



Product designation Power contactor
Product type designation BF40

Product type designation			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		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 current AC-3 (T≤55°C)			
	230V	Α	40
	400V	Α	40
	415V	Α	40
	440V	Α	40
	500V	Α	33
	690V	Α	32
	1000V	Α	21
Rated operational power AC-1 (T≤40°C)			
	230V	kW	26
	400V	kW	46
	500V	kW	58
	690V	kW	79
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
	≤24V	Α	40
	48V	Α	35
	75V	Α	30
	110V	Α	8
	220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
	≤24V	Α	48
	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





	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	A	_	
	220V	Α	40	
Short-time allowable current for 10s (IEC/EN60947-1)		Α	400	
Protection fuse				
T TO COOLON TO CO	gG (IEC)	Α	100	
	aM (IEC)	A	50	
Making capacity (RMS value)	aw (ieo)	A	400	
Breaking capacity at voltage			400	
Distancy supports at voltage	440V	Α	320	
	500V	A	265	
	690V	A	256	
Resistance per pole (average value)	000 0	mΩ	0.8	
Power dissipation per pole (average value)		11122	0.0	
i ower dissipation per pole (average value)	Ith	W	3.9	
	AC-3	W	3.9 1.3	
Tightening torque for terminals	AU-3	٧٧	1.0	
rightening torque for terminals		Nice	4	
	min	Nm Nm	4	
	max	Nm	5 3.05	
	min	lbin	2.95	
Timbioning towns for sail towns -1	max	lbin	3.69	
Tightening torque for coil terminal		N.1.	0.0	
	min	Nm	0.8	
	max	Nm	1	





		min	lbin	0.8
		max	lbin	0.74
Max number of wires simultaneously co	onnectable		Nr.	2
Conductor section				
AWG/Kcmil				
		max		2
Flexible w/o lu	g conductor section			
		min	mm²	1.5
		max	mm²	35
Flexible c/w lu	g conductor section			
		min	mm²	1.5
		max	mm²	35
Power terminal protection according to	IEC/EN 60529			IP20 front
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail
				35mm
Weight			g	1240
Operations				
Mechanical life			cycles	15000000
Electrical life			cycles	1500000
Safety related data				
Performance level B10d according to I	EN/ISO 13489-1			
		rated load	cycles	1500000
		mechanical load	cycles	15000000
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 50/60Hz			V	400
AC operating voltage				
of 50/60Hz coi	l powered at 50Hz			
	pick-up			
		min	%Us	80
			0/11	
		max	%Us	110
	drop-out			
	drop-out	max min	%Us	20
of 50/60Hz coi	l powered at 60Hz	min	%Us	20
of 50/60Hz coi		min max	%Us %Us	20 55
of 50/60Hz coi	l powered at 60Hz	min max min	%Us %Us %Us	20 55 85
of 50/60Hz coi	l powered at 60Hz pick-up	min max	%Us %Us	20 55
of 50/60Hz coi	l powered at 60Hz	min max min max	%Us %Us %Us %Us	20 55 85 110
of 50/60Hz coi	l powered at 60Hz pick-up	min max min max min	%Us %Us %Us %Us %Us	20 55 85 110 40
	l powered at 60Hz pick-up	min max min max	%Us %Us %Us %Us	20 55 85 110
AC average coil consumption at 20°C	Il powered at 60Hz pick-up drop-out	min max min max min	%Us %Us %Us %Us %Us	20 55 85 110 40
AC average coil consumption at 20°C	l powered at 60Hz pick-up	min max min max min max	%Us %Us %Us %Us %Us %Us	20 55 85 110 40 55
AC average coil consumption at 20°C	Il powered at 60Hz pick-up drop-out	min max min max min max in-rush	%Us %Us %Us %Us %Us %Us	20 55 85 110 40 55
AC average coil consumption at 20°C of 50/60Hz coi	drop-out	min max min max min max	%Us %Us %Us %Us %Us %Us	20 55 85 110 40 55
AC average coil consumption at 20°C of 50/60Hz coi	Il powered at 60Hz pick-up drop-out	min max min max min max in-rush holding	%Us %Us %Us %Us %Us %Us VA	20 55 85 110 40 55
AC average coil consumption at 20°C of 50/60Hz coi	drop-out	min max min max min max in-rush holding in-rush	%Us %Us %Us %Us %Us %Us VA	20 55 85 110 40 55 210 15
AC average coil consumption at 20°C of 50/60Hz coi	Il powered at 60Hz pick-up drop-out Il powered at 50Hz Il powered at 60Hz	min max min max min max in-rush holding	%Us %Us %Us %Us %Us %Us VA	20 55 85 110 40 55
AC average coil consumption at 20°C of 50/60Hz coi	drop-out	min max min max min max in-rush holding in-rush	%Us %Us %Us %Us %Us %Us VA	20 55 85 110 40 55 210 15





		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				
	in AC			
	Closing NO	ma in		40
		min max	ms ms	12 28
	Opening NO	Παλ	1113	20
	Opening NO	min	ms	8
		max	ms	22
	in DC	THOX:		
	Closing NO			
	3 - 3	min	ms	40
		max	ms	85
	Opening NO			
		min	ms	20
		max	ms	55
UL technical data				
Rated operational volta			V	600
Full-load current (FLA)	for three-phase AC motor			
		at 480V	Α	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	000/0001/	LID	4.0
		200/208V 220/230V	HP	10
		460/480V	HP HP	15 30
		575/600V	HP	30
General USE		313/000V		
Ochciai OOL	Contactor			
	Contactor	AC current	Α	70
Short-circuit protection	fuse. 600V	7.0 odiToTit	- / \	. •
2 S San procession	High fault			
	G	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		<u> </u>	
		min	°C	-50
	01	max	°C	70
	Storage temperature		°C	60
		min	°C	-60
		max	U	80

ENERGY AND AUTOMATION

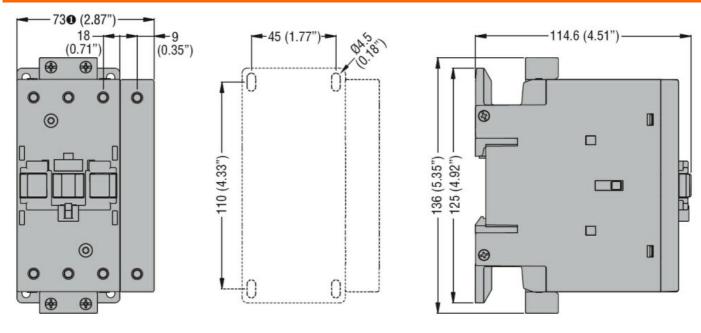
Max altitude

m 3000

Resistance & Protection
Pollution degree

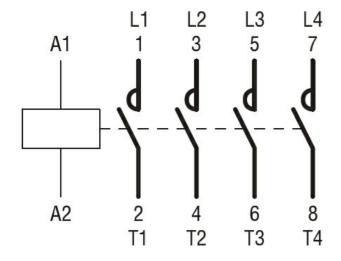
3

Dimensions



BF80T2 82mm/3.23"

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

cULus

ETIM classification



BF40T4A400

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 70A, AC COIL 50/60HZ, 400VAC

ETIM 8.0

EC000066 -Power contactor, AC switching