



Product type designation Contact characteristics Number of poles Rated insulation voltage Ui IEC/EN Rated impulse withstand voltage Uimp Operational frequency	min max	Nr. V kV Hz	BF65 3 1000 8
Number of poles Rated insulation voltage Ui IEC/EN Rated impulse withstand voltage Uimp		V kV	1000
Rated insulation voltage Ui IEC/EN Rated impulse withstand voltage Uimp		V kV	1000
Rated impulse withstand voltage Uimp		kV	
			8
Operational frequency		H7	
		H7	
	max	1 14	25
		Hz	400
IEC Conventional free air thermal current Ith		А	100
Operational current le			
AC-1 (≤4	0°C)	А	100
AC-1 (≤5		А	80
AC-1 (≤7	,	А	70
AC-3 (≤440V ≤5		А	65
AC-4 (4		А	31
Rated operational power AC-3 (T≤55°C)	,		
	230V	kW	18.5
	400V	kW	30
	415V	kW	37
	440V	kW	37
!	500V	kW	37
(	690V	kW	45
1	V00V	kW	30
Rated operational current AC-3 (T≤55°C)			
:	230V	А	65
	400V	А	65
·	415V	А	65
·	440V	А	65
· · · · · · · · · · · · · · · · · · ·	500V	А	53
	690V	А	47
1(	V00V	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 $L/R \le 1$ ms with 1 poles in series			
	≤24V	А	50
	48V	А	50
	75V	А	50
	110V	А	8
	220V	А	_
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	≤24V	А	70



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	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	A	70
	75V	A	70
	110V	A	60
	220V		90
	2200	A	90
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series	-0.0.4		70
	≤24V	A	70
	48V	А	70
	75V	А	70
	110V	А	70
	220V	Α	110
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 1 poles in series			
	≤24V	А	35
	48V	А	25
	75V	А	25
	110V	A	3
	220V	A	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	2201	7	
Le max current le in Deo-Deo with L/K = 15m3 with 2 poles in series	≤24V	۸	45
		A	
	48V	A	40
	75V	A	40
	110V	Α	30
	220V	A	5
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 3 poles in series			
	≤24V	Α	55
	48V	Α	50
	75V	А	50
	110V	А	35
	220V	А	52
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
•	≤24V	А	60
	48V	A	60
	40V 75V	A	60
	110V	A	50
	220V		50 65
Short time allowable autropt for 10a (IEC/ENCO047.4)	2201	A	
Short-time allowable current for 10s (IEC/EN60947-1)		А	640
Protection fuse	0 (= 0)		
	gG (IEC)	A	125
	aM (IEC)	A	80
Making capacity (RMS value)		А	650
Breaking capacity at voltage			
	440V	А	520
	500V	А	425
	690V	А	376
Resistance per pole (average value)		mΩ	0.8
Power dissipation per pole (average value)			
	lth	W	8
	AC-3	W	3.4
Tightoning torque for terminale	AC-3	vv	0.4
Tightening torque for terminals			



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ENERGY AND AUTOMATION				
		min	Nm	4
		max	Nm	5
		min	lbin	2.95
		max	lbin	3.69
Fightening torque for a	coil terminal			
		min	Nm	0.8
		max	Nm	1
		min	lbin	0.8
		max	lbin	0.74
Max number of wires s	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		2
	Flexible w/o lug conductor section			
		min	mm²	1.5
		max	mm²	35
	Flexible c/w lug conductor section	Παλ		
	TICKING OF WING CONDUCTOR SECTION	min	mm²	1.5
				35
	tion opporting to IEO/EN COEOO	max	mm²	
	tion according to IEC/EN 60529			IP20 front
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	1060
Conductor section				
	AWG/kcmil conductor section			
		max		2
Operations				
Mechanical life			cycles	15000000
Electrical life			cycles	1400000
Safety related data			.,	
	0d according to EN/ISO 13489-1			
		rated load	cycles	1400000
		mechanical load	cycles	15000000
Mirror contate accordi	ng to IEC/EN 609474-4-1		Cycles	
	ng to iec/en 009474-4-1			yes
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 5	U/6UHZ, 6UHZ			
		min	V	20
		max	V	48
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	85 Us min
	drop-out			
	-	max	%Us	≤70 Us min
	of 50/60Hz coil powered at 60Hz			
	, pick-up			
	1 - · · r	min	%Us	85 Us min
		max	%Us	110 Us max

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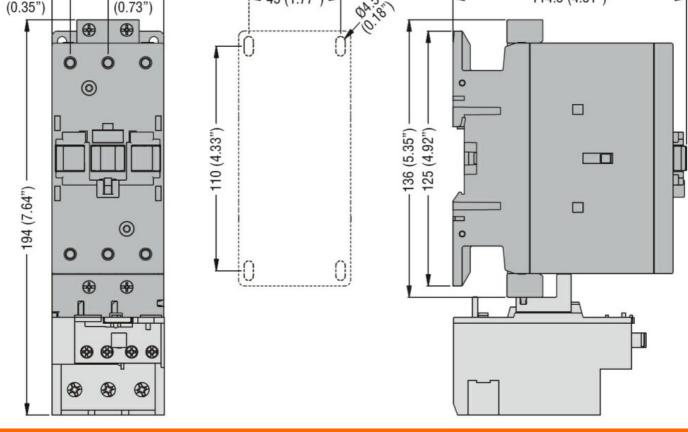
	drop-out			
		max	%Us	≤70 Us min
AC average coil consu	umption at 20°C			
	of 50/60Hz coil powered at 50Hz			/
		in-rush	VA	35120
	of 50/60Hz coil powered at 60Hz	holding	VA	1.53.7
		in-rush	VA	35120
		holding	VA	1.53.7
Dissipation at holding	≤20°C 50Hz		W	12.5
DC coil operating				
DC rated control volta	ge			
		min	V	20
<b>DO</b>		max	V	48
DC operating voltage	niakun			
	pick-up	min	%Us	80 Us min
		max	%Us	110 Us max
	drop-out		,	
		max	%Us	≤70 Us min
Average coil consump	otion ≤20°C			
		in-rush	W	2368
		holding	W	1.21,9
Max cycles frequency			//	1500
Mechanical operation Operating times			cycles/h	1500
Average time for Us c	ontrol			
/Welage ame for 05 0				
	in AC			
	in AC Closing NO			
	in AC Closing NO	min	ms	12
		min max	ms ms	12 28
		max	-	28
	Closing NO	max	ms ms	28 8
	Closing NO Opening NO	max	ms	28
	Closing NO Opening NO in DC	max	ms ms	28 8
	Closing NO Opening NO	max min max	ms ms ms	28 8 22
	Closing NO Opening NO in DC	max	ms ms	28 8
	Closing NO Opening NO in DC	max min max min	ms ms ms	28 8 22 40
	Closing NO Opening NO in DC Closing NO	max min max min	ms ms ms	28 8 22 40 85 20
	Closing NO Opening NO in DC Closing NO	max min max min max	ms ms ms ms	28 8 22 40 85
UL technical data	Closing NO Opening NO in DC Closing NO Opening NO	max min max min max min	ms ms ms ms ms ms	28 8 22 40 85 20
	Closing NO Opening NO in DC Closing NO	max min max min max min max	ms ms ms ms ms ms	28 8 22 40 85 20 55
	Closing NO Opening NO in DC Closing NO Opening NO	max min max min max min max at 480V	ms ms ms ms ms ms	28 8 22 40 85 20 55 65
Full-load current (FLA	Closing NO Opening NO in DC Closing NO Opening NO	max min max min max min max	ms ms ms ms ms ms	28 8 22 40 85 20 55
	Closing NO Opening NO in DC Closing NO Opening NO ) for three-phase AC motor	max min max min max min max at 480V	ms ms ms ms ms ms	28 8 22 40 85 20 55 65
Full-load current (FLA	Closing NO Opening NO in DC Closing NO Opening NO	max min max min max min max at 480V	ms ms ms ms ms ms	28 8 22 40 85 20 55 65
Full-load current (FLA	Closing NO Opening NO in DC Closing NO Opening NO ) for three-phase AC motor	max min max min max min max at 480V at 600V	ms ms ms ms ms ms A A	28 8 22 40 85 20 55 65 62 20 25
Full-load current (FLA	Closing NO Opening NO in DC Closing NO Opening NO ) for three-phase AC motor	max min max min max min max at 480V at 600V 220/208V 220/208V 220/208V 220/208V 220/208V	ms ms ms ms ms ms A A A HP HP HP	28 8 22 40 85 20 55 65 62 20 25 50
Full-load current (FLA Yielded mechanical pe	Closing NO Opening NO in DC Closing NO Opening NO ) for three-phase AC motor	max min max min max min max at 480V at 600V	ms ms ms ms ms ms A A HP HP	28 8 22 40 85 20 55 65 62 20 25
Full-load current (FLA	Closing NO Opening NO in DC Closing NO Opening NO ) for three-phase AC motor	max min max min max min max at 480V at 600V 220/208V 220/208V 220/208V 220/208V 220/208V	ms ms ms ms ms ms A A A HP HP HP	28 8 22 40 85 20 55 65 62 20 25 50
Full-load current (FLA Yielded mechanical pe	Closing NO Opening NO in DC Closing NO Opening NO ) for three-phase AC motor	max min max min max min max at 480V at 600V 220/208V 220/208V 220/208V 220/208V 220/208V	ms ms ms ms ms ms A A A HP HP HP	28 8 22 40 85 20 55 65 62 20 25 50

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



Short-circuit protecti	on fuse, 600V			
	High fault			
		Short circuit current	kA	100
		Fuse rating	А	200
		Fuse class		J
	Standard fault			
		Short circuit current	kA	10
		Fuse rating	А	200
		Fuse class		RK5
Ambient conditions				
Femperature				
	Operating temperature			
		min	°C	-40
		max	°C	70
	Storage temperature			
		min	°C	-50
		max	°C	80
Max altitude			m	3000
Resistance & Protec	tion			
Pollution degree				3
Dimensions				
9 (0.35") (0.10 (0.35)) (0.10)	6") 18.5 0.73") ⊕ -45 (1.77") ⊕ <sup>45</sup> .8°		14.5 (4	.51") — 🕨

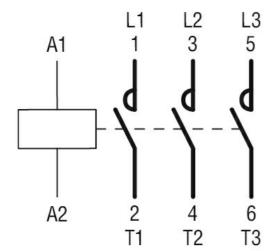


## Wiring diagrams

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**BF6500E024** THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 65A, AC/DC COIL, 20...48VAC/DC



## 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