



Product designation Product type designation			Power contactor BF65
Contact characteristics			Broo
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		А	100
Operational current le			
	AC-1 (≤40°C)	А	100
	AC-1 (≤55°C)	А	80
	AC-1 (≤70°C)	А	70
	AC-3 (≤440V ≤55°C)	A	65
	AC-4 (400V)	A	31
Rated operational current AC-3 (T≤55°C)			
	230V	A	65
	400V	A	65
	415V	A	65
	440V	A	65
	500V	A	53
	690V	A	47
Dated energtianal neuror AC 1 (T<10°C)	1000V	A	25
Rated operational power AC-1 (T≤40°C)	2201/		20
	230V 400V	kW kW	38
	400V 500V	kW	65 82
	690V	kW	114
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series	030 V	K V V	114
	≤24V	А	50
	48V	A	50
	46V 75V	A	50
	110V	A	8
	220V	A	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
	≤24V	А	70
	48V	А	70
	75V	А	70
	110V	А	60
	220V	А	9
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			
	≤24V	А	70
	48V	А	70
	75V	А	70



BF65T4A23060 FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 100A, AC COIL 60HZ, 230VAC

	110V	А	60
	220V	А	90
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	А	70
	48V	А	70
	75V	А	70
	110V	А	70
	220V	А	110
IEC max current le in DC3-DC5 with L/R \leq 15ms with 1 poles in series			
	≤24V	А	35
	48V	А	25
	75V	А	25
	110V	А	3
	220V	А	-
IEC max current le in DC3-DC5 with L/R \leq 15ms with 2 poles in series			
	≤24V	А	45
	48V	А	40
	75V	А	40
	110V	А	30
	220V	A	5
IEC max current le in DC3-DC5 with L/R \leq 15ms with 3 poles in series			
	≤24V	А	55
	48V	А	50
	75V	A	50
	110V	A	35
	220V	A	52
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 4 poles in series			
	≤24V	A	60
	48V	A	60
	75V	A	60
	110V	A	50
	220V	A	65
Short-time allowable current for 10s (IEC/EN60947-1)		Α	640
Protection fuse			405
	gG (IEC)	A	125
Malian and aits (DMO status)	aM (IEC)	<u>A</u>	80
Making capacity (RMS value)		А	650
Breaking capacity at voltage	44017	^	500
	440V	A	520
	500V	A	425
	690V	A	376
Resistance per pole (average value)		mΩ	0.8
Power dissipation per pole (average value)	1.1	147	0
	lth	W	8
	AC-3	W	3.4
Tightening torque for terminals		N I	4
	min	Nm	4
	max	Nm	5
	min	Ibin Ibin	2.95
	max	Ibin	3.69
Tightening torque for coil terminal		N I	0.0
	min	Nm	0.8
	max	Nm	1



BF65T4A23060 FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 100A, AC COIL 60HZ, 230VAC

		min	lbin	0.8
		max	lbin	0.74
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			0
		max		2
	Flexible w/o lug conductor section	min	mm2	1 5
		min	mm² mm²	1.5 35
	Elevible a/w lug conductor costion	max	11111-	35
	Flexible c/w lug conductor section	min	mm²	1.5
		max	mm²	35
Power terminal prote	ction according to IEC/EN 60529	Παλ		IP20 front
Mechanical features				11 20 11011
Operating position				
		normal		Vertical plan
		allowable		±30°
				Screw / DIN rai
Fixing				35mm
Weight			g	1240
Conductor section			<u> </u>	
	AWG/kcmil conductor section			
		max		2
Operations				
Mechanical life			cycles	15000000
Electrical life			cycles	1400000
Safety related data				
Performance level B	10d according to EN/ISO 13489-1			
		rated load	cycles	1400000
		mechanical load	cycles	15000000
Mirror contats accord	ling to IEC/EN 609474-4-1	mechanical load	cycles	15000000 yes
Mirror contats accord EMC compatibility	ling to IEC/EN 609474-4-1	mechanical load	cycles	
	ling to IEC/EN 609474-4-1	mechanical load	cycles	yes
EMC compatibility		mechanical load	cycles V	yes
EMC compatibility AC coil operating	60Hz	mechanical load		yes yes
EMC compatibility AC coil operating Rated AC voltage at (60Hz	mechanical load		yes yes
EMC compatibility AC coil operating Rated AC voltage at (60Hz	mechanical load	V	yes yes 230
EMC compatibility AC coil operating Rated AC voltage at (60Hz of 60Hz coil powered at 60Hz	mechanical load	V %Us	yes yes 230 80
EMC compatibility AC coil operating Rated AC voltage at (60Hz of 60Hz coil powered at 60Hz pick-up		V	yes yes 230
EMC compatibility AC coil operating Rated AC voltage at (60Hz of 60Hz coil powered at 60Hz	min	V %Us %Us	yes yes 230 80 110
EMC compatibility AC coil operating Rated AC voltage at (60Hz of 60Hz coil powered at 60Hz pick-up	min	V %Us %Us %Us	yes yes 230 80 110 20
EMC compatibility AC coil operating Rated AC voltage at 0 AC operating voltage	60Hz of 60Hz coil powered at 60Hz pick-up drop-out	min max	V %Us %Us	yes yes 230 80 110
EMC compatibility AC coil operating Rated AC voltage at (60Hz of 60Hz coil powered at 60Hz pick-up drop-out	min max min	V %Us %Us %Us	yes yes 230 80 110 20
EMC compatibility AC coil operating Rated AC voltage at 0 AC operating voltage	60Hz of 60Hz coil powered at 60Hz pick-up drop-out	min max min max	V %Us %Us %Us %Us	yes yes 230 80 110 20 55
EMC compatibility AC coil operating Rated AC voltage at 0 AC operating voltage	60Hz of 60Hz coil powered at 60Hz pick-up drop-out	min max min max in-rush	V %Us %Us %Us %Us VA	yes yes 230 80 110 20 55 210
EMC compatibility AC coil operating Rated AC voltage at (AC operating voltage	60Hz of 60Hz coil powered at 60Hz pick-up drop-out sumption at 20°C of 60Hz coil powered at 60Hz	min max min max	V %Us %Us %Us %Us VA VA	yes yes 230 80 110 20 55 210 15
EMC compatibility AC coil operating Rated AC voltage at (AC operating voltage AC average coil cons Dissipation at holding	60Hz of 60Hz coil powered at 60Hz pick-up drop-out sumption at 20°C of 60Hz coil powered at 60Hz	min max min max in-rush	V %Us %Us %Us %Us VA	yes yes 230 80 110 20 55 210
EMC compatibility AC coil operating Rated AC voltage at (AC operating voltage AC average coil cons Dissipation at holding Max cycles frequency	60Hz of 60Hz coil powered at 60Hz pick-up drop-out sumption at 20°C of 60Hz coil powered at 60Hz	min max min max in-rush	V %Us %Us %Us %Us %Us VA VA VA W	yes yes 230 80 110 20 55 210 15 5
EMC compatibility AC coil operating Rated AC voltage at 0 AC operating voltage AC average coil cons Dissipation at holding Max cycles frequency	60Hz of 60Hz coil powered at 60Hz pick-up drop-out sumption at 20°C of 60Hz coil powered at 60Hz	min max min max in-rush	V %Us %Us %Us %Us VA VA	yes yes 230 80 110 20 55 210 15 5
EMC compatibility AC coil operating Rated AC voltage at (AC operating voltage AC average coil cons Dissipation at holding Max cycles frequency Mechanical operation Operating times	60Hz of 60Hz coil powered at 60Hz pick-up drop-out sumption at 20°C of 60Hz coil powered at 60Hz g ≤20°C 50Hz	min max min max in-rush	V %Us %Us %Us %Us %Us VA VA VA W	yes yes 230 80 110 20 55 210 15 5
EMC compatibility AC coil operating Rated AC voltage at 0 AC operating voltage AC average coil cons Dissipation at holding Max cycles frequency	60Hz of 60Hz coil powered at 60Hz pick-up drop-out sumption at 20°C of 60Hz coil powered at 60Hz g ≤20°C 50Hz	min max min max in-rush	V %Us %Us %Us %Us %Us VA VA VA W	yes yes 230 80 110 20 55 210 15 5
EMC compatibility AC coil operating Rated AC voltage at (AC operating voltage AC average coil cons Dissipation at holding Vax cycles frequency Vechanical operation Operating times	60Hz of 60Hz coil powered at 60Hz pick-up drop-out sumption at 20°C of 60Hz coil powered at 60Hz g ≤20°C 50Hz	min max min max in-rush	V %Us %Us %Us %Us %Us VA VA VA W	yes yes 230 80 110 20 55 210 15 5

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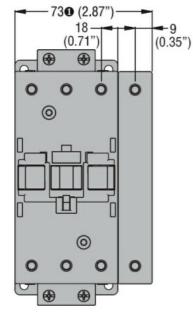
FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 100A, AC COIL 60HZ,

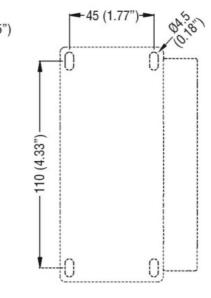
230VAC

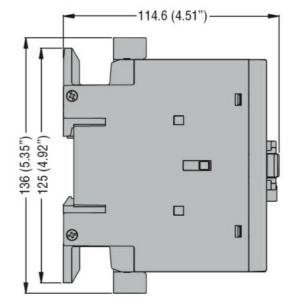
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max ms 22 in DC Closing NO min ms 40 Opening NO min ms 85 Opening NO min ms 55 UL technical data rs 55 Full-load current (FLA) for three-phase AC motor at 480V A 65 Yielded mechanical performance for three-phase AC motor 200/208V HP 20 220/230V HP 20 220/208V HP 20 220/208V HP 50 57/600V HP 50 General USE Contactor A 100 575/600V HP 60 General USE Contactor A 100 50 50 50 Short-circuit protection fuse, 600V High fault Short circuit current KA 100 Fuse class J Standard fault Short circuit current KA 100 Fuse class J Standard fault Short circuit current KA 100 F			Opening NO	min		0
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at 480V A 65 at 600V A 62 Yielded mechanical performance for three-phase AC motor 200/208V HP 20 220/230V HP 25 460/480V HP 50 General USE Contactor AC current A 100 Short-circuit protection fuse, 600V High fault Short circuit current KA 100 Short-circuit protection fuse, 600V High fault Short circuit current KA 100 Short-circuit protection fuse, 600V High fault Short circuit current KA 100 Fuse class J Standard fault Short circuit current KA 10 Fuse class J Standard fault Short circuit current KA 10 Fuse class RK5 RK5 RK5 Ambient conditions Temperature min °C -50 Temperature min °C -50 -50 Max altitude min °C -60 -60 Max altitude min °C -60 -60						
at 600V A 62 Yielded mechanical performance for three-phase AC motor 200/208V HP 20 220/230V HP 25 460/480V HP 50 200/208V HP 50 575/600V HP 60 General USE Contactor AC current A 100 Short-circuit protection fuse, 600V High fault Short circuit current KA 100 Short-circuit protection fuse, 600V High fault Short circuit current KA 100 Short circuit current KA 100 Fuse class J J Standard fault Short circuit current KA 10 Fuse class KK5 Ambient conditions KK5 KK5 KK5 KK5 Ambient conditions C -50 max °C 70 Storage temperature min °C -50 max °C 70 Storage temperature min °C -60 max °C 80	Full-load current (F	LA) for three-phase A	AC motor			
Yielded mechanical performance for three-phase AC motor 200/208V HP 20 220/230V HP 25 460/480V HP 50 575/600V HP 60 General USE Contactor AC current A 100 Short-circuit protection fuse, 600V High fault Short circuit current KA 100 Standard fault Short circuit current kA 10 Fuse class J Standard fault Short circuit current kA 10 Fuse class J Standard fault Short circuit current kA 10 Fuse class KK5 KK5 Standard fault Short circuit current kA 10 Fuse class RK5 RK5 Standard fault				at 480V	А	65
for three-phase AC motor 200/208V HP 20 220/208V HP 25 220/208V HP 50 220/208V HP 60 General USE Contactor AC current A 100 Short-circuit protection fuse, 600V High fault AC current A 100 Short-circuit protection fuse, 600V High fault Short circuit current kA 100 Short-circuit protection fuse, 600V High fault Short circuit current kA 100 Short-circuit protection fuse, 600V High fault Short circuit current kA 100 Short-circuit protection fuse, 600V High fault Short circuit current kA 100 Standard fault Short circuit current kA 10 KA 10 Fuse class J Standard fault Short circuit current kA 10 Fuse class KA 10 max 70 Storage temperature Min °C 50 Max altitude max <td></td> <td></td> <td></td> <td>at 600V</td> <td>А</td> <td>62</td>				at 600V	А	62
200/208V HP 20 220/230V HP 25 460/480V HP 50 575/600V HP 60 General USE	Yielded mechanica	l performance				
$\begin{array}{c c c c c c c } & 220/230V & HP & 25 \\ & 460/480V & HP & 50 \\ & 575/600V & HP & 60 \end{array}$ General USE $\begin{array}{c c c c c c } & & & & & & & & & & & & & & & & & & &$		for three-phase	AC motor			
$\begin{array}{c c c c c c } & 460/480V & HP & 50 \\ \hline 575/600V & HP & 60 \\ \hline \\ $				200/208V	HP	20
Standard fault Short circuit current Fuse rating Standard fault KA 100 AC current A 100 Short-circuit protection fuse, 600V High fault Short circuit current Fuse rating Standard fault KA 100 Standard fault Short circuit current Fuse class KA 100 Standard fault Short circuit current Fuse class KA 10 Fuse class J Standard fault Short circuit current Fuse class KA A 200 Fuse class RK5 Ambient conditions Temperature RK5 Temperature min °C -50 max Operating temperature min °C -50 max Max altitude min °C 80 Max altitude max °C 80 Max altitude Max altitude min °C				220/230V	HP	25
General USE Contactor AC current A 100 Short-circuit protection fuse, 600V High fault Short circuit current kA 100 Fuse rating A 200 Fuse rating A 200 Fuse class J Standard fault Short circuit current kA 10 Standard fault Short circuit current kA 10 Fuse rating A 200 Fuse class J Standard fault Short circuit current kA 10 Fuse rating A 200 Fuse class RK5 Ambient conditions Temperature RK5 RK5 Temperature Operating temperature min °C -50 Max attitude min °C -60 max °C 80 Max attitude m 3000 Resistance & Protection 3 3				460/480V	HP	50
Contactor AC current A 100 Short-circuit protection fuse, 600V High fault High fault KA 100 Fuse rating A 200 Fuse rating A 200 Fuse rating A 200 Fuse rating A 200 Standard fault Short circuit current KA 10 Fuse rating A 200 Standard fault Short circuit current KA 10 Fuse rating A 200 Fuse class B 200 Fuse rating A 200 Fuse rating A 200 Fuse class RK5 Ambient conditions K Short circuit current KA 10 Fuse class RK5 Ambient conditions K Min °C -50 Fuse class RK5 Ambient conditions K Min °C -50 Fuse class K5 Ambient conditions K Min °C -50 Fuse class K5 Min				575/600V	HP	60
AC currentA100Short-circuit protection fuse, 600V High faultShort circuit current Fuse rating AKA100 200 Fuse classStandard faultShort circuit current Fuse classKA10 A200 Fuse classStandard faultShort circuit current Fuse rating AKA10 AFuse classJStandard faultShort circuit current Fuse rating AKA10 AFuse classRK5Standard faultShort circuit current Fuse rating AKA10 AFuse classRK5Standard faultShort circuit current Fuse classKA10 AFuse classRK5Standard faultShort circuit current Fuse classShort circuit current A200 AAmbient conditionsStorage temperatureImage: Conditional co	General USE					
AC currentA100Short-circuit protection fuse, 600V High faultShort circuit current Fuse rating AKA100 200 Fuse classStandard faultShort circuit current Fuse classKA10 A200 Fuse classStandard faultShort circuit current Fuse rating AKA10 AFuse classJStandard faultShort circuit current Fuse rating AKA10 AFuse classRK5Standard faultShort circuit current Fuse rating AKA10 AFuse classRK5Standard faultShort circuit current Fuse classKA10 AFuse classRK5Standard faultShort circuit current Fuse classShort circuit current A200 AAmbient conditionsStorage temperatureImage: Conditional co		Contactor				
Short-circuit protection fuse, 600V High fault Short circuit current kA 100 Fuse rating A 200 Fuse class J Standard fault Short circuit current kA 10 Standard fault Short circuit current kA 10 Fuse class J Standard fault Short circuit current kA 10 Ambient conditions Temperature RK5 Ambient conditions Temperature min °C -50 Max altitude min °C -60 max °C 80 Max altitude m 3000 Resistance & Protection 3				AC current	А	100
High fault Short circuit current kA 100 Fuse rating A 200 Fuse class J Standard fault Short circuit current kA 10 Fuse rating A 200 Fuse class J Standard fault Short circuit current kA 10 Fuse rating A 200 E Fuse class RK5 E E Ambient conditions T E E Temperature Operating temperature min °C -50 Max altitude min °C -60 E Max altitude m 3000 E E Pollution degree 3 S S S	Short-circuit protec	tion fuse, 600V				
Short circuit currentkA100Fuse ratingA200Fuse classJStandard faultShort circuit currentkA10Fuse ratingA200Fuse ratingA200Fuse classRK5	· ·					
Fuse rating Fuse classA200 JStandard faultShort circuit current Fuse rating Fuse rating AA10 AFuse rating Fuse classA200 Fuse classRK5Ambient conditionsRK5TemperatureOperating temperaturemin max°C-50 rolMax°C70-50 RAX-60 max-60 rolMax altitudem30003				Short circuit current	kA	100
Fuse class J Standard fault Short circuit current kA 10 Fuse rating A 200 Fuse class RK5 Ambient conditions RK5 Temperature 0 Operating temperature min °C Max °C 70 Storage temperature min °C Max altitude m 3000 Resistance & Protection 3						
Standard fault Short circuit current kA 10 Fuse rating A 200 Fuse class RK5 Ambient conditions Temperature 0 Operating temperature min °C -50 max °C 70 Storage temperature min °C -60 max °C 80 Max altitude m 3000 Resistance & Protection 3				-		
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Fuse class RK5 Ambient conditions Temperature Temperature Operating temperature Min °C -50 max °C 70 Storage temperature min °C -60 Max altitude m 3000 Resistance & Protection Pollution degree 3						
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Temperature Min °C -50 max °C 70 Storage temperature min °C -60 max °C 80 Max altitude m 3000 Resistance & Protection Pollution degree 3	Ambient conditions					
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Pollution degree 3					m	3000
· · · · ·		ection				
Dimensions						3
	Dimensions					



BF65T4A23060 FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 100A, AC COIL 60HZ, 230VAC

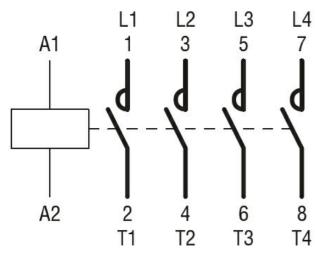






BF80T2 82mm/3.23"

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