

Product designation

Product type designation

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 100A, AC COIL 50/60HZ,



Power contactor

BF65

≤24V

48V

75V

110V

220V

≤24V

48V

75V

110V

220V

≤24V

48V

75V

Α

Α

Α

Α

Α

Α

Α

Α

Α

Α

Α

Α

50

50

50

8

70

70

70

60

70

70

70

9

Contact characteristics 4 Number of poles Nr. Rated insulation voltage Ui IEC/EN ٧ 1000 Rated impulse withstand voltage Uimp k۷ 8 Operational frequency min Η 25 max Hz 400 IEC Conventional free air thermal current Ith 100 Α Operational current le AC-1 (≤40°C) 100 Α AC-1 (≤55°C) Α 80 AC-1 (≤70°C) 70 Α AC-3 (≤440V ≤55°C) Α 65 AC-4 (400V) 31 Rated operational current AC-3 (T≤55°C) 230V Α 65 400V Α 65 415V Α 65 440V Α 65 500V Α 53 690V Α 47 1000V 25 Α Rated operational power AC-1 (T≤40°C) kW 230V 38 400V kW 65 500V kW 82 690V kW 114

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

IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series

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

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





FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 100A, AC COIL 50/60HZ,

	110V	Α	60
	220V	Α	90
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	Α	70
	48V	Α	70
	75V	Α	70
	110V	Α	70
	220V	Α	110
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	Α	35
	48V	Α	25
	75V	Α	25
	110V	Α	3
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	Α	45
	48V	Α	40
	75V	Α	40
	110V	Α	30
	220V	Α	5
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	≤24V	Α	55
	48V	Α	50
	75V	Α	50
	110V	Α	35
	220V	Α	52
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	Α	60
	48V	Α	60
	75V	Α	60
	110V	Α	50
	220V	Α	65
Short-time allowable current for 10s (IEC/EN60947-1)		Α	640
Protection fuse			
	gG (IEC)	Α	125
	aM (IEC)	Α	80
Making capacity (RMS value)		Α	650
Breaking capacity at voltage			
	440V	Α	520
	500V	Α	425
	690V	Α	376
Resistance per pole (average value)		mΩ	0.8
Power dissipation per pole (average value)			
	Ith	W	8
	AC-3	W	3.4
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	0.8
	max	Nm	1



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		min	lbin	0.8
		max	lbin	0.74
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		2
	Flexible w/o lug conductor section		2	4.5
		min	mm²	1.5
	Florible of the large conductor agetics	max	mm²	35
	Flexible c/w lug conductor section	min	mm²	1.5
		min max	mm² mm²	35
Power terminal protec	ction according to IEC/EN 60529	Παλ	111111	IP20 front
Mechanical features	ction according to IEC/EN 00329			IF 20 HOIR
Operating position				
Operating position		normal		Vertical plan
		allowable		±30°
		anowabio		Screw / DIN rail
Fixing				35mm
Weight			g	1240
Conductor section				
	AWG/kcmil conductor section			
		max		2
Operations				
Mechanical life			cycles	15000000
Electrical life			cycles	1400000
Safety related data				
Performance level B1	0d according to EN/ISO 13489-1			
		rated load	cycles	1400000
		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	50/60Hz		V	24
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 50/601 = acil novement at 601 =	max	%Us	55
	of 50/60Hz coil powered at 60Hz			
	pick-up	min	%Us	85
		min	%Us	110
	drop-out	max	/0US	110
	αιορ-οαι	min	%Us	40
		max	%Us	55
AC average coil cons	umption at 20°C	IIIdA	/003	
, to average con const	of 50/60Hz coil powered at 50Hz			
	or our our iz con powered at our iz	in-rush	VA	210
		holding	VA	15
		notaling	٧/١	





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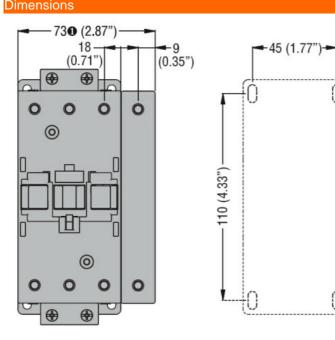
	of 50/60Hz coil power	ered at 60Hz			
	or 30/00112 con powe	ared at our iz	in-rush	VA	195
			holding	VA	13
	of 60Hz coil powered	1 at 60Hz	Holding	V/\	10
	or our iz con powered	i at ouriz	in-rush	VA	210
			holding	VA VA	15
Discipation at holding	<20°C E0∐-		noluling	W	5
Dissipation at holding	≥20 C 30HZ			VV	5
Max cycles frequency				ovoleo/b	2600
Mechanical operation				cycles/h	3600
Operating times	ontrol				
Average time for Us co					
	in AC	Ola aira a NO			
		Closing NO			40
			min	ms	12
			max	ms	28
		Opening NO			
			min	ms	8
			max	ms	22
	in DC	a.			
		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	65
-			at 600V	Α	62
Yielded mechanical pe	erformance				
	for three-phase AC r	notor			
			200/208V	HP	20
			220/230V	HP	25
			460/480V	HP	50
			575/600V	HP	60
General USE					
	Contactor				
			AC current	Α	100
Short-circuit protection	fuse, 600V				_
•	High fault				
	•		Short circuit current	kA	100
			Fuse rating	Α	200
			Fuse class		J
	Standard fault				
			Short circuit current	kA	10
			Fuse rating	A	200
			Fuse class	-	RK5
Ambient conditions			. 200 0.000		
Temperature					
. 1	Operating temperatu	re			
	Sporading temperatu		min	°C	-50
			max	°C	70
	Storage temperature		IIIdA		
	Storage temperature		min	°C	-60
			111111		

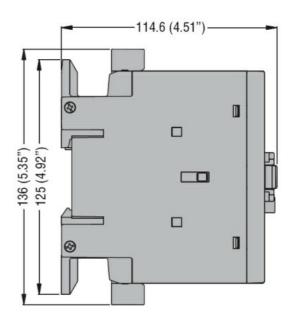


ENERGY AND AUTOMATION

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 100A, AC COIL 50/60HZ,

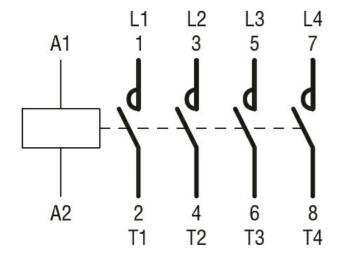
	max	°C	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3
Dimensions			





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

BF65T4A024

CCC

cULus

ETIM classification



BF65T4A024

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 100A, AC COIL 50/60HZ,

ETIM 8.0

EC000066 -Power contactor, AC switching