electric ENERGY AND AUTOMATION

BF5000A22060 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 50A, AC COIL 60HZ, 220VAC



Product designation			Power contactor
Product type designation Contact characteristics			BF50
Number of poles		nr.	3
Rated insulation voltage Ui IEC/EN		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operational frequency		i v	0
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		A	90
Operational current le			
	AC-1 (≤40°C)	А	90
	AC-1 (≤55°C)	А	75
	AC-1 (≤70°C)	А	65
	AC-3 (≤440V ≤55°C)	А	50
	AC-4 (400V)	А	28
Rated operational power AC-3 (T≤55°C)			
	230V	kW	11
	400V	kW	18.5
	415V	kW	22
	440V	kW	22
	500V	kW	22
	690V	kW	30
	1000V	kW	18.5
Rated operational power AC-1 (T≤40°C)	0001/		.
	230V	kW	34
	400V	kW	59
	500V 690V	kW kW	74 102
IEC max current le in DC1 with L/R \leq 1ms with 1 poles in series	090 V	ĸvv	102
The max current le in DCT with E/K 2 this with 1 poles in series	≤24V	А	45
	48V	A	40
	48V 75V	A	40
	110V	A	8
	220V	A	_
IEC max current le in DC1 with L/R \leq 1ms with 2 poles in series			
	≤24V	А	60
	48V	А	60
	75V	А	60
	110V	А	50
	220V	А	7
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			
	≤24V	А	60
	48V	А	60
	75V	А	60



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 50A, AC COIL 60HZ, 220VAC

BF5000A22060

	110V	А	55
	220V	А	75
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series			
	≤24V	А	60
	48V	А	60
	75V	А	60
	110V	А	60
	220V	Α	90
IEC max current le in DC3-DC5 with L/R \leq 15ms with 1 poles in series			
	≤24V	А	30
	48V	А	25
	75V	А	22
	110V	А	3
	220V	A	-
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 2 poles in series			
	≤24V	A	35
	48V	A	35
	75V	A	30
	110V	A	25
	220V	А	5
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 3 poles in series			
	≤24V	A	50
	48V	A	50
	75V	A	45
	110V	A	30
IFC may aureant to in DC2 DC5 with L/D < 15ma with 4 pales in parise	220V	A	40
IEC max current le in DC3-DC5 with L/R \leq 15ms with 4 poles in series	≤24V	۸	FF
	≤24∨ 48V	A A	55 55
	48V 75V	A	55
	110V	A	45
	220V	A	50
Short-time allowable current for 10s (IEC/EN60947-1)	2201	A	400
Protection fuse			100
	gG (IEC)	А	100
	aM (IEC)	A	50
Making capacity (RMS value)	am (120)	A	500
Breaking capacity at voltage			000
	440V	А	400
	500V	A	352
	690V	A	312
Resistance per pole (average value)		mΩ	0.8
Power dissipation per pole (average value)			
	lth	W	6.5
	AC3	Ŵ	2
Tightening torque for terminals			
	min	Nm	4
	max	Nm	5
	min	Ibin	2.95
	max	Ibin	3.69
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 50A, AC COIL 60HZ, 220VAC

Operating times				
Mechanical operation			cycles/h	3600
Max cycles frequency			evels = //	2000
Dissipation at holding			W	5
		holding	VA	15
		in-rush	VA	210
	of 60Hz coil powered at 60Hz			
		holding	VA	13
	-	in-rush	VA	195
	of 50/60Hz coil powered at 60Hz			
		holding	VA	15
	·	in-rush	VA	210
	of 50/60Hz coil powered at 50Hz			
AC average coil cons	umption at 20°C			
		max	%Us	55
		min	%Us	20
	drop-out	Παλ	/003	
		min max	%Us %Us	80 110
	pick-up		0/11-	80
	of 60Hz coil powered at 60Hz			
AC operating voltage				
AC coil operating				
Rated AC voltage at 6	0Hz		V	220
EMC compatibility				yes
Mirror contats according to IEC/EN 609474-4-1				yes
		mechanical load	cycles	15000000
		rated load	cycles	1400000
Performance level B1	0d according to EN/ISO 13489-1			
Safety related data				
Electrical life			cycles	1400000
Mechanical life			cycles	15000000
Operations				
Weight			g	1020
Fixing				35mm
Fixing				Screw / DIN ra
		allowable		±30°
		normal		Vertical plan
Operating position				
Mechanical features	ction according to IEC/EN 60529			IF20 II0III
Dower terminal protec	ation apporting to IEC/EN 60520	max	11111-	IP20 front
		min max	mm² mm²	1.5 35
	Flexible c/w lug conductor section			4 5
		max	mm²	35
		min	mm²	1.5
	Flexible w/o lug conductor section		_	
Conductor section				
	simultaneously connectable		nr.	2
		max	lbft	0.74

in AC

BF5000A22060



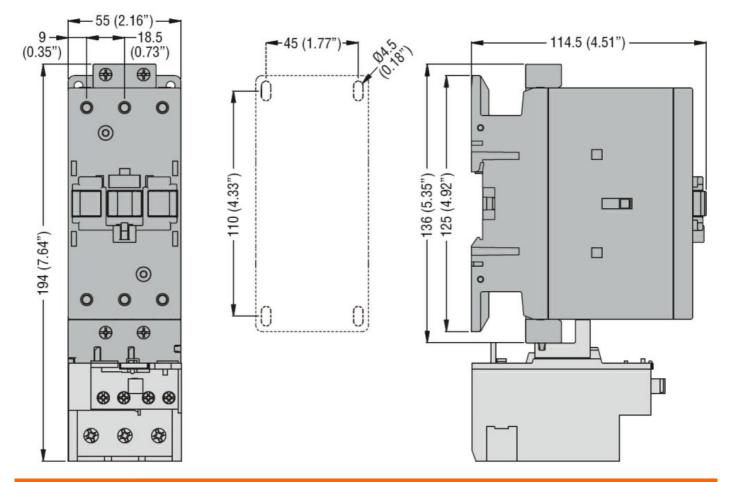
THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 50A, AC COIL 60HZ, 220VAC

		Closing NO			40
			min	ms	12
			max	ms	28
		Opening NO			
			min	ms	8
			max	ms	22
	in DC				
		Closing NO			
			min	ms	40
			max	ms	85
		Opening NO			
		515 5	min	ms	20
			max	ms	55
UL technical data			Пах	IIIO	00
	A) for three-phase AC m	otor			
	y for three-phase AC II		-1 4001/	^	50
			at 480V	A	52
			at 600V	A	41
Yielded mechanical p					
	for single-phase AC	motor			
			110/120V	HP	5
			230V	HP	10
	for three-phase AC	motor			
	-		200/208V	HP	15
			220/230V	HP	20
			460/480V	HP	40
			575/600V	HP	40
General USE					
	Contactor				
	Contactor		AC current	А	90
Short-circuit protectio	$\sim f_{\rm HOO} = 600 V/$		AC current	A	90
Short-circuit protectio					
	High fault				100
			Short circuit current	kA	100
			Fuse rating	A	150
			Fuse class		J
	Standard fault				
			Short circuit current	kA	5
			Fuse rating	Α	150
			Fuse class		RK5
Ambient conditions					
Temperature					
	Operating temperatu	ure			
	i Steriperate		min	°C	-50
			max	°Č	70
	Storage temperature	<u>م</u>	max	~	
	otorage temperature	<i>.</i>	min	°C	-60
				°C	-80 80
Max altitude			max		
				m	3000
Resistance & Protect	ion				
Pollution degree					3
Dimensions					

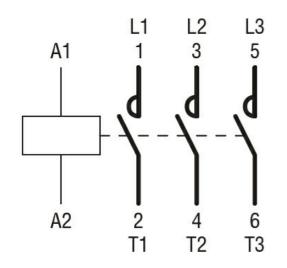
BF5000A22060



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 50A, AC COIL 60HZ, 220VAC



Wiring diagrams



Certifications and compliance

Compliance	
	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
Certificates	
	CCC



BF5000A22060 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 50A, AC COIL 60HZ, 220VAC

cULus

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching