

BF6500A57560 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 65A, AC COIL 60HZ, 575VAC



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		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)	А	65
	AC-4 (400V)	Α	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
	1000V	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
	1000V	A	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	A	8
	220V	A	_
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	≤24V	А	70

ENERGY AND AUTOMATION

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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 ≤ 1ms with 3 poles in series			
	≤24V	А	70
	48V	А	70
	75V	А	70
	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	A	70
	75V	A	70
	110V	A	70
	220V	A	110
$\frac{1}{100}$	220 V	A	110
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 1 poles in series	-0111	۸	25
	≤24V	A	35
	48V	A	25
	75V	A	25
	110V	A	3
	220V	A	_
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 2 poles in series			
	≤24V	A	45
	48V	Α	40
	75V	A	40
	110V	Α	30
	220V	Α	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 $L/R \le 15$ ms with 4 poles in series			
	≤24V	А	60
	48V	А	60
	75V	A	60
	110V	A	50
	220V	A	65
Short-time allowable current for 10s (IEC/EN60947-1)	220 V	A	640
Protection fuse		/ \	010
	gG (IEC)	А	125
	aM (IEC)	A	80
Making capacity (PMS value)			650
Making capacity (RMS value)		A	000
Breaking capacity at voltage	4.4014		500
	440V	A	520
	500V	A	425
	690V	A	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			



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		min	Nm	4
		max	Nm	5
		min	Ibin	2.95
		max	Ibin	3.69
Tightening torque for	coil terminal	Шах	10111	0.00
rightening torque for		min	Nm	0.8
			Nm	1
		max min	Ibin	0.8
			Ibin	0.8
Max number of wires	aimultanagualy agnagatabla	max	Nr.	2
	simultaneously connectable		INI.	2
Conductor section				
	AWG/Kcmil			0
		max		2
	Flexible w/o lug conductor section		2	
		min	mm²	1.5
		max	mm²	35
	Flexible c/w lug conductor section		_	
		min	mm²	1.5
		max	mm²	35
	ction according to IEC/EN 60529			IP20 front
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	1020
Conductor section				
	AWG/kcmil conductor section			
		max		2
Operations				
Mechanical life			cycles	15000000
Electrical life			cycles	1400000
Safety related data			0)0.00	
	0d according to EN/ISO 13489-1			
		rated load	cycles	1400000
		mechanical load	cycles	15000000
Mirror contats accord	ing to IEC/EN 609474-4-1		0,0100	
EMC compatibility				yes
AC coil operating				yes
Rated AC voltage at 6			V	575
			V	575
AC operating voltage				
	of 60Hz coil powered at 60Hz			
	pick-up		0/17	
		min	%Us	80
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	55
AC average coil cons	umption at 20°C			
	of 60Hz coil powered at 60Hz			
		in-rush	VA	210
		holding	VA	15
		0		





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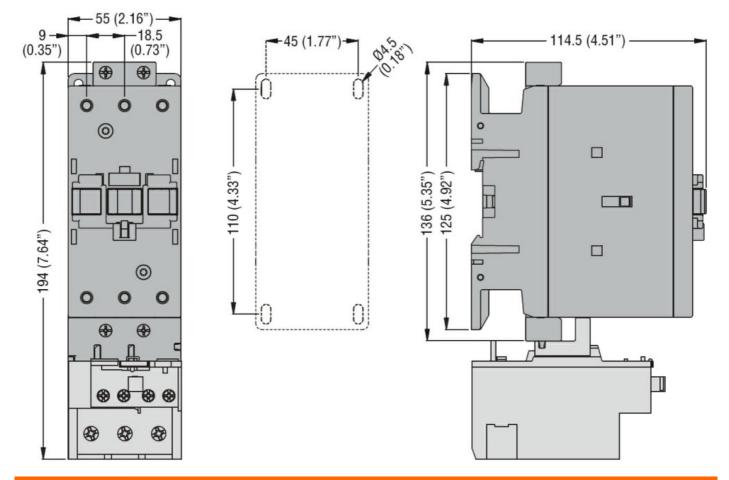
Dissipation at holdi	ng ≤20°C 50Hz			W	5
Max cycles frequen	-				
Mechanical operation				cycles/h	3600
Operating times					
verage time for U	s control				
	in AC				
		Closing NO			
			min	ms	12
			max	ms	28
		Opening NO			
			min	ms	8
			max	ms	22
	in DC				
		Closing NO			10
			min	ms	40
			max	ms	85
		Opening NO		ma	20
			min	ms ms	20 55
JL technical data			max	ms	55
	LA) for three-phase A	C motor			
			at 480V	А	65
			at 600V	A	62
/ielded mechanica	Inerformance		at 000 v	Λ	02
	for three-phase	AC motor			
	ior intee-phase		200/208V	HP	20
			220/230V	HP	25
			460/480V	HP	50
			575/600V	HP	60
General USE					
	Contactor				
	Contactor		AC current	А	100
Short-circuit protec	tion fuse. 600V				
	High fault				
			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 tempe	erature			
			min	°C	-50
			max	°C	70
	Storage tempera	ature			
			min	°C	-60
			max	°C	80
Vax altitude				m	3000
Resistance & Prote	ection				
Pollution degree					3
Dimensions					

BF6500A57560 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

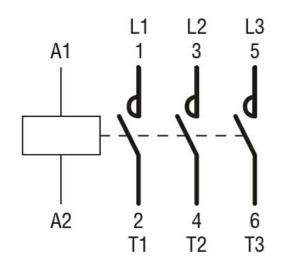
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Wiring diagrams



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