

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 100A, AC COIL 60HZ, 220VAC



Product designation Power contactor Product type designation **BF65**

Product type designation			BF65
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	100
Operational current le			
	AC-1 (≤40°C)	Α	100
	AC-1 (≤55°C)	Α	80
	AC-1 (≤70°C)	Α	70
	AC-3 (≤440V ≤55°C)	Α	65
	AC-4 (400V)	Α	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	Α	25
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	Α	50
	110V	Α	8
	220V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
	≤24V	Α	70
	48V	Α	70
	75V	Α	70
	110V	Α	60
	220V	Α	9
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
	≤24V	Α	70
	48V	Α	70
	75V	Α	70



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	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 DO3-DO3 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	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)			
· · · · · · · · · · · · · · · · · · ·	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



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min	lla la	0.0
may	lbin Ibin	0.8 0.74
Max number of wires simultaneously connectable	Nr.	2
Conductor section	INL	2
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
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
Conductor section		
AWG/kcmil conductor section		
max		2
Operations	a alaa	4500000
Mechanical life	cycles	15000000
Electrical life	cycles	1400000
Safety related data		
Performance level B10d according to EN/ISO 13489-1 rated load	ovoloo	1400000
mechanical load	cycles cycles	1500000
Mirror contats according to IEC/EN 609474-4-1	Cycles	
EMC compatibility		yes
· · ·		усз
AC coil operating		
AC coil operating Rated AC voltage at 60Hz	V	220
Rated AC voltage at 60Hz	V	220
Rated AC voltage at 60Hz AC operating voltage	V	220
Rated AC voltage at 60Hz AC operating voltage of 60Hz coil powered at 60Hz	V	220
Rated AC voltage at 60Hz AC operating voltage	V %Us	220
Rated AC voltage at 60Hz AC operating voltage of 60Hz coil powered at 60Hz pick-up	%Us	
Rated AC voltage at 60Hz AC operating voltage of 60Hz coil powered at 60Hz pick-up min	%Us	80
Rated AC voltage at 60Hz AC operating voltage of 60Hz coil powered at 60Hz pick-up min max	%Us	80
Rated AC voltage at 60Hz AC operating voltage of 60Hz coil powered at 60Hz pick-up min max drop-out min max	%Us %Us	80 110
Rated AC voltage at 60Hz AC operating voltage of 60Hz coil powered at 60Hz pick-up min max drop-out	%Us %Us %Us	80 110 20
Rated AC voltage at 60Hz AC operating voltage of 60Hz coil powered at 60Hz pick-up min max drop-out min max	%Us %Us %Us %Us	80 110 20 55
Rated AC voltage at 60Hz AC operating voltage of 60Hz coil powered at 60Hz pick-up min max drop-out min max AC average coil consumption at 20°C of 60Hz coil powered at 60Hz in-rush	%Us %Us %Us	80 110 20 55
Rated AC voltage at 60Hz AC operating voltage of 60Hz coil powered at 60Hz pick-up min max drop-out min max AC average coil consumption at 20°C of 60Hz coil powered at 60Hz in-rush holding	%Us %Us %Us %Us	80 110 20 55 210 15
Rated AC voltage at 60Hz AC operating voltage of 60Hz coil powered at 60Hz pick-up min max drop-out min max AC average coil consumption at 20°C of 60Hz coil powered at 60Hz in-rush holding Dissipation at holding ≤20°C 50Hz	%Us %Us %Us %Us	80 110 20 55
Rated AC voltage at 60Hz AC operating voltage of 60Hz coil powered at 60Hz pick-up min max drop-out min max AC average coil consumption at 20°C of 60Hz coil powered at 60Hz in-rush holding Dissipation at holding ≤20°C 50Hz Max cycles frequency	%Us %Us %Us %Us VA VA	80 110 20 55 210 15
Rated AC voltage at 60Hz AC operating voltage of 60Hz coil powered at 60Hz pick-up min max drop-out AC average coil consumption at 20°C of 60Hz coil powered at 60Hz in-rush holding Dissipation at holding ≤20°C 50Hz Max cycles frequency Mechanical operation	%Us %Us %Us %Us VA	80 110 20 55 210 15
Rated AC voltage at 60Hz AC operating voltage of 60Hz coil powered at 60Hz pick-up min max drop-out AC average coil consumption at 20°C of 60Hz coil powered at 60Hz in-rush holding Dissipation at holding ≤20°C 50Hz Max cycles frequency Mechanical operation Operating times	%Us %Us %Us %Us VA VA	80 110 20 55 210 15
Rated AC voltage at 60Hz AC operating voltage of 60Hz coil powered at 60Hz pick-up min max drop-out AC average coil consumption at 20°C of 60Hz coil powered at 60Hz in-rush holding Dissipation at holding ≤20°C 50Hz Max cycles frequency Mechanical operation	%Us %Us %Us %Us VA VA	80 110 20 55 210 15

Closing NO



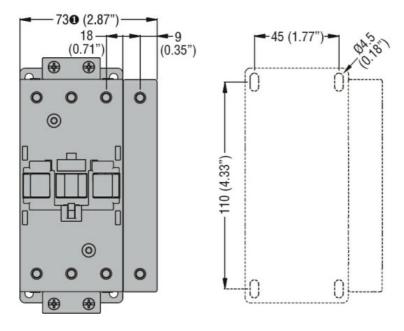


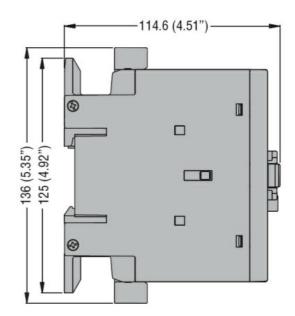
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		min	ms	12
		max	ms	28
	Opening NO			-
	o p =9	min	ms	8
		max	ms	22
	in DC	· · · · · · · · · · · · · · · · · · ·		
	Closing NO			
	Greening 110	min	ms	40
		max	ms	85
	Opening NO	THOX:		
	Sporting 113	min	ms	20
		max	ms	55
UL technical data		Пах	1113	00
	for three-phase AC motor			
r dii load carrent (i EA)	nor three phase Ao motor	at 480V	Α	65
		at 600V	A	62
Yielded mechanical pe	orformanco	at 000 v		02
rielueu mechanicai pe	for three-phase AC motor			
	for tiffee-priase AC motor	200/208V	HP	20
		220/230V	HP	25
		460/480V	HP	50
		575/600V	HP	60
General USE		373/0007	ПР	60
General USE	Contactor			
	Contactor	AC ourrent	٨	100
Chart aircuit protection	tuno 600V	AC current	A	100
Short-circuit protection				
	High fault	Oh ant ainsoit accuract	1. 0	400
		Short circuit current	kA	100
		Fuse rating	Α	200
	Oten In I for It	Fuse class		J
	Standard fault	Ohant almost account	I. A	10
		Short circuit current	kA	10
		Fuse rating	Α	200
Ambient conditions		Fuse class		RK5
Ambient conditions				
Temperature	On anoting to me a section			
	Operating temperature	*-	00	5 0
		min	°C	-50 -70
	<u> </u>	max	°C	70
	Storage temperature		0.0	00
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protection	on			
Pollution degree				3
Dimensions				

ENERGY AND AUTOMATION

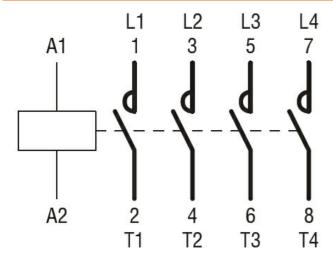
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● BF80T2 82mm/3.23"

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