



Product designation Product type designation			Power contactor BF40
Contact characteristics			
Number of poles		Nr.	4
Rated insulation voltage Ui IEC/EN		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operational frequency			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		А	70
Operational current le			
	AC-1 (≤40°C)	А	70
	AC-1 (≤55°C)	А	60
	AC-1 (≤70°C)	А	50
	AC-3 (≤440V ≤55°C)	А	40
	AC-4 (400V)	Α	24
Rated operational current AC-3 (T≤55°C)			
	230V	А	40
	400V	А	40
	415V	А	40
	440V	А	40
	500V	А	33
	690V	А	32
	1000V	А	21
Rated operational power AC-1 (T≤40°C)			
	230V	kW	26
	400V	kW	46
	500V	kW	58
	690V	kW	79
IEC max current le in DC1 with $L/R \le 1$ ms with 1 poles in series			
	≤24V	A	40
	48V	A	35
	75V	А	30
	110V	А	8
	220V	A	_
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series	_	-	10
	≤24V	A	48
	48V	A	48
	75V	A	45
	110V	A	42
	220V	A	5
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			40
	≤24V	A	48
	48V	A	48
	75V	А	48

BF40T4A110



BF40T4A110 FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 70A, AC COIL 50/60HZ,

ENERGY AND AUTOMATION		1011	110VAC
	110V	А	44
	220V	А	56
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	А	_
	48V	А	-
	75V	А	-
	110V	А	-
	220V	А	70
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 1 poles in series			
	≤24V	А	27
	48V	А	23
	75V	А	19
	110V	А	3
	220V	А	-
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 2 poles in series			
	≤24V	А	32
	48V	А	30
	75V	А	27
	110V	А	22

220V

А

min

max

Nm

Nm

0.8

1

5

IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	≤24V	А	40
	48V	А	40
	75V	А	38
	110V	А	27
	220V	А	32
IEC max current le in DC3-DC5 with L/R \leq 15ms with 4 poles in series			
	≤24V	А	_
	48V	А	_
	75V	А	_
	110V	А	_
	220V	А	40
Short-time allowable current for 10s (IEC/EN60947-1)		Α	400

Short-time allowable current for 10s (IEC/EN60947-1)		A	400
Protection fuse			
	gG (IEC)	А	100
	aM (IEC)	А	50
Making capacity (RMS value)		А	400
Breaking capacity at voltage			
	440V	А	320
	500V	А	265
	690V	А	256
Resistance per pole (average value)		mΩ	0.8
Power dissipation per pole (average value)			
	Ith	W	3.9
	AC-3	W	1.3
Tightening torque for terminals			
	min	Nm	4
	max	Nm	5
	min	Ibin	2.95
	max	Ibin	3.69
Tightening torque for coil terminal			



BF40T4A110 FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 70A, AC COIL 50/60HZ, 110VAC

max Ibin 0.74 Max number of wires simultaneously connectable Nr. 2 Conductor section max 2 Flexible w/o lug conductor section max 1.5 Flexible c/w lug conductor section mm² 1.5 Flexible c/w lug conductor section mm² 1.5 Power terminal protection according to IEC/EN 60529 IP20 front Wechanical features mm² 35 Operating position g 1240 Conductor section max 2 Neight g 1240 Conductor section max 2 Operations g 1500000 Electrical life cycles 1500000 Setety related data sion000 1500000 mechanical load cycles 1500000 Miror contats according to EIC/EN 609474-4-1 yes EMC compatibility yes				11- 1	0.0
Viex number of wires simultaneously connectable Nt. 2 Conductor section AWG/Kcmil 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 Flexible c/w lug conductor section min mm² 1.5 max mm² 35 Flexible c/w lug conductor section mormal allowable 430° Flexing Neight go 1240 Conductor section AWG/kcmil conductor s			min	lbin Ibin	0.8
Conductor section AWG/Kcmil max 2 Flexible w/o lug conductor section min mm² 1.5 max mm² 35 Flexible c/w lug conductor section min mm² 1.5 max mm² 35 Power terminal protection according to IEC/EN 60529 IP20 front Mechanical features mormal Vertical plan Spearating position normal Vertical plan Serve / DIN rail 35 min 30° AwG/kcmil conductor section max 2 Deparations g 1240 Conductor section max 2 Deparations cycles 15000000 Electrical life cycles 1500000 Electrical life cycles 1500000 Safety related data cycles 1500000 Were contraits according to IEC/EN 609474-4-1 yes VC coll oparating v 110 Mated AC volage at 50/60Hz v 110 AC operating voltage of 50/60Hz coil powered at 50Hz v 110 min	Max number of wires	simultaneously connectable	max		
AWG/Kcmil max 2 Flexible w/o lug conductor section mmx mmx 35 Flexible c/w lug conductor section mmx mmx 35 Prevent leminal protection according to IEC/EN 60529 mmx mmx 15 Prevent leminal protection according to IEC/EN 60529 mmx mmx 20 Comport leminal protection according to IEC/EN 60529 mormal Vertical plan Mechanical flexatures 430° 35mm Pring Screw / DIN rain 35mm Neight g 1240 Conductor section max 2 AWG/kcmil conductor section max 2 Setter related data cycles 1500000 Setter related data cycles 1500000 Setter related data cycles 1500000 Miror contats according to IEC/EN 609474-4-1 yes 1500000 Miror contats according to IEC/EN 609474-4-1 yes 1500000 Miror contats according to IEC/EN 609474-4-1 yes 1500000 Miror contats according to IEC/EN 609474-4-1 <td></td> <td></td> <td></td> <td>INI.</td> <td>2</td>				INI.	2
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Flexible c/w lug conductor section min mm² 1.5 Power terminal protection according to IEC/EN 60529 IP20 front Vectoral features normal Vertical plan allowable ±30° strew / DIN rail String g 1240 Onductor section g 1240 Onductor section max 2 Operations g 1240 Conductor section max 2 Detertions cycles 1500000 Electrical life cycles 1500000 Safety related data cycles 1500000 Werdy contats according to EN/ISO 13489-1 rated load cycles 1500000 Mirror contats according to IEC/EN 609474-4-1 yes yes 1500000 Mirror contats according to IEC/EN 609474-4-1 yes yes 100000 Mirror contats according to IEC/EN 609474-4-1 yes yes 100000 Mirror contats according to IEC/EN 609474-4-1 yes yes 100000 Mirror contats according to IEC/EN 609474-4-1 yes yes 100000 yes 100000			min	mm²	1.5
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Power terminal protection according to IEC/EN 60529 IP20 front Mechanical features Deprating position normal allowable ±30° Screw / DIN rail 35mm Neight g 1240 Conductor section AWG/kcmil conductor section Conductor section AWG/kcmil conductor section Mechanical life cycles 1500000 Electrical life cycles 1500000 Electrical life cycles 1500000 Performance level B10d according to EN/ISO 13489-1 Performance level B10d a					
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Operating position normal allowable Vertical plan allowable = x30° x30° = xing Screw / DIN rail 35mm Weight g 1240 Conductor section max 2 AWG/kcmil conductor section max 2 Operations rated load cycles 1500000 Electrical life cycles 1500000 Safety related data rated load cycles 1500000 Wirror contats according to EN/ISO 13489-1 rated load cycles 1500000 Wirror contats according to IEC/EN 609474-4-1 yes 1500000 Vico compatibility yes yes Coll operating yes 100 AC coll operating wills 100 AC coll operating v 110 AC operating voltage of 50/60Hz coil powered at 50Hz yes pick-up min %Us 80 max %Us 110 10 Ac operating voltage of 50/60Hz coil powered at 60Hz max <		tion according to IEC/EN 60529			IP20 front
normal allowable Vertical plan ±30° Tixing Screw / DIN rail 35mm Weight g Conductor section g AWG/kcmil conductor section max Performance level B10d according to EN/ISO 13489-1 rated load Performance level B10d according to EN/ISO 13489-1 yes Witror contats according to IEC/EN 609474-4-1 yes WC compatibility yes VC coll operating v Information for 50/60Hz V Ito for 50/60Hz coil powered at 50Hz pick-up min max %Us 6f 50/60Hz coil powered at 60Hz min pick-up min min %Us 6f 50/60Hz coil powered at 60Hz min pick-up min min %Us 6f 50/60Hz coil powered at 60Hz min pick-up min min %Us 6f 50/60Hz coil powered at 60Hz min pick-up min min %Us 6f 50/60Hz coil powered at 60Hz pick-up min min %Us 6f 50/60Hz coil powered at 50Hz min %Us 6f 50/60Hz coil powered at 50Hz					
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max 2 Operations	Conductor section				
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Safety related data rated load cycles 1500000 Performance level B10d according to EN/ISO 13489-1 rated load cycles 1500000 Mirror contats according to IEC/EN 609474-4-1 yes yes EMC compatibility yes yes AC coil operating v 110 AC operating voltage of 50/60Hz coil powered at 50Hz pick-up min %Us 80 max Mirror-out min %Us 55 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 max %Us 110 55 of 50/60Hz coil powered at 60Hz pick-up min %Us 85 max %Us 110 110 110 drop-out min %Us 85 max %Us 110 110 drop-out min %Us 85 max %Us 55 55 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 210					
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rated load mechanical load cycles 1500000 Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility yes AC coil operating yes Rated AC voltage at 50/60Hz V 110 AC operating voltage v 110 AC operating voltage of 50/60Hz coil powered at 50Hz pick-up wills 80 min %Us 80 max %Us 110 drop-out min %Us 55 5 of 50/60Hz coil powered at 60Hz pick-up 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 110 drop-out min %Us 110 drop-out max %Us 55 of 50/60Hz coil powered at 60Hz pick-up min %Us 55 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz min %Us 55 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush <td></td> <td>0d according to EN/ISO 13489-1</td> <td></td> <td></td> <td></td>		0d according to EN/ISO 13489-1			
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max %Us 55 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
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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		0/11	10
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		imption at 20°C	max	%US	00
in-rush VA 210	AC average coll const				
			in-ruch	\/Δ	210
			is	.,,	

BF40T4A110

electric ENERGY AND AUTOMATION

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 70A, AC COIL 50/60HZ,

110VAC

BF40T4A110

	of 50/60Hz coil powered at 60	Hz		
		in-rush	VA	195
		holding	VA	13
	of 60Hz coil powered at 60Hz		•/ (10
	of our z coll powered at our z	in-rush	١/٨	210
			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	ntrol			
0	in AC			
		ng NO		
		min	ms	12
		max	ms	28
	Open	ing NO		
		min	ms	8
		max	ms	22
	in DC			
	Closir	ng NO		
		min	ms	40
		max	ms	85
	0.000	ing NO	113	00
	Open	-		00
		min	ms	20
		max	ms	55
UL technical data				
Full-load current (FLA)	for three-phase AC motor			
		at 480V	А	40
		at 600V	А	32
Yielded mechanical pe	rformance			
	for single-phase AC motor			
	isi single phase Ao motol	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			
	Contactor		٨	70
	fue =	AC current	A	70
Short-circuit protection				
	High fault			
		Short circuit current	kA	100
		Fuse rating	А	150
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	A	150
		-	А	
		Fuse class		RK5
Ambient conditions				
Temperature				
	Operating temperature			
	- •	min	°C	-50
			-	

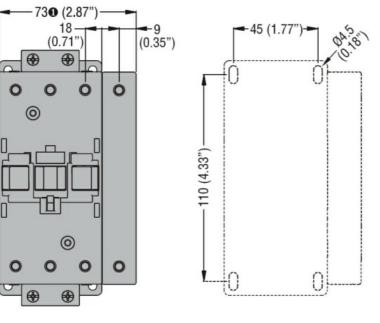
The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding BF40T4A110

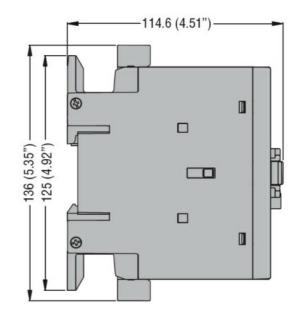


BF40T4A110 FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 70A, AC COIL 50/60HZ, 110VAC

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

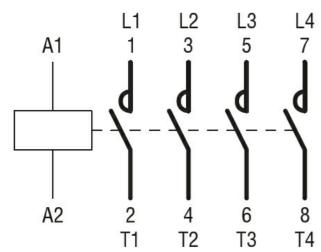
Dimensions





• BF80T2 82mm/3.23"

Wiring diagrams



Certifications and 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

Compliance

BF40T4A110

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ETIM 8.0

BF40T4A110 FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 70A, AC COIL 50/60HZ, 110VAC

	CCC	
	cULus	
ETIM classification		
		EC000066 -

EC000066 -Power contactor, AC switching