

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



			10 10 10
Product designation			Power contactor
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
	75V	Α	48





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	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	2201	- , ,	
TEO THAN GUITOR TO IT DOO DOO WILL ETY = TOTAL WILL O POICS III SCHOO	≤24V	Α	40
	48V	A	40
	75V	A	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		<u>JZ</u>
120 max current le in 200-200 with 2/10 13 min 4 poles in series	≤24V	Α	
	48V	A	_ _
	75V	A	_
	110V	A	_ _
	220V	A	40
Short-time allowable current for 10s (IEC/EN60947-1)	220 V		400
			
Protection fuse	gG (IEC)	Α	100
	aM (IEC)	A	50
Making consoity (PMC value)	aivi (IEC)	A	400
Making capacity (RMS value)		A	400
Breaking capacity at voltage	4401/	٨	220
	440V 500V	A	320
		A	265
Posietones per pole (everese velve)	690V	A	256
Resistance per pole (average value)		mΩ	0.8
Power dissipation per pole (average value)	1.1	147	0.0
	Ith	W	3.9
The transfer of the transfer of	AC-3	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



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		min	Ibin	0.8
		max	lbin	0.74
Max number of wires s	imultaneously connectable		Nr.	2
Conductor section	•			
	AWG/Kcmil			
	/W G/Rollin	max		2
	Flexible w/o lug conductor section	IIIdA		
	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°
		ano mable		Screw / DIN rail
Fixing				35mm
Weight			<u> </u>	1240
Conductor section			g	1470
Conductor section	ANAIC (I consil consideration of the			
	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	<u>.g .c .= e, = </u>			yes
AC coil operating				ycs
	011-		1/	575
Rated AC voltage at 60	JПZ		V	575
AC operating voltage	60011			
	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			_
Ü	of 60Hz coil powered at 60Hz			
	1. 10. 12 to. ponorod at 001 12	in-rush	VA	210
		holding	VA	15
Discipation at halding	<20°C E0∐-7	Holding	W	5
Dissipation at holding:	≥2U U 0U∏Z		۷V	ວ
Max cycles frequency			1 "	0000
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us co	ontrol			
	in AC			

Closing NO

in AC



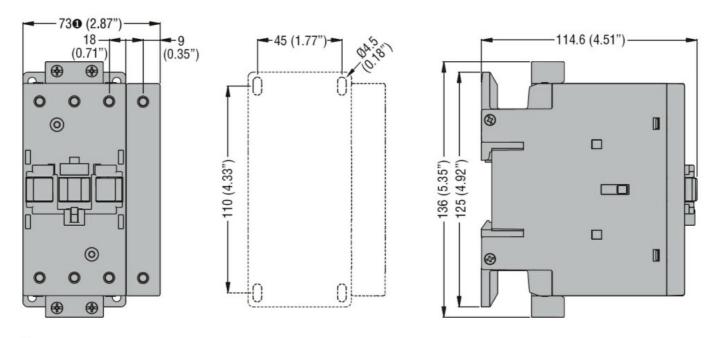


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		min	ms	12
		max	ms	28
	Opening NO			
		min	ms	8
		max	ms	22
	in DC			
	Closing NO			
		min	ms	40
		max	ms	85
	Opening NO			
		min	ms	20
		max	ms	55
UL technical data				
Full-load current (FLA)	for three-phase AC motor			
		at 480V	Α	40
		at 600V	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	Α	150
		Fuse class		RK5
Ambient conditions				
Temperature				
	Operating temperature			
	1 3 3 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	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	<u></u>			
Difficitions -				

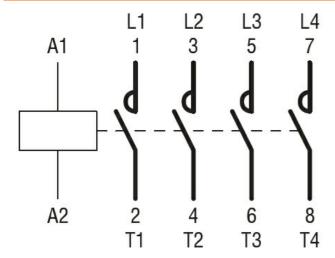
ENERGY AND AUTOMATION

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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/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