %Us 40 max %Us 55 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 210		•			
max %Us 110		pick-up	•	0/11-	0.5
drop-out min %Us 40 max %Us 55 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 210					
min %Us 40 max %Us 55 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 210		محمد محمد	max	%US	110
max %Us 55 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 210		urop-out	ma:	0/110	40
AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 210					
of 50/60Hz coil powered at 50Hz in-rush VA 210	AC average coil cons	Imption at 20°C	IIIdX	/0US	JJ
in-rush VA 210	AC average con const				
		oi so/ounz coii powered at sonz	in much	١/٨	210
noluing vA 15					
			noluling	٧A	10

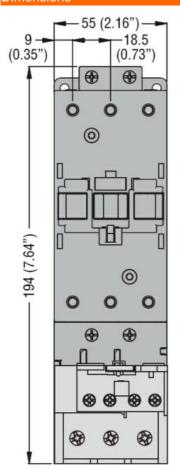


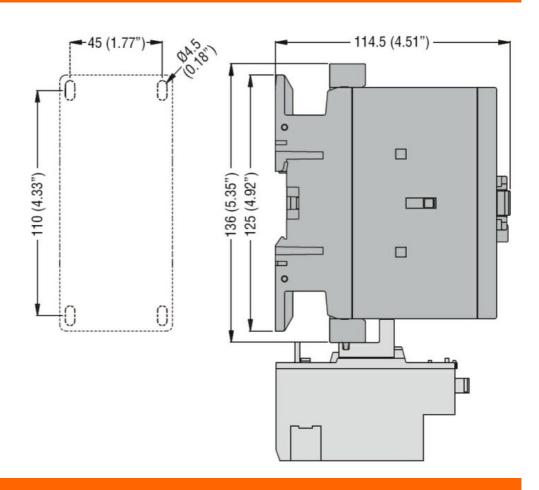
	of 50/60Hz coil powered at 60Hz			
	or 30/00112 con powered at our iz	in-rush	VA	195
		holding	VA	13
	of 60Hz coil powered at 60Hz	Holding	VA	10
	or our iz con powered at our iz	in-rush	VA	210
		holding	VA VA	15
Dissipation at holding s	<20°C EU∏-	Holding	W	5
Max cycles frequency	\$20 C 301 IZ		VV	3
			cycles/h	2600
Mechanical operation Operating times			cycles/fi	3600
-	entral			
Average time for Us co	in AC			
	Closing NO	min		10
		min	ms	12 28
	Opening NO	max	ms	20
	Opening NO	ma:	ma	0
		min	ms	8
III to obvioul data		max	ms	22
UL technical data	for three phase AO			
rull-load current (FLA)	for three-phase AC motor		Α.	40
		at 480V	A	40
	_	at 600V	Α	32
Yielded mechanical pe				
	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				
Temperature				
	Operating temperature			
	· •	min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protection	on			
Pollution degree				3
				-



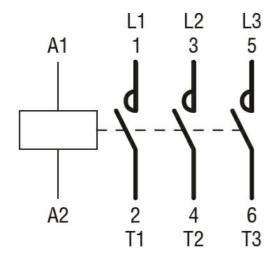
ENERGY AND AUTOMATION

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

Certificates



BF4000A230

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

CCC
cULus

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching





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	18.5
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	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			
	≤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	Α	38
	110V	A	27
	220V	A	32
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	2201		
TEO MAX GATICITE IN 1800 800 WILL ETC = TOTAL WILL 4 POICE IN SCHOOL	≤24V	Α	_
	48V	A	_
	75V	A	_
	110V	A	_
	220V	A	40
Short-time allowable current for 10s (IEC/EN60947-1)	2201	A	400
Protection fuse			400
Fiotection ruse	gG (IEC)	Α	100
	aM (IEC)	A	50
Making capacity (RMS value)	aivi (IEC)	A	400
		A	400
Breaking capacity at voltage	4401/	٨	220
	440V	A	320
	500V	A	265
Desistance per pela (everge value)	690V	A	256
Resistance per pole (average value)		mΩ	0.8
Power dissipation per pole (average value)	1.1	147	2.0
	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	Ibin	3.69
Tightening torque for coil terminal			
	min	Nm	8.0
	max	Nm	1





Weight g 1020 Conductor section max 2 Operations Mechanical life cycles 15000000 Electrical life cycles 1500000 Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 1500000 Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility yes AC coil operating Rated AC voltage at 50/60Hz V 400					
Max number of wires simultaneously connectable Nr. 2 Conductor section max 2 Flexible w/o lug conductor section min mm² 1.5 Flexible c/w lug conductor section min mm² 1.5 Flexible c/w lug conductor section min mm² 1.5 max mm² 35 mm² 35 Power terminal protection according to IEC/EN 60529 mm² 1.5 mm² 35 Power terminal protection according to IEC/EN 60529 monmal allowable 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20			min		
AWG/Kcmil			max		
AWG/Kcmil Plexible w/o lug conductor section min max max more 1.5 max max more 3.5 m		simultaneously connectable		Nr.	2
Periodic Periodic	Conductor section	ANNO 46			
Flexible w/o lug conductor section		AWG/Kcmil			
Plexible c/w lug conductor section		Fig. 3.1	max		2
Plexible c/w lug conductor section min max		Flexible w/o lug conductor section	•	2	4.5
Flexible c/w lug conductor section					
Ministration Mini		Elevible alvebra and destant and a	max	mm-	35
Prower terminal protection according to IEC/EN 60529 IP20 front		Flexible c/w lug conductor section	min	mama ²	1 E
Provided the terminal protection according to IEC/EN 60529 IP20 front Mechanical features IP20 front IP20 front					
Accordance Section S	Dower terminal protec	tion according to IEC/EN 60520	IIIdX	111111	
Departing position		tion according to IEC/EN 60329			IP20 HOHL
Normal allowable Seriew / DIN rail 35mm					
Size 10 10 10 10 10 10 10 1	Operating position		normal		Vertical plan
Screw / DIN rail 35mm 35					
Meight g 1020 Conductor section			allowable		
Weight	Fixing				
AWG/kcmil conductor section max 2	Weight			a	
AWG/kcmil conductor section max	_				
Max 2 2 2 2 2 2 2 2 2		AWG/kcmil conductor section			
Cycles 15000000			max		2
Mechanical life Cycles 1500000	Operations				
Electrical life	Mechanical life			cycles	15000000
Performance level B10d according to EN/ISO 13489-1 rated load cycles 1500000 mechanical load cycles 1500000 mechanical load cycles 15000000 cycles 15000000 cycles 15000000 cycles 15000000 cycles 15000000 cycles 150000000 cycles 1500000000 cycles 150000000 cycles 150000000 cycles 15000000000 cycles 15000000000 cycles 15000000000 cycles 1500000000 cycles 150000000000 cycles 1500000000000 cycles 1500000000000000 cycles 1500000000000000000000000000000000000	Electrical life				1500000
Tated load Procession Pro	Safety related data			·	
Mirror contats according to IEC/EN 609474-4-1 yes	Performance level B1	0d according to EN/ISO 13489-1			
Mirror contats according to IEC/EN 609474-4-1 EMC compatibility AC coil operating Rated AC voltage at 50/60Hz AC operating voltage of 50/60Hz coil powered at 50Hz pick-up min %Us 80 max %Us 110 drop-out min %Us 20 max %Us 55 of 50/60Hz coil powered at 60Hz pick-up min %Us 85 max %Us 110 drop-out min %Us 85 max %Us 110 drop-out min %Us 85 max %Us 110 drop-out min %Us 85 max %Us 150 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 210			rated load	cycles	1500000
EMC compatibility AC coil operating Rated AC voltage at 50/60Hz AC operating voltage of 50/60Hz coil powered at 50Hz pick-up min %Us 80 max %Us 110 drop-out min %Us 20 max %Us 55 of 50/60Hz coil powered at 60Hz pick-up min %Us 85 max %Us 110 drop-out min %Us 85 max %Us 55 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz			mechanical load	cycles	15000000
AC coil operating Rated AC voltage at 50/60Hz AC operating voltage of 50/60Hz coil powered at 50Hz pick-up min %Us 80 max %Us 110 drop-out min %Us 20 max %Us 55 of 50/60Hz coil powered at 60Hz pick-up min %Us 85 max %Us 110 drop-out min %Us 85 max %Us 110 drop-out min %Us 85 max %Us 110 drop-out min %Us 85 max %Us 55 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz	Mirror contats accordi	ng to IEC/EN 609474-4-1			yes
AC operating voltage of 50/60Hz coil powered at 50Hz pick-up min %Us 80 max %Us 110 drop-out min %Us 20 max %Us 55 of 50/60Hz coil powered at 60Hz pick-up min %Us 85 max %Us 110 drop-out min %Us 85 max %Us 55 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 210	EMC compatibility				yes
AC operating voltage of 50/60Hz coil powered at 50Hz pick-up min %Us 80 max %Us 110 drop-out min %Us 20 max %Us 55 of 50/60Hz coil powered at 60Hz pick-up min %Us 85 max %Us 110 drop-out min %Us 85 max %Us 110 drop-out min %Us 85 max %Us 110 drop-out min %Us 40 max %Us 55 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 210	AC coil operating				
of 50/60Hz coil powered at 50Hz pick-up min %Us 80 max %Us 110 drop-out min %Us 20 max %Us 55 of 50/60Hz coil powered at 60Hz pick-up min %Us 85 max %Us 110 drop-out min %Us 85 max %Us 110 drop-out min %Us 85 max %Us 110 drop-out min %Us 40 max %Us 55 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 210	Rated AC voltage at 5	0/60Hz		V	400
Pick-up min %Us 80 max %Us 110 Moreored min %Us 20 max %Us 55 Moreored min %Us 55 max %Us 55 Moreored min %Us 85 max %Us 110 min %Us 85 max %Us 110 min %Us 110 Moreored min %Us 40 max %Us 55 Moreored min %Us 55 max %Us 55 Moreored min %Us 55 Moreored min %Us 55 max 60 m	AC operating voltage				
Min Mus 80 max Mus 110 min Mus 20 max Mus 55		of 50/60Hz coil powered at 50Hz			
Max %Us 110		pick-up			
drop-out min %Us 20 max %Us 55			min		
min %Us 20 max %Us 55			max	%Us	110
max		drop-out			
of 50/60Hz coil powered at 60Hz pick-up min %Us 85 max %Us 110 drop-out min %Us 40 max %Us 55 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 210					
pick-up min %Us 85 max %Us 110 drop-out min %Us 40 max %Us 55 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 210			max	%Us	55
min %Us 85 max %Us 110 drop-out min %Us 40 max %Us 55 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 210		•			
drop-out max %Us 110 min %Us 40 max %Us 55 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 210		pick-up			
drop-out min %Us 40 max %Us 55 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 210					
min %Us 40 max %Us 55 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 210		,	max	%Us	110
max %Us 55 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 210		drop-out		0/11	40
AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 210					
of 50/60Hz coil powered at 50Hz in-rush VA 210	A O "		max	%US	55
in-rush VA 210	AC average coll const				
		or 50/60Hz coil powered at 50Hz		\ / ^	040
noiding VA 15					
			noiding	VA	15



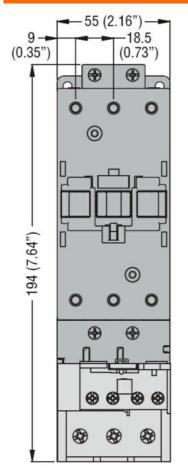


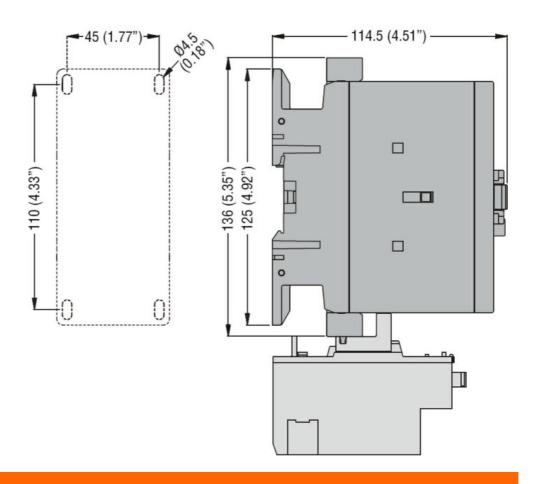
	of 50/60Hz coil power	ed at 60Hz			
	01 30/00112 0011 power	ca at our iz	in-rush	VA	195
			holding	VA	13
	of 60Hz coil powered	at 60Hz	Holding	VA	10
	or our iz con powered	at 00112	in-rush	VA	210
			holding	VA VA	15
Dissipation at holding	<20°C 50∐-		Holding	W	5
Max cycles frequency	\$20 G 30HZ			VV	5
				ovoloo/b	2600
Mechanical operation				cycles/h	3600
Operating times	and and				
Average time for Us co					
	in AC	01 : 110			
		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 mo	otor			
	·		at 480V	Α	40
			at 600V	Α	32
Yielded mechanical pe	erformance				
	for single-phase AC n	notor			
	ioi oiligio pilaco / to li		110/120V	HP	3
			230V	HP	7.5
	for three-phase AC m	otor	2001	• • • •	
	ioi unce-phase AO III	Otol	200/208V	HP	10
			220/230V	пг HP	15
			460/480V	HP	30
				HP	
Congral LICE			575/600V		30
General USE	0				
	Contactor		4.0	Δ.	70
			AC current	A	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					
1 -	Operating temperature	е			
	1 3		min	°C	-50



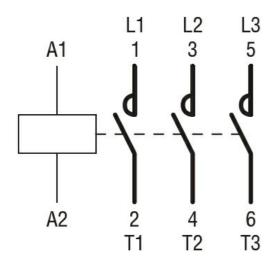
	max	°C	70
Storage temperature			
	min	°C	-60
	max	°C	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3

Dimensions





Wiring diagrams



Certifications and compliance

Compliance



BF4000A400

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 40A, AC COIL 50/60HZ, 400VAC

	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





			33 10 11
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	18.5
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	Α	42
IFO	220V	Α	5
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			40
	≤24V	A	48
	48V	A	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	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	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	Α	_
01 4 (40 (150 (50 (50 (50 (50 (50 (50 (220V	A	40
Short-time allowable current for 10s (IEC/EN60947-1)		Α	400
Protection fuse	0 (150)	•	400
	gG (IEC)	A	100
M. I	aM (IEC)	A	50
Making capacity (RMS value)		Α	400
Breaking capacity at voltage	4.401.4	Δ.	200
	440V	A	320
	500V	A	265
Periotopeo per pelo (averego value)	690V	A	256
Resistance per pole (average value)		mΩ	0.8
Power dissipation per pole (average value)	141	147	2.0
	Ith	W	3.9
Tightoning targue for terminals	AC3	W	1.3
Tightening torque for terminals	!	Nima	1
	min	Nm Nm	4
	max	Nm	5
	min	lbin Ibin	2.95
Tightoning targue for call terminal	max	Ibin	3.69
Tightening torque for coil terminal	min	Nim	0.0
	min max	Nm Nm	0.8 1

3/6



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

		min	lbin	0.8
		max	Ibin	0.74
Max number of wires s	imultaneously 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
	tion 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				
	AWG/kcmil conductor section			
		max		2
Operations				
Mechanical life			cycles	15000000
Electrical life			cycles	1500000
Safety related data				
Performance level B10	od according to EN/ISO 13489-1			
		rated load	cycles	1500000
-		mechanical load	cycles	15000000
	ng to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 60)Hz		V	24
AC operating voltage				
	of 60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	55
AC average coil consu	•			
	of 60Hz coil powered at 60Hz			
		in-rush	VA	210
		holding	VA	15
Dissipation at holding:	≤20°C 50Hz		W	5
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operating times				
Operating times Average time for Us co				

BF4000A02460 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

Closing NO

in AC



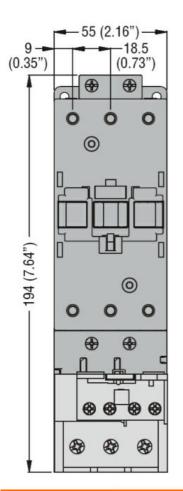


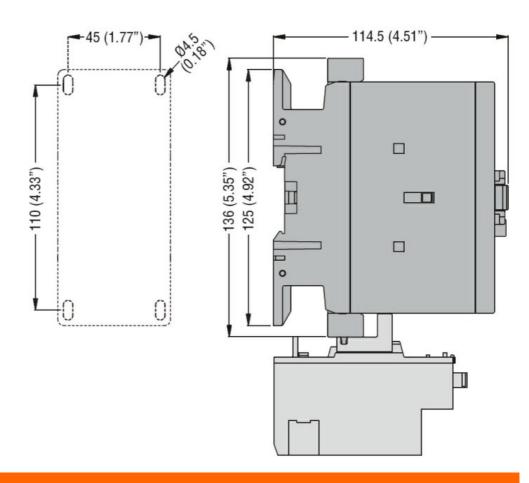
		min	ms	12
		max	ms	28
	Opening NO			
		min	ms	8
		max	ms	22
	in DC			
	Closing NO			
		min	ms	40
		max	ms	85
	Opening NO			
		min	ms	20
		max	ms	55
UL technical data				
Full-load current (FLA)	for three-phase AC motor			
		at 480V	Α	40
		at 600V	Α	32
Yielded mechanical per	formance			
	for single-phase 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			
	S	Short circuit current	kA	100
		Fuse rating	Α	150
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	A	150
		Fuse class		RK5
Ambient conditions				
Temperature				
	Operating temperature			
	1 5 1	min	°C	-50
		max	°C	70
	Storage temperature	-11637		
		min	°C	-60
		max	°C	80
Max altitude		max	m	3000
Resistance & Protection	n			
Pollution degree				3
Dimensions				
Difficitions -				



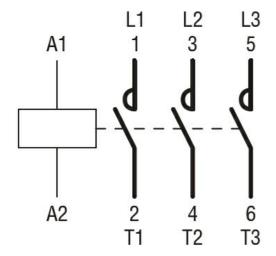
ENERGY AND AUTOMATION

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





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

CCC



BF4000A02460

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 40A, AC COIL 60HZ, 24VAC

cULus

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching







			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	18.5
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	Α	42
IFO	220V	Α	5
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			40
	≤24V	A	48
	48V	A	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	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
150	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	.0.4)./		
	≤24V	A	32
	48V	A	30
	75V	A	27
	110V	A	22
IEC many assument to in DC2 DC5 with L/D < 15 may with 2 males in series	220V	Α	5
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	<04)/	۸	40
	≤24V 48V	A	40
	46 V 75 V	A A	40 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		32
TEO Max current le in 600-600 with E/N 3 Toms with 4 poles in series	≤24V	Α	_
	48V	A	_
	75V	Α	_
	110V	Α	_
	220V	Α	40
Short-time allowable current for 10s (IEC/EN60947-1)		Α	400
Protection fuse			
	gG (IEC)	Α	100
	aM (IEC)	Α	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)			
	Ith	W	3.9
	AC3	W	1.3
Tightening torque for terminals			
	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	lbin	0.8
		max	lbin	0.74
Max number of wires s	imultaneously connectable		Nr.	2
Conductor section	•			
	AWG/Kcmil			
	/ W G// G// III	max		2
	Flexible w/o lug conductor section	max		
	r lexible w/o lug corludctor section	min	mm²	1.5
		min		
		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°
-		anovidatio		Screw / DIN rail
Fixing				35mm
Weight			α	1020
Conductor section			g	1020
Conductor section	ANA/O/I			
	AWG/kcmil conductor section			
		max		2
Operations				
Mechanical life			cycles	15000000
Electrical life			cycles	1500000
Safety related data				
Performance level B10	Od according to EN/ISO 13489-1			
	· ·	rated load	cycles	1500000
		mechanical load	cycles	15000000
Mirror contats according	ng to IEC/EN 609474-4-1		-,	yes
EMC compatibility	19 10 12 07 21 4 000 17 1 1 1			
AC coil operating				yes
	01.1-		\ /	40
Rated AC voltage at 60	J□2		V	48
AC operating voltage				
	of 60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	55
AC average coil consu	Imption at 20°C			
	of 60Hz coil powered at 60Hz			
	5. 55. 12 56.1 powered at 56.12	in-rush	VA	210
		holding	VA VA	15
Dissipation at I-1-1:	<20°C F0LI -	noiuing		
Dissipation at holding:	≥∠U ∪ ƏUHZ		W	5
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us co	ontrol			
	in AC			

in AC

Closing NO

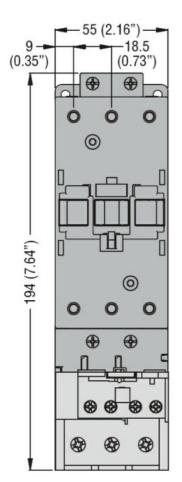


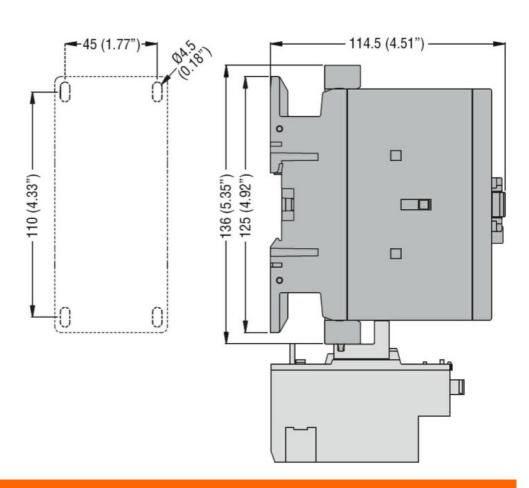


			min	ms	12
		_	max	ms	28
	C	Opening NO			
			min	ms	8
			max	ms	22
	in DC				
	C	Closing NO			
			min	ms	40
			max	ms	85
	C	Opening NO			
			min	ms	20
			max	ms	55
UL technical data					
Full-load current (FL	A) for three-phase AC motor				
			at 480V	Α	40
			at 600V	Α	32
Yielded mechanical	performance			_	
	for single-phase AC moto	or			
			110/120V	HP	3
			230V	HP	7.5
	for three-phase AC moto	r			
			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 protect	on fuse, 600V				
·	High fault				
	3		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				-
	3.0.0.95 .01110010.010		min	°C	-60
			max	°C	80
Max altitude			max	m	3000
Resistance & Prote	ction			111	
Pollution degree					3
Dimensions					

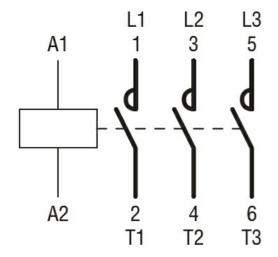


ENERGY AND AUTOMATION





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

CCC



BF4000A04860

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

cULus

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching





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	18.5
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	A	40
	48V	A	35
	75V	A	30
	110V	A	8
150	220V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	-04) /	۸	40
	≤24V	A	48
	48V	A	48 45
	75V	A	45 42
	110V 220V	A	42 5
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	ZZUV	Α	5
TEC max current le in DCT with L/K > This with 3 poles in series	~2A\/	٨	10
	≤24V 48V	A	48
	48 V 75 V	A	48 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	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	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	Α	_
01 4 (40 (150 (51 (60 4 7 4)	220V	Α	40
Short-time allowable current for 10s (IEC/EN60947-1)		Α	400
Protection fuse	0 (150)	_	400
	gG (IEC)	A	100
Mall'access (CDMO all a)	aM (IEC)	A	50
Making capacity (RMS value)		Α	400
Breaking capacity at voltage	4.401.4	^	200
	440V	A	320
	500V	A	265
Periotopeo per pelo (averago valvo)	690V	A	256
Resistance per pole (average value)		mΩ	0.8
Power dissipation per pole (average value)	141	147	2.0
	Ith	W	3.9
Tightoning targue for terminals	AC3	W	1.3
Tightening torque for terminals	!	N I.a.	4
	min	Nm Nm	4
	max	Nm	5
	min	lbin Ibin	2.95
Tightoning targue for call terminal	max	Ibin	3.69
Tightening torque for coil terminal	min	Nim	0.0
	min max	Nm Nm	0.8 1



		min	lbin	0.8
		max	lbin	0.74
Max number of wires s	imultaneously connectable		Nr.	2
Conductor section	•			
	AWG/Kcmil			
	7.00 671.611	max		2
	Flexible w/o lug conductor section	max		
	r lexible w/o lug corludctor section	min	mm²	1.5
		min		
		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°
-		anovidato		Screw / DIN rail
Fixing				35mm
Weight			α	1020
Conductor section			g	1020
Conductor section	ANA(O/I) 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
	AWG/kcmil conductor section			
		max		2
Operations				
Mechanical life			cycles	15000000
Electrical life			cycles	1500000
Safety related data				
Performance level B10	Od according to EN/ISO 13489-1			
	· ·	rated load	cycles	1500000
		mechanical load	cycles	15000000
Mirror contats according	ng to IEC/EN 609474-4-1		-,	yes
EMC compatibility	19 10 12 07 21 4 000 17 1 1 1			
AC coil operating				yes
			\ /	100
Rated AC voltage at 60	JHZ		V	120
AC operating voltage				
	of 60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out			
	·	min	%Us	20
		max	%Us	55
AC average coil consu	Imption at 20°C			<u> </u>
avalago oon oonsu	of 60Hz coil powered at 60Hz			
	or our iz doil powered at our iz	in-rush	VA	210
District Control	400°0 FOLL-	holding	VA	15
Dissipation at holding :	SZU U 5UHZ		W	5
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us co	ontrol			
=	in AC			

Closing NO

in AC

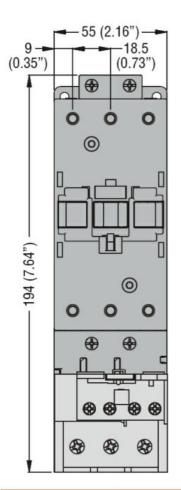


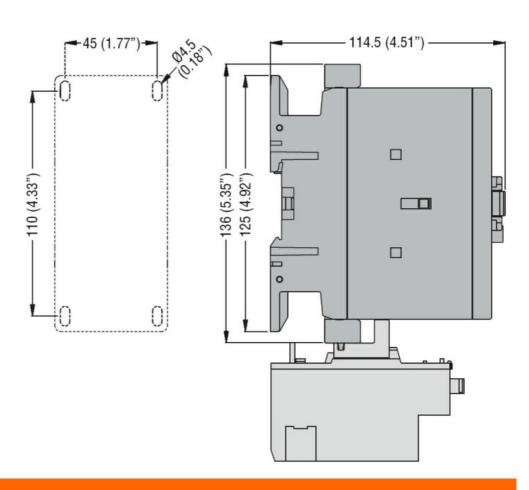


			min	ms	12
		_	max	ms	28
	C	Opening NO			
			min	ms	8
			max	ms	22
	in DC				
	C	Closing NO			
			min	ms	40
			max	ms	85
	C	Opening NO			
			min	ms	20
			max	ms	55
UL technical data					
Full-load current (FL	A) for three-phase AC motor				
			at 480V	Α	40
			at 600V	Α	32
Yielded mechanical	performance			_	
	for single-phase AC moto	or			
			110/120V	HP	3
			230V	HP	7.5
	for three-phase AC moto	r			
			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 protect	on fuse, 600V				
·	High fault				
	3		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				-
	3.0.0.95 .01110010.010		min	°C	-60
			max	°C	80
Max altitude			max	m	3000
Resistance & Prote	ction			111	
Pollution degree					3
Dimensions					

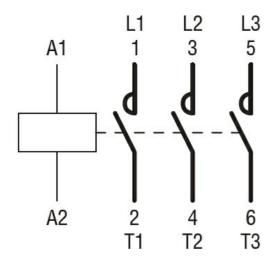


ENERGY AND AUTOMATION





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

CCC



BF4000A12060

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

cULus

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching





Product designation Power contactor **BF40** Product type designation Contact characteristics Nr. 3 Number of poles Rated insulation voltage Ui IEC/EN ٧ 1000 k√ Rated impulse withstand voltage Uimp 8 Operational frequency min Η 25 max Hz 400 IEC Conventional free air thermal current Ith 70 Α 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) 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 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 30 Α 110V Α 8 220V Α IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V 48 Α 48V Α 48 45 75V Α 110V Α 42 220V 5 IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V 48 Α 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	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
150	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	.0.4)./		
	≤24V	A	32
	48V	A	30
	75V	A	27
	110V	A	22
IEC many assument to in DC2 DC5 with L/D < 15 may with 2 males in series	220V	Α	5
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	<04)/	۸	40
	≤24V 48V	A	40
	46 V 75 V	A A	40 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		32
TEO Max current le in 600-600 with E/N 3 Toms with 4 poles in series	≤24V	Α	_
	48V	A	_
	75V	Α	_
	110V	Α	_
	220V	Α	40
Short-time allowable current for 10s (IEC/EN60947-1)		Α	400
Protection fuse			
	gG (IEC)	Α	100
	aM (IEC)	Α	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)			
	Ith	W	3.9
	AC3	W	1.3
Tightening torque for terminals			
	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	lbin	0.8
		max	lbin	0.74
Max number of wires s	imultaneously connectable		Nr.	2
Conductor section	•			
	AWG/Kcmil			
	/ W G// G// III	max		2
	Flexible w/o lug conductor section	Пах		
	Flexible w/o lug conductor section			4.5
		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°
		anomabio		Screw / DIN rail
Fixing				35mm
Weight			α	1020
Conductor section			g	1020
Conductor section	ANA/O/I			
	AWG/kcmil conductor section			
		max		2
Operations				
Mechanical life			cycles	15000000
Electrical life			cycles	1500000
Safety related data				
Performance level B10	Od according to EN/ISO 13489-1			
	-	rated load	cycles	1500000
		mechanical load	cycles	15000000
Mirror contats according	ng to IEC/EN 609474-4-1		-,	yes
EMC compatibility	19 10 12 07 21 4 000 17 1 1 1			
AC coil operating				yes
	01.1-		\ /	000
Rated AC voltage at 60	JHZ		V	220
AC operating voltage				
	of 60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out			
	•	min	%Us	20
		max	%Us	55
AC average coil consu	Imption at 20°C			
	of 60Hz coil powered at 60Hz			
	5. 55. 12 56.1 powered at 56.12	in-rush	VA	210
		holding	VA VA	15
Discipation of In-I-II	<20°C F0LI -	noluling		
Dissipation at holding:	≥∠U ∪ ƏU⊓∠		W	5
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us co	ontrol			
	in AC			

Closing NO

in AC

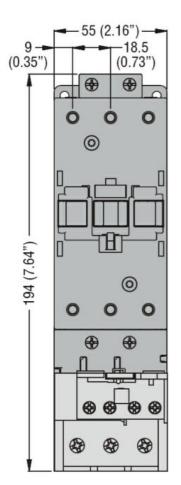


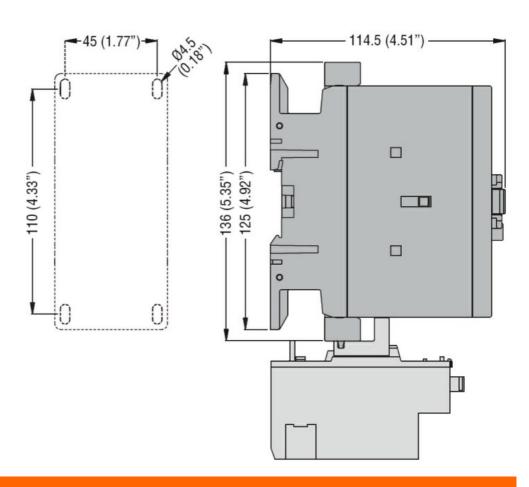


		min	ms	12
		max	ms	28
	Opening NO			
		min	ms	8
		max	ms	22
	in DC			
	Closing NO			
		min	ms	40
		max	ms	85
	Opening NO			
		min	ms	20
		max	ms	55
UL technical data				
Full-load current (FLA)	for three-phase AC motor			
		at 480V	Α	40
		at 600V	Α	32
Yielded mechanical per	formance			
	for single-phase 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			
	1.1911.10011	Short circuit current	kA	100
		Fuse rating	Α	150
		Fuse class		J
	Standard fault	. 455 5.466		
		Short circuit current	kA	5
		Fuse rating	A	150
		Fuse class	, ,	RK5
Ambient conditions		1 450 51433		
Temperature				
· omporaturo	Operating temperature			
	operating temperature	min	°C	-50
		max	°C	70
	Storage temperature	IIIax		
	Ciorago tomperature	min	°C	-60
			°C	-60 80
Max altitude		max		
			m	3000
Resistance & Protection				2
Pollution degree				3
Dimensions				

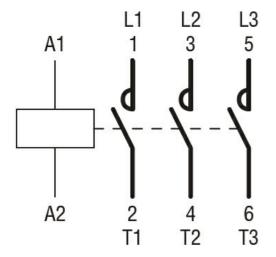


ENERGY AND AUTOMATION





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

CCC



BF4000A22060

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

cULus

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching



ENERGY AND AUTOMATION



			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	18.5
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	Α	42
IFO	220V	Α	5
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			40
	≤24V	A	48
	48V	A	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	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	A	30
	75V	A	27
	110V	A	22
150 H. I. DOO DOE 191 I /D 4 45 H. I. I. I.	220V	Α	5
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	40 AV		4.0
	≤24V	A	40
	48V	A	40
	75V	A	38
	110V 220V	A A	27 32
IEC may current to in DC2 DC5 with L/D < 15mg with 4 malos in parise	2200	A	32
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	<24)/	۸	
	≤24V 48V	A A	_
	75V	A	_ _
	110V	A	_
	220V	A	40
Short-time allowable current for 10s (IEC/EN60947-1)	220 V	A	400
Protection fuse			100
1 Total of Trade	gG (IEC)	Α	100
	aM (IEC)	A	50
Making capacity (RMS value)	aivi (i20)	A	400
Breaking capacity at voltage			100
2.com.ing capacity at rollage	440V	Α	320
	500V	A	265
	690V	Α	256
Resistance per pole (average value)		mΩ	0.8
Power dissipation per pole (average value)			
	Ith	W	3.9
	AC3	W	1.3
Tightening torque for terminals			
5 5 11 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	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	lbin	0.8
		max	Ibin	0.74
Max number of wires s	imultaneously 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
	tion 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				
	AWG/kcmil conductor section			
		max		2
Operations				
Mechanical life			cycles	15000000
Electrical life			cycles	1500000
Safety related data				
Performance level B10	od according to EN/ISO 13489-1			
		rated load	cycles	1500000
		mechanical load	cycles	15000000
	ng to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 60	OHz OHz		V	230
AC operating voltage				
	of 60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out		0	
		min	%Us	20
		max	%Us	55
AC average coil consu	·			
	of 60Hz coil powered at 60Hz			
		in-rush	VA	210
		holding	VA	15
Dissipation at holding	≤20°C 50Hz		W	5
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operation times				
Operating times Average time for Us co				

Closing NO

in AC



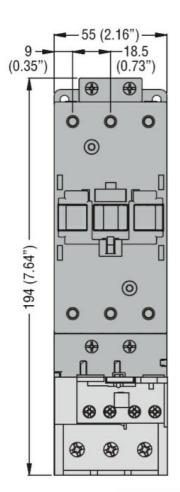


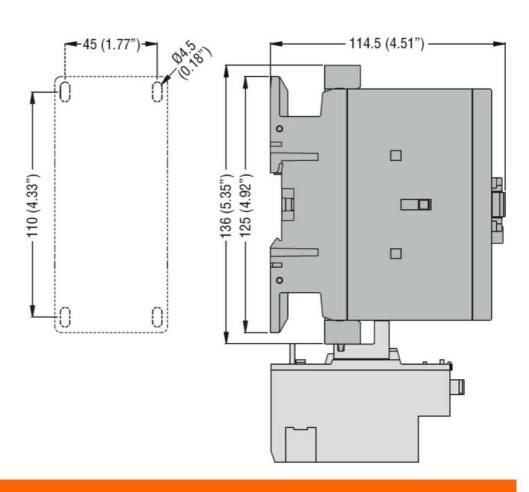
		min	ms	12
		max	ms	28
	Opening NO			
		min	ms	8
		max	ms	22
	in DC			
	Closing NO			
		min	ms	40
		max	ms	85
	Opening NO			
		min	ms	20
		max	ms	55
UL technical data				
Full-load current (FLA)	for three-phase AC motor			
		at 480V	Α	40
		at 600V	Α	32
Yielded mechanical per	formance			
	for single-phase 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			
	3	Short circuit current	kA	100
		Fuse rating	Α	150
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	A	150
		Fuse class		RK5
Ambient conditions				
Temperature				
	Operating temperature			
	3 1	min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude		max	m	3000
Resistance & Protection	n			
Pollution degree				3
Dimensions				
Difficitions -				

230VAC

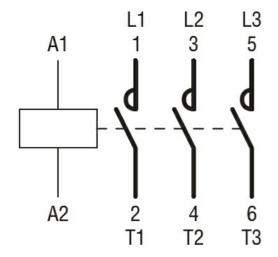


ENERGY AND AUTOMATION





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

CCC



BF4000A23060

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

cULus

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching





			33 10 11
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	18.5
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	Α	42
	220V	Α	5
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			40
	≤24V	Α	48
	48V	A	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	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	A	5	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	220 V		<u> </u>	
TEO THAX CUITER REPOSED OF WILL ETC 2 TOTAL WILL O POLES IN Series	≤24V	Α	40	
	48V	A	40	
	75V	A	38	
	110V	A	36 27	
	220V		32	
IFC many assemble in DC2 DC5 with L/D < 45 may with 4 males in acrise	220 V	A	32	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	<0.41/	^		
	≤24V	A	_	
	48V	A	_	
	75V	A	_	
	110V	A	_	
Ol and the college of the college of the AO (15 O (5 N 10 O A 7 A))	220V	A	40	
Short-time allowable current for 10s (IEC/EN60947-1)		Α	400	
Protection fuse	o ((= o)	_		
	gG (IEC)	Α	100	
	aM (IEC)	Α	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)				
	Ith	W	3.9	
	AC3	W	1.3	
Tightening torque for terminals			<u>-</u>	_
	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 s	imultaneously connectable		Nr.	2
Conductor section	•			
	AWG/Kcmil			
	7.00 671.611	max		2
	Flexible w/o lug conductor section	max		
	r lexible w/o lug corludctor section	min	mm²	1.5
		min		
		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°
-		anovidato		Screw / DIN rail
Fixing				35mm
Weight			α	1020
Conductor section			g	1020
Conductor section	ANA(O/I) 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
	AWG/kcmil conductor section			
		max		2
Operations				
Mechanical life			cycles	15000000
Electrical life			cycles	1500000
Safety related data				
Performance level B10	Od according to EN/ISO 13489-1			
	· ·	rated load	cycles	1500000
		mechanical load	cycles	15000000
Mirror contats according	ng to IEC/EN 609474-4-1		-,	yes
EMC compatibility	19 10 12 07 21 4 000 17 1 1 1			
AC coil operating				yes
	01.1-		\ /	100
Rated AC voltage at 60	JHZ		V	460
AC operating voltage				
	of 60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	55
AC average coil consu	Imption at 20°C			
	of 60Hz coil powered at 60Hz			
	5. 55. 12 56.1 powered at 56.12	in-rush	VA	210
		holding	VA VA	15
Disable 4 1 - 1 12	<00°C FOLL-	noluing		
Dissipation at holding:	≥∠U ∪ ƏUHZ		W	5
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us co	ontrol			
	in AC			

Closing NO

in AC

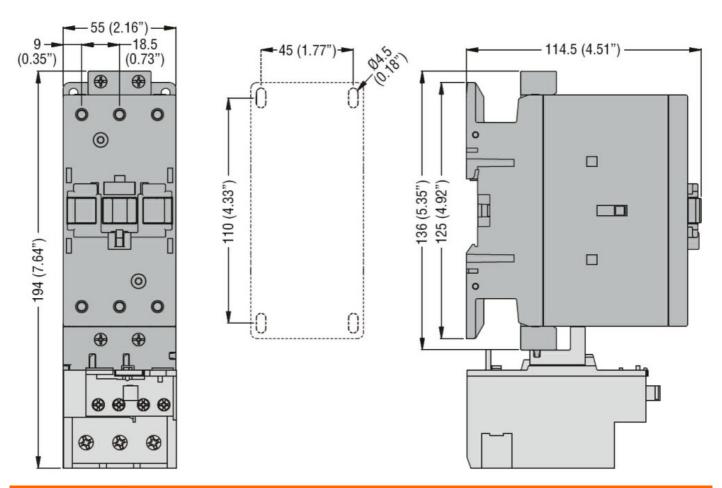




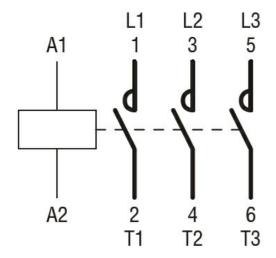
		min	ms	12
		max	ms	28
	Opening NO			
		min	ms	8
		max	ms	22
	in DC			
	Closing NO			
		min	ms	40
		max	ms	85
	Opening NO			
		min	ms	20
		max	ms	55
UL technical data				
Full-load current (FLA)	for three-phase AC motor			
		at 480V	Α	40
		at 600V	Α	32
Yielded mechanical per	formance			
	for single-phase 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			
	3	Short circuit current	kA	100
		Fuse rating	Α	150
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	A	150
		Fuse class		RK5
Ambient conditions				
Temperature				
	Operating temperature			
	3 1	min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude		max	m	3000
Resistance & Protection	n			
Pollution degree				3
Dimensions				
Difficitions -				



ENERGY AND AUTOMATION



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

CCC



BF4000A46060

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

cULus

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching



BF4000A57560

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



Product designation Power contactor **BF40** Product type designation Contact characteristics Nr. 3 Number of poles Rated insulation voltage Ui IEC/EN ٧ 1000 k√ Rated impulse withstand voltage Uimp 8 Operational frequency min Η 25 max Hz 400 IEC Conventional free air thermal current Ith 70 Α 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) 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 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 30 Α 110V Α 8 220V Α IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V 48 Α 48V Α 48 45 75V Α 110V Α 42 220V 5 IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V 48 Α 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	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	A	30
	75V	A	27
	110V	A	22
150 H. I. DOO DOE 191 I /D 4 45 H. I. I. I.	220V	Α	5
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	40 AV		4.0
	≤24V	A	40
	48V	A	40
	75V	A	38
	110V 220V	A A	27 32
IEC may current to in DC2 DC5 with L/D < 15mg with 4 malos in parise	2200	A	32
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	<24)/	۸	
	≤24V 48V	A A	_
	75V	A	_ _
	110V	A	_
	220V	A	40
Short-time allowable current for 10s (IEC/EN60947-1)	220 V	A	400
Protection fuse			100
1 Total of Trade	gG (IEC)	Α	100
	aM (IEC)	Α	50
Making capacity (RMS value)	aivi (i20)	A	400
Breaking capacity at voltage			100
2.com.ing capacity at rollage	440V	Α	320
	500V	A	265
	690V	Α	256
Resistance per pole (average value)		mΩ	0.8
Power dissipation per pole (average value)			
	Ith	W	3.9
	AC3	W	1.3
Tightening torque for terminals			
5 5 11 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	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	lbin	0.8
		max	lbin	0.74
Max number of wires s	imultaneously connectable		Nr.	2
Conductor section	•			
	AWG/Kcmil			
	/ W G// Gillii	max		2
	Flexible w/o lug conductor section	IIIAX		
	r lexible w/o lug corluctor section	min	mm²	1.5
		min		
		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°
		anomable		Screw / DIN rail
Fixing				35mm
Weight				1020
			g	1020
Conductor section				
	AWG/kcmil conductor section			
		max		2
Operations				
Mechanical life			cycles	15000000
Electrical life			cycles	1500000
Safety related data				
	Od according to EN/ISO 13489-1			
	3	rated load	cycles	1500000
		mechanical load	cycles	15000000
Mirror contate according	ng to IEC/EN 609474-4-1	THEOHAITICAI TOAG	Сусісз	
	ig to IEC/EIN 009474-4-1			yes
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 60	0Hz		V	575
AC operating voltage				
	of 60Hz coil powered at 60Hz			
	pick-up			
	· ·	min	%Us	80
		max	%Us	110
	drop-out	max		- -
	a.op	min	%Us	20
		max	%Us	55
AC average sell core:	umption at 20°C	IIIdX	/003	00
AC average coil consu				
	of 60Hz coil powered at 60Hz			0.4.0
		in-rush	VA	210
		holding	VA	15
Dissipation at holding:	≤20°C 50Hz		W	5
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us co	ontrol			
514g5 tillo 101 05 00	in AC			

in AC

Closing NO



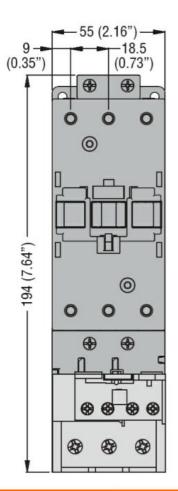


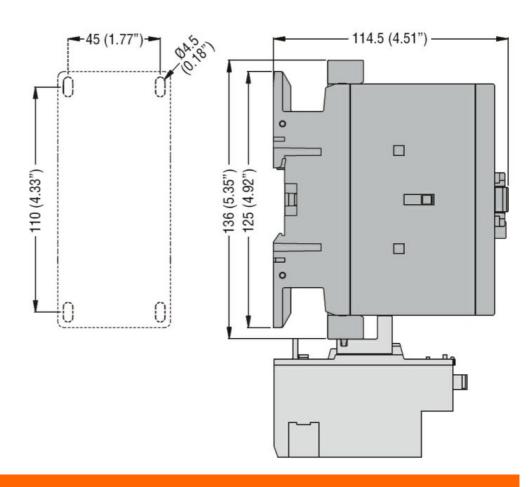
		min	ms	12
		max	ms	28
	Opening NO			
		min	ms	8
		max	ms	22
	in DC			
	Closing NO			
		min	ms	40
		max	ms	85
	Opening NO			
		min	ms	20
		max	ms	55
UL technical data				
Full-load current (FLA)	for three-phase AC motor			
		at 480V	Α	40
		at 600V	Α	32
Yielded mechanical per	formance			
	for single-phase 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			
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Short-circuit protection	fuse, 600V			
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Ambient conditions				
Temperature				
	Operating temperature			
	3 1	min	°C	-50
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		max	°C	80
Max altitude		max	m	3000
Resistance & Protection	n			
Pollution degree				3
Dimensions				
Difficitions -				



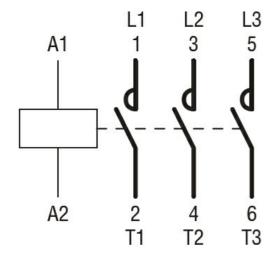
ENERGY AND AUTOMATION

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