Electric

BF6500A230 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 65A, AC COIL 50/60HZ, 230VAC



Product designation			Power contactor
Product type designation			BF65
Contact characteristics			
Number of poles		Nr.	3
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		A	100
Operational current le			100
	AC-1 (≤40°C)	А	100
	AC-1 (≤55°C)	A	80
	AC-1 (≤70°C)	A	70
	AC-3 (≤440V ≤55°C)	A	65
	AC-4 (400V)	A	31
Rated operational power AC-3 (T≤55°C)	710 + (+001)		01
	230V	kW	18.5
	400V	kW	30
	400V 415V	kW	37
	413V 440V	kW	37
	440V 500V	kW	37
	690V	kW	45
	1000V	kW	30
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series	1000 V		50
	≤24V	А	50
	48V	A	50
	48V 75V	A	50
	110V	A	8
	220V	A	
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	220 V	A	_
The max current is in DCT with $L/R \le 100$ with 2 poles in series	~24V	٨	70
	≤24V	A	70 70
	48V	A	70
	75V	A	70
	110V	A	60
IFO men summer the in DOA with L/D < America with 2 meters in series	220V	A	9
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series	-0.07		
	≤24V	A	70
	48V	A	70
	75V	A	70
	110V	A	60
	220V	A	90
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series		_	
	≤24V	A	70
	48V	А	70



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	75V	А	70
	110V	А	70
	220V	А	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	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	А	5
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 3 poles in series			
	≤24V	А	55
	48V	А	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	А	60
	75V	А	60
	110V	А	50
	220V	А	65
Short-time allowable current for 10s (IEC/EN60947-1)		А	640
Protection fuse			
	gG (IEC)	А	125
	aM (IEC)	А	80
Making capacity (RMS value)		А	650
Breaking capacity at voltage			
	440V	А	520
	500V	A	425
	690V	A	376
Resistance per pole (average value)		mΩ	0.8
Power dissipation per pole (average value)			0.0
	lth	W	8
	AC3	Ŵ	3.4
Tightening torque for terminals		**	0.1
	min	Nm	4
	max	Nm	5
	min	Ibin	5 2.95
	max	Ibin	3.69
	max		5.03
Tightening torque for coil terminal			
Tightening torque for coil terminal	min	Nm	0.8
Tightening torque for coil terminal	min	Nm	0.8
Tightening torque for coil terminal	max	Nm	1
Tightening torque for coil terminal	max min	Nm Ibin	1 0.8
Tightening torque for coil terminal Max number of wires simultaneously connectable	max	Nm	1

Flexible w/o lug conductor section

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	min	mm²	1.5
	max	mm²	35
Flexible c/w lug conductor section			
, i i i i i i i i i i i i i i i i i i i	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°
			Screw / DIN rail
Fixing			35mm
Weight		g	1020
Operations		-	
Mechanical life		cycles	15000000
Electrical life		cycles	1400000
Safety related data			
Performance level B10d according to EN/ISO 13489-1			
Ŭ	rated load	cycles	1400000
	mechanical load	cycles	15000000
Mirror contats according to IEC/EN 609474-4-1		,	yes
EMC compatibility			yes
AC coil operating			,
Rated AC voltage at 50/60Hz		V	230
AC operating voltage			
of 50/60Hz coil powered at 50Hz			
pick-up			
plox op	min	%Us	80
	max	%Us	110
drop-out		,	
	min	%Us	20
	max	%Us	55
of 50/60Hz coil powered at 60Hz			
pick-up			
	min	%Us	85
	max	%Us	110
drop-out			
	min	%Us	40
	max	%Us	55
AC average coil consumption at 20°C			
of 50/60Hz coil powered at 50Hz			
	in-rush	VA	210
	holding	VA	15
of 50/60Hz coil powered at 60Hz	· · · · · · · · · · · · · · · · · ·		
	in-rush	VA	195
	holding	VA	13
of 60Hz coil powered at 60Hz	· · · · · · · · · · · · · · · · · ·		
·	in-rush	VA	210
	holding	VA	15
Dissipation at holding ≤20°C 50Hz	· · · · · · · · · · · · · · · · · ·	W	5
Max cycles frequency			
Mechanical operation		cycles/h	3600
Operating times			
Average time for Us control			
v			

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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

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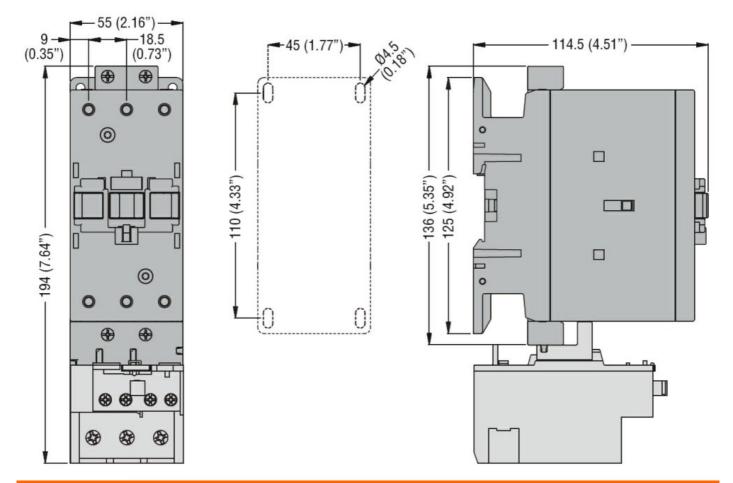
230VAC

	in AC				
		Closing NO			
			min	ms	12
			max	ms	28
		Opening NO			
			min	ms	8
			max	ms	22
UL technical data	<i>.</i>				
Full-load current (FLA)	for three-phase AC mo	tor	((00) (
			at 480V	A	65
<u></u>	.		at 600V	A	62
Yielded mechanical pe		-4			
	for three-phase AC m	otor	200/2001/		20
			200/208V	HP	20
			220/230V	HP	25
			460/480V 575/600V	HP HP	50 60
General USE			575/6000	ΠF	00
General USE	Contactor				
	Contactor		AC current	А	100
Short-circuit protection			AC current	Λ	100
Chort chout protection	High fault				
	rightadit		Short circuit current	kA	100
			Fuse rating	A	200
			Fuse class		J
	Standard fault				
			Short circuit current	kA	10
			Fuse rating	А	200
			Fuse class		RK5
Ambient conditions					
Temperature					
	Operating temperature	e			
			min	°C	-50
			max	°C	70
	Storage temperature				
			min	°C	-60
			max	°C	80
Max altitude				m	3000
Resistance & Protectic	n in				
Pollution degree					3
Dimensions [mm (in)]					

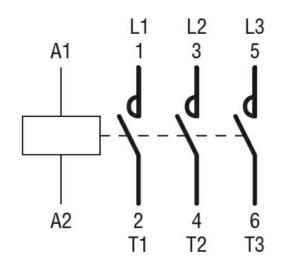
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Wiring diagrams



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

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cULus

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching