

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 50A, AC COIL 60HZ, 460VAC



			30 10 10
Product designation			Power contactor
Product type designation			BF50
Contact characteristics			2.00
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operational frequency			-
or comercian are question	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		Α	90
Operational current le			
	AC-1 (≤40°C)	Α	90
	AC-1 (≤55°C)	Α	75
	AC-1 (≤70°C)	Α	65
	AC-3 (≤440V ≤55°C)	Α	50
	AC-4 (400V)	Α	28
Rated operational power AC-3 (T≤55°C)	7.0 . (1001)		
· · · · · · · · · · · · · · · · · · ·	230V	kW	11
	400V	kW	22
	415V	kW	22
	440V	kW	22
	500V	kW	22
	690V	kW	30
	1000V	kW	22
Rated operational current AC-3 (T≤55°C)	10001		
Traise sporational carronity to a (1-00 c)	230V	Α	50
	400V	A	50
	415V	A	50
	440V	A	50
	500V	A	44
	690V	A	39
	1000V	A	23
Rated operational power AC-1 (T≤40°C)	1000 V		20
Nated operational power AO-1 (1340 O)	230V	kW	34
	400V	kW	59
	500V	kW	74
	690V	kW	102
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series	090 V	KVV	102
ILO max ounchi le in DO i with L/N > ims with i poles in selles	≤24V	٨	45
	≤24V 48V	A A	45 40
	46 V 75 V		
		A	40
	110V	A	8
IEC may current to in DC1 with L/B < 1mg with 2 pales in series	220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	-21 1	Λ	60
	≤24V	Α	60





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	48V	Α	60
	75V	Α	60
	110V	Α	50
	220V	A	7
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	220 V		
in series	-211 /	۸	00
	≤24V	A	60
	48V	Α	60
	75V	Α	60
	110V	Α	55
	220V	Α	75
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	Α	60
	48V	Α	60
	75V	A	60
	110V	A	60
	220V	Α	90
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	Α	30
	48V	Α	25
	75V	Α	22
	110V	Α	3
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series		- , ,	
TEO THAN OUT OF THE BOO BOO WILL ETT = TOTAL WILL 2 POICS III SCHOOL	≤24V	Α	35
	48V	Α	35
	75V	Α	30
	110V	Α	25
	220V	Α	5
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	≤24V	Α	50
	48V	Α	50
	75V	Α	45
	110V	A	30
	220V		40
150	220 V	Α	40
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	.0.43.4		
	≤24V	Α	55
	48V	Α	55
	75V	Α	55
	110V	Α	45
	220V	Α	50
Short-time allowable current for 10s (IEC/EN60947-1)		Α	400
Protection fuse			
	gG (IEC)	Α	100
	aM (IEC)	A	50
Making consoity (PMC value)	aivi (ILO)		
Making capacity (RMS value)		Α	500
Breaking capacity at voltage		_	
	440V	Α	400
	500V	Α	352
	690V	Α	312
Resistance per pole (average value)		mΩ	0.8
Power dissipation per pole (average value)			
	Ith	W	6.5
	AC-3	W	2
Tightoning targue for tarminals	AU-3	VV	
Tightening torque for terminals			





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		min	Nm	4
		max	Nm	5
		min	lbin	2.95
		max	Ibin	3.69
Tightening torque for o	coil terminal			
		min	Nm	0.8
		max	Nm	1
		min	Ibin	0.8
		max	Ibin	0.74
	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			
		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				
Performance level R1				
r enomiance level bi	0d according to EN/ISO 13489-1			
r enormance level bi	0d according to EN/ISO 13489-1	rated load	cycles	1400000
r enormance level bi	0d according to EN/ISO 13489-1	rated load mechanical load	cycles cycles	1400000 15000000
	0d according to EN/ISO 13489-1 ing to IEC/EN 609474-4-1		-	
			-	15000000
Mirror contats accordi			-	15000000 yes
Mirror contats accordi	ing to IEC/EN 609474-4-1		-	15000000 yes
Mirror contats according EMC compatibility AC coil operating	ing to IEC/EN 609474-4-1		cycles	15000000 yes yes
Mirror contats according EMC compatibility AC coil operating Rated AC voltage at 6	ing to IEC/EN 609474-4-1		cycles	15000000 yes yes
Mirror contats according EMC compatibility AC coil operating Rated AC voltage at 6	ing to IEC/EN 609474-4-1		cycles	15000000 yes yes
Mirror contats according EMC compatibility AC coil operating Rated AC voltage at 6	of 60Hz coil powered at 60Hz		cycles	15000000 yes yes
Mirror contats according EMC compatibility AC coil operating Rated AC voltage at 6	of 60Hz coil powered at 60Hz	mechanical load	v	15000000 yes yes 460
Mirror contats according EMC compatibility AC coil operating Rated AC voltage at 6	of 60Hz coil powered at 60Hz	mechanical load	v V	15000000 yes yes 460
Mirror contats according EMC compatibility AC coil operating Rated AC voltage at 6	of 60Hz coil powered at 60Hz pick-up	mechanical load	v V	15000000 yes yes 460
Mirror contats according EMC compatibility AC coil operating Rated AC voltage at 6	of 60Hz coil powered at 60Hz pick-up	mechanical load min max	v V %Us %Us	15000000 yes yes 460
Mirror contats according EMC compatibility AC coil operating Rated AC voltage at 6	of 60Hz coil powered at 60Hz pick-up	mechanical load min max min	v V %Us %Us %Us	15000000 yes yes 460 80 110 20
Mirror contats according EMC compatibility AC coil operating Rated AC voltage at 6 AC operating voltage	of 60Hz coil powered at 60Hz pick-up	mechanical load min max min	v V %Us %Us %Us	15000000 yes yes 460 80 110 20
Mirror contats according EMC compatibility AC coil operating Rated AC voltage at 6 AC operating voltage	of 60Hz coil powered at 60Hz pick-up drop-out	mechanical load min max min	v V %Us %Us %Us	15000000 yes yes 460 80 110 20
Mirror contats according EMC compatibility AC coil operating Rated AC voltage at 6 AC operating voltage	of 60Hz coil powered at 60Hz pick-up drop-out	mechanical load min max min max	v %Us %Us %Us %Us	15000000 yes yes 460 80 110 20 55

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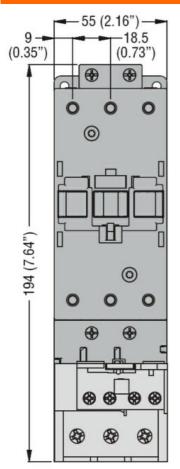
Dissipation at holding	<20°C 50Hz		W	5
Max cycles frequency	20 0 30112		VV	3
Mechanical operation			cycles/h	3600
Operating times			0,0100/11	0000
Average time for Us co	antrol			
Tiverage time for 05 of	in AC			
	Closing NO			
	Closhing 140	min	ms	12
		max	ms	28
	Opening NO	THO A	1110	
	openg	min	ms	8
		max	ms	22
	in DC			
	Closing NO			
	3.33g . 13	min	ms	40
		max	ms	85
	Opening NO	man	5	
		min	ms	20
		max	ms	55
UL technical data				
	for three-phase AC motor			
		at 480V	Α	52
		at 600V	Α	41
Yielded mechanical pe	rformance			
riolada modificinoar po	for single-phase AC motor			
	To single phase the motor	110/120V	HP	5
		230V	HP	10
	for three-phase AC motor	2001	• • • •	
	tor an object of motor	200/208V	HP	15
		220/230V	HP	20
		460/480V	HP	40
		575/600V	HP	40
General USE				
	Contactor			
	Contactor	AC current	Α	90
Short-circuit protection	fuse. 600V	710 00.1011		
2 Should protocolor	High fault			
	 	Short circuit current	kA	100
		Fuse rating	A	150
		Fuse class		J
	Standard fault			-
		Short circuit current	kA	5
		Fuse rating	A	150
		Fuse class		RK5
Ambient conditions				
Temperature				
•	Operating temperature			
	, 3 , 1	min	°C	-50
		max	°C	70
	Storage temperature			
	- U - · · · · · · · · · · · · · · ·	min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protection	on			

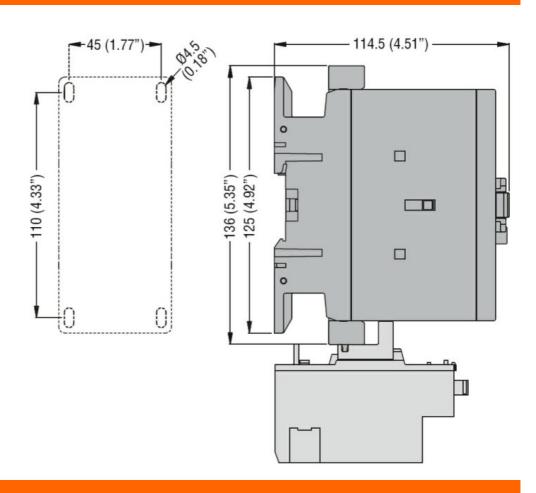
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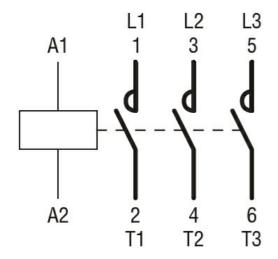
Pollution degree 3

Dimensions





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



ENERGY AND AUTOMATION

BF5000A46060

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Certificates			
	CCC		
	cULus		
ETINA ALAMASSICA ACA			

ETIM classification

EC000066 -ETIM 8.0 Power contactor, AC switching