

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



Product designation Power contactor Product type designation **BF65** Contact characteristics Nr. 4 Number of poles Rated insulation voltage Ui IEC/EN ٧ 1000 k√ Rated impulse withstand voltage Uimp 8 Operational frequency min Ηъ 25 max Hz 400 IEC Conventional free air thermal current Ith 100 Α Operational current le AC-1 (≤40°C) Α 100 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 65 Α 415V Α 65 440V Α 65 500V Α 53 690V Α 47 1000V 25 Α Rated operational power AC-1 (T≤40°C) 230V kW 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 ≤24V Α 50 48V Α 50 75V 50 Α 110V Α 8 220V Α IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V 70 Α 70 48V Α 70 75V Α 110V Α 60 220V 9 IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V Α 70 48V Α 70 75V 70 Α



# 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
150 N. 11 1 DOO DOG 11 1/D 445 11 4 1 1 1 1	220V	Α	110
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series	10.43.7		0.5
	≤24V	A	35
	48V	A	25
	75V	A	25
	110V	A	3
IFO	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	<04)/	۸	4.5
	≤24V	A	45
	48V	A	40
	75V 110V	A A	40 30
	220V	A	5 5
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	220 V	A	ວ
TEC max current le in DC3-DC3 with L/K \( \) 13ms with 3 poles in series	≤24V	۸	55
	≥24 V 48 V	A A	50
	75V	A	50
	110V	A	35
	220V	A	52
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	220 V	- / \	02
TEO HIGA GUITORIC TO HI DOO DOO WILL E/TY = TOING WILL 4 POICS HI SOINGS	≤24V	Α	60
	48V	A	60
	75V	A	60
	110V	Α	50
	220V	Α	65
Short-time allowable current for 10s (IEC/EN60947-1)	<del>-</del>	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)			
· · · · · · · · · · · · · · · · · · ·	lth	W	8
	AC-3	W	3.4
Tightening torque for terminals			
	min	Nm	4
	max	Nm	5
	min	Ibin	2.95
	max	Ibin	3.69
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1



BF65T4A048

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

			0.0
	min	lbin Ibin	0.8
Max number of wires simultaneously connectable	max	Nr.	0.74
Conductor section		INI.	
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
Deventancia di antestica accordina to IEO/EN COEO	max	mm²	35
Power terminal protection according to IEC/EN 60529  Mechanical features			IP20 front
Operating position			
Operating position	normal		Vertical plan
	allowable		±30°
Fig			Screw / DIN rail
Fixing			35mm
Weight		g	1240
Conductor section			
AWG/kcmil conductor section			
	max		2
Operations			4.500000
Mechanical life		cycles	15000000
Electrical life Safety related data		cycles	1400000
Performance level B10d according to EN/ISO 13489-1			
r enormance level brod according to EN/100 10403-1	rated load	cycles	1400000
	mechanical load	cycles	1500000
Mirror contats according to IEC/EN 609474-4-1		-,	yes
EMC compatibility			yes
AC coil operating			·
Rated AC voltage at 50/60Hz			
- tanto are to reconsiger and copy contact		V	48
AC operating voltage		V	48
AC operating voltage of 50/60Hz coil powered at 50Hz		V	48
AC operating voltage			
AC operating voltage of 50/60Hz coil powered at 50Hz	min	%Us	80
AC operating voltage of 50/60Hz coil powered at 50Hz pick-up	min max		
AC operating voltage of 50/60Hz coil powered at 50Hz	max	%Us %Us	80 110
AC operating voltage  of 50/60Hz coil powered at 50Hz  pick-up	max min	%Us %Us %Us	80 110 20
AC operating voltage  of 50/60Hz coil powered at 50Hz pick-up  drop-out	max	%Us %Us	80 110
AC operating voltage  of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz	max min	%Us %Us %Us	80 110 20
AC operating voltage  of 50/60Hz coil powered at 50Hz pick-up  drop-out	max min	%Us %Us %Us	80 110 20
AC operating voltage  of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz	max min max	%Us %Us %Us %Us	80 110 20 55
AC operating voltage  of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz	max min max min	%Us %Us %Us %Us %Us	80 110 20 55 85 110
AC operating voltage  of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz pick-up	max min max min	%Us %Us %Us %Us %Us	80 110 20 55 85 110 40
AC operating voltage  of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz pick-up  drop-out	max min max min max	%Us %Us %Us %Us %Us	80 110 20 55 85 110
AC operating voltage  of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz pick-up  drop-out  AC average coil consumption at 20°C	max min max min max min max min	%Us %Us %Us %Us %Us	80 110 20 55 85 110 40
AC operating voltage  of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz pick-up  drop-out	max min max min max min max min max	%Us %Us %Us %Us %Us %Us %Us	80 110 20 55 85 110 40 55
AC operating voltage  of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz pick-up  drop-out  AC average coil consumption at 20°C	max min max min max min max min	%Us %Us %Us %Us %Us	80 110 20 55 85 110 40





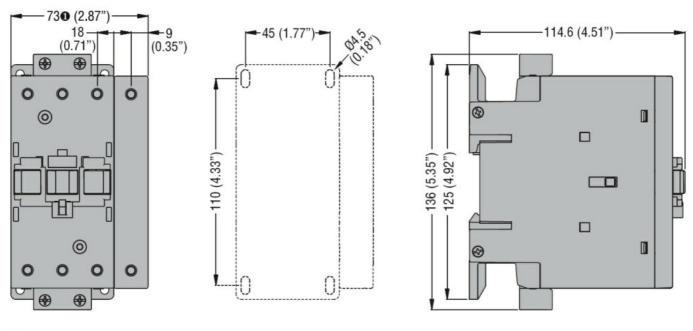
## FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 100A, AC COIL 50/60HZ,

	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
	<del></del>		max	ms	22
	in DC	<b>a.</b>			
		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** 

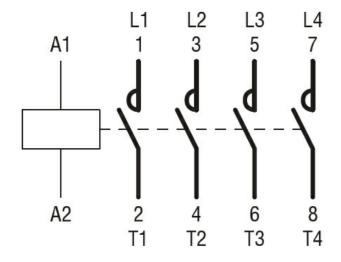
## FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 100A, AC COIL 50/60HZ,

	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

CCC

cULus

#### ETIM classification



### BF65T4A048

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

ETIM 8.0

EC000066 -Power contactor, AC switching