BF40T4A230



FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 70A, AC COIL 50/60HZ, 230VAC



Product designation			Power contactor
Product type designation			BF40
Contact characteristics			
Number of poles		nr.	4
Rated insulation voltage Ui IEC/EN		V	1000
		kV	8
Rated impulse withstand voltage Uimp		KV	0
Operational frequency			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		Α	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)	A	24
Rated operational power AC-1 (T≤40°C)			
	230V	kW	26
	400V	kW	46
	400V 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	А	-
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
	≤24V	А	48
	48V	А	48
	75V	А	45
	110V	А	42
	220V	А	5
IEC max current le in DC1 with L/R \leq 1ms with 3 poles in series			•
	≤24V	А	48
	48V	A	48
	48V 75V		48
		A	
	110V	A	44
	220V	A	56
IEC max current le in DC1 with $L/R \le 1$ ms 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 \leq 15ms with 1 poles in series	-0.01	•	07
	≤24V	A	27
	48V	A	23
	75V	A	19
	110V	A	3
	220V	A	_
IEC max current le in DC3-DC5 with L/R \leq 15ms with 2 poles in series			
	≤24V	А	32
	48V	А	30
	75V	А	27
	110V	А	22
	220V	А	5
IEC max current le in DC3-DC5 with $L/R \le 15$ ms 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 ≤ 15ms with 4 poles in series			
	≤24V	А	_
	48V	A	_
	75V	A	_
	110V	A	_
	220V	A	40
Short time allowable aurrent for 10a (IEC/EN60047.1)	2200	A	40
Short-time allowable current for 10s (IEC/EN60947-1)		A	400
Protection fuse		•	400
	gG (IEC)	A	100
	aM (IEC)	A	50
Making capacity (RMS value)		Α	400
Breaking capacity at voltage			
	440V	A	320
	500V	А	265
	690V	Α	256
Resistance per pole (average value)		mΩ	0.8
Power dissipation per pole (average value)			
	lth	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	max		2.00
	min	Nm	0.8
	max	Nm	1
	min	lbft	0.8
Max number of wires simultaneously connectable	max	lbft pr	0.74
Max number of wires simultaneously connectable		nr.	2
Conductor section			
Flexible w/o lug conductor section		-	
	min	mm²	1.5
	max	mm²	35
Flexible c/w lug conductor section	max	mm²	35

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	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
Fixing			35mm
Weight		g	1240
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
	mechanical load	cvcles	15000000

	mechanical load	cycles	15000000
Mirror contats according to IEC/EN 609474-4-1			yes
EMC compatibility			yes
AC coil operating			
Rated AC voltage at 50/60Hz		V	230
AC operating voltage			
of 50/60Hz coil powered at 50Hz	<u>.</u>		
pick-up			
	max	%Us	110
drop-out			
	min	%Us	20
	max	%Us	55
of 50/60Hz coil powered at 60Hz	<u>.</u>		
pick-up			
	min	%Us	85
	max	%Us	110
drop-out			
	min	%Us	40
	max	%Us	55
AC operating voltage at 20°C			
of 50/60Hz coil powered at 50Hz	1		
	in-rush	VA	210
	holding	VA	15
of 50/60Hz coil powered at 60Hz	<u>.</u>		

	in-rush	VA	195		
	holding	VA	13		
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					
Average time for Us control					
in AC					
Closing NO					
	min	ms	12		

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max

ms

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ENERGY AND AUTOMATION

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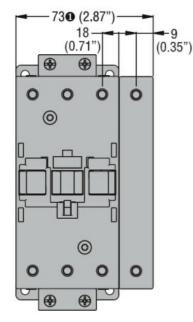
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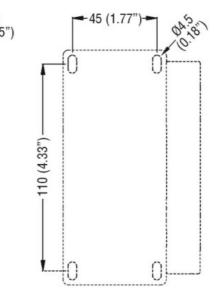
	Opening NO			
		min	ms	8
		max	ms	22
	in DC			
	Closing NO			
		min	ms	40
		max	ms	85
	Opening NO			
		min	ms	20
		max	ms	55
UL technical data				
Full-load current (FL	A) for three-phase AC motor			
		at 480V	А	40
		at 600V	А	32
Yielded mechanical	performance			
	for single-phase AC motor			
		110/120V	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	А	70
Ambient conditions				
Temperature				
P	Operating temperature			
		min	°C	-50
		max	°Č	70
	Storage temperature		•	-
		min	°C	-60
		max	°Č	80
Max altitude			 	3000
Resistance & Protect	ction			
Pollution degree				3
Dimensions				5
Dimensions				

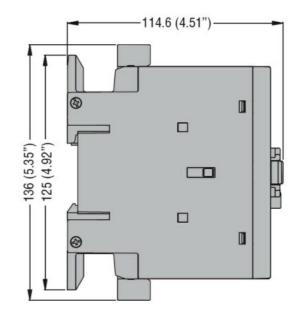
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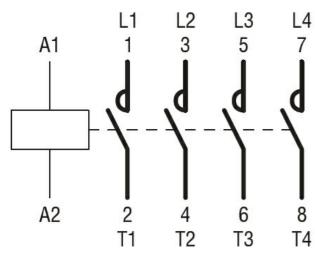






• BF80T2 82mm/3.23"

Wiring diagrams



Certifications and compliance

Compliance		
-	CSA C22.2 n° 60947-1	
	CSA C22.2 n° 60947-4-1	
	IEC/EN 60947-1	
	IEC/EN 60947-4-1	
	UL 60947-1	
	UL 60947-4-1	
Certificates		
	CCC	
	cULus	
ETIM classification	on	
ETIM 8.0		EC000066 - Power contactor, AC switching

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