## BF6500A024



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 65A, AC COIL 50/60HZ, 24VAC



Product designation			Power contactor
Product type designation			BF65
Contact characteristics			
Number of poles		nr.	3
Rated insulation voltage Ui		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operating frequency		i v	0
operating nequency	Operational frequency min	Hz	25
	Operational frequency max	Hz	400
Conventional free air thermal current Ith		A	100
Operating current		~	100
Operating current	Operational surrout $AC1$ (<40°C)	٨	100
	Operational current AC1 (≤40°C)	A	
	Operational current AC3 (≤440V ≤55°C)	A	65
	Operational current AC4 (400V)	A	31
Rated operational power AC1 (T≤40°C)	2001/	1.1.4.7	20
	230V	kW	38
	400V	kW	65
	500V	kW	82
	690V	kW	114
Rated operational power AC3 (T≤55°C)			
	230V	kW	18.5
	400V	kW	30
	415V	kW	37
	440V	kW	37
	500V	kW	37
	690V	kW	45
	1000V	kW	30
Short-time allowable current for 10s (IEC/EN	60947-1)	Α	640
Protection fuse			
	gG (IEC)	А	125
	aM (IEC)	А	80
Making capacity (RMS value)		А	650
Breaking capacity at voltage			
	Breaking capacity 440V	А	520
	Breaking capacity 500V	А	425
	Breaking capacity 690V	А	376
Resistance per pole (average value)		mΩ	0.8
Power dissipation per pole (average value)			
,	Power dissipation pole (average value) Ith	W	8
	AC3	W	3.4
Tightening torque for terminals			
	min	Nm	4
	max	Nm	5
	min	lbft	2.95

lbft

max

3.69



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Tightening torque for c	oil terminal			
		min	Nm	0.8
		max	Nm	1
		min	lbft	0.8
		max	lbft	0.74
	imultaneously connectable		nr.	2
Conductor section				
	AWG			
		min		14
		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 protect	ion according to IEC/EN 60529			IP20 front
Auxiliary contact chara				
Operational current AC			А	100
Operating current DC1				
opolating carloit Dol	•			Screw / DIN rail
		110V	А	35mm
Ambient conditions				oonnin
Temperature				
remperature	Operating temperature			
	Operating temperature		°C	-50
		min	°C	-50 70
		max	U	70
	Storage temperature		° <b>^</b>	<u></u>
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Operating position				
		normal		Vertical plan
		allowable		±30°
Mounting				Screw / DIN rail
				35mm
Weight			g	1.02
Operations				
Mechanical life			Cycles	15000000
Electrical life			Cycles	1400000
Safety related data				
	Dd according to EN/ISO 13489-1			
	<u>.</u>	rated load	Cicli	1400000
		mechanical load	Cicli	15000000
Mirror contats accordin	ng to IEC/EN 609474-4-1		2.00	yes
EMC compatibility				yes
AC coil operating				,
AC operating voltage				
To operating voltage	of E0/60Hz and noward at E014-			
	of 50/60Hz coil powered at 50Hz			
	pick-up	<u></u> *.	0/11-	0.9
		min	%Us	0.8
		max	%Us	1.1
	drop-out			

BF6500A024

BF6500A024



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			min	%Us	0.2	
			max	%Us	0.55	
	of 50/60Hz coil powered					
		pick-up	min	0/110	0.85	
			min max	%Us %Us	0.85	
		drop-out	max	/005	1.1	
			min	%Us	0.4	
			max	%Us	0.55	
	of 60Hz coil powered at	60Hz		,	0.00	
		pick-up				
			min	%Us	0.8	
			max	%Us	1.1	
		drop-out				
			min	%Us	0.2	
			max	%Us	0.55	
AC operating voltage						
	of 50/60Hz coil powered	d at 50Hz				
			in-rush	VA	210	
			holding	VA	15	
	of 50/60Hz coil powered	d at 60Hz				
			in-rush	VA	195	
	<u> </u>		holding	VA	13	
	of 60Hz coil powered at	60HZ	in much	١/٨	04.0	
			in-rush	VA	210	
Dissipation at holding :	<20°C 50H-		holding	VA W	15 5.0	
	SZU C 50HZ			٧V	5.0	
May cucles treationer						
Max cycles frequency				Cycles/ł	3600	
Mechanical operations				Cycles/ł	n 3600	
Mechanical operations Operating times				Cycles/ł	n 3600	
Mechanical operations				Cycles/ł	n 3600	
Mechanical operations Operating times	ontrol	Closing NO		Cycles/ł	n 3600	
Mechanical operations Operating times	ontrol	Closing NO	min	Cycles/ł ms	n 3600 12	
Mechanical operations Operating times	ontrol	Closing NO	min max			
Mechanical operations Operating times	ontrol	Closing NO Opening NO		ms	12 28	
Mechanical operations Operating times	ontrol	-	max	ms	12 28 8	
Mechanical operations Operating times Average time for Us co	ontrol	-	max	ms ms	12 28	
Mechanical operations Operating times Average time for Us co UL technical data	ontrol in AC	Opening NO	max	ms ms ms	12 28 8	
Mechanical operations Operating times Average time for Us co UL technical data	ontrol	Opening NO	max min max	ms ms ms ms	12 28 8 22	
Mechanical operations Operating times Average time for Us co UL technical data	ontrol in AC	Opening NO	max min max at 480V	ms ms ms ms	12 28 8 22 65	
Mechanical operations Operating times Average time for Us co UL technical data Full-load current (FLA)	ontrol in AC for three-phase AC moto	Opening NO	max min max	ms ms ms ms	12 28 8 22	
Mechanical operations Operating times Average time for Us co UL technical data	ontrol in AC for three-phase AC moto	Opening NO	max min max at 480V	ms ms ms ms	12 28 8 22 65	
Mechanical operations Operating times Average time for Us co UL technical data Full-load current (FLA)	ontrol in AC for three-phase AC moto	Opening NO	max min max at 480V at 600V	ms ms ms A A	12 28 8 22 65 62	
Mechanical operations Operating times Average time for Us co UL technical data Full-load current (FLA)	ontrol in AC for three-phase AC moto	Opening NO	max min max at 480V at 600V at 200/208V	ms ms ms A A	12 28 8 22 65 62 20	
Mechanical operations Operating times Average time for Us co UL technical data Full-load current (FLA)	ontrol in AC for three-phase AC moto	Opening NO	max min max at 480V at 600V at 200/208V at 220/230V	ms ms ms A A hp	12 28 8 22 65 62 20 25	
Mechanical operations Operating times Average time for Us co UL technical data Full-load current (FLA)	ontrol in AC for three-phase AC moto	Opening NO	max min max at 480V at 600V at 200/208V at 220/230V at 220/230V at 460/480V	ms ms ms A A A	12 28 8 22 65 62 20 25 50	
Mechanical operations Operating times Average time for Us co UL technical data Full-load current (FLA)	ontrol in AC for three-phase AC moto	Opening NO	max min max at 480V at 600V at 200/208V at 220/230V	ms ms ms A A hp	12 28 8 22 65 62 20 25	
Mechanical operations Operating times Average time for Us co UL technical data Full-load current (FLA) Yielded mechanical pe	ontrol in AC for three-phase AC moto	Opening NO	max min max at 480V at 600V at 200/208V at 220/230V at 220/230V at 460/480V	ms ms ms A A A	12 28 8 22 65 62 20 25 50	
Mechanical operations Operating times Average time for Us co UL technical data Full-load current (FLA) Yielded mechanical pe	ontrol in AC for three-phase AC moto erformance for three-phase AC mot	Opening NO	max min max at 480V at 600V at 200/208V at 220/230V at 220/230V at 460/480V	ms ms ms A A A	12 28 8 22 65 62 20 25 50	
Mechanical operations Operating times Average time for Us co UL technical data Full-load current (FLA) Yielded mechanical pe	ontrol in AC for three-phase AC moto erformance for three-phase AC mot	Opening NO	max min max at 480V at 480V at 600V at 220/208V at 220/208V at 220/230V at 460/480V at 575/600V	ms ms ms A A hp hp hp hp	12 28 8 22 65 62 20 25 50 60	
Mechanical operations Operating times Average time for Us co UL technical data Full-load current (FLA) Yielded mechanical per General USE	ontrol in AC for three-phase AC moto erformance for three-phase AC mot	Opening NO	max min max at 480V at 480V at 600V at 220/208V at 220/208V at 220/230V at 460/480V at 575/600V	ms ms ms A A hp hp hp hp	12 28 8 22 65 62 20 25 50 60	
Mechanical operations Operating times Average time for Us co UL technical data Full-load current (FLA) Yielded mechanical per General USE Other features	ontrol in AC for three-phase AC moto erformance for three-phase AC mot	Opening NO	max min max at 480V at 480V at 600V at 220/208V at 220/208V at 220/230V at 460/480V at 575/600V	ms ms ms A A hp hp hp hp	12 28 8 22 65 62 20 25 50 60 32	

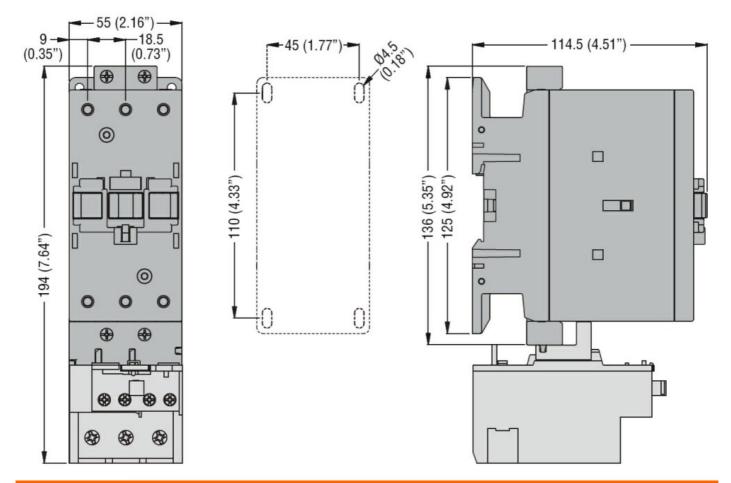
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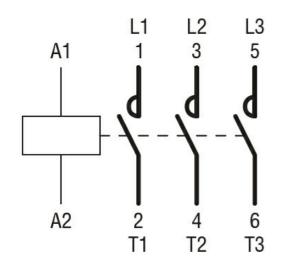
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## Wiring diagrams



## Certifications and compliance

Certifications	
	CSA C22.2 n° 60947-1
	CSA C22.2 n° 60947-4-1
	IEC/EN 60947-1
	IEC/EN 60947-4-1
	UL 60947-1
	UL 60947-4-1
Compliance	
	cULus

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ETIM 6 classification

EC000066 - Power contactor, AC switching

BF6500A024