

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



			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 THAX CUITOR TO IT DOO DOO WILL ETC = TOTIO WILL 2 POICS III SCITES	≤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°
ixing				Screw / DIN rail 35mm
Weight			g	1020
Conductor section				
	AWG/kcmil conductor section			
		max		2
Operations				
Mechanical life				
viechanical ille			cycles	15000000
			cycles cycles	15000000 1400000
Electrical life				
Electrical life Safety related data	0d according to EN/ISO 13489-1			
Electrical life Safety related data	0d according to EN/ISO 13489-1	rated load		
Electrical life Safety related data	0d according to EN/ISO 13489-1	rated load mechanical load	cycles	1400000
Electrical life Safety related data Performance level B1	0d according to EN/ISO 13489-1		cycles	1400000 1400000 15000000
Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility			cycles	1400000
Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating	ing to IEC/EN 609474-4-1		cycles cycles cycles	1400000 1400000 15000000 yes yes
Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 6	ing to IEC/EN 609474-4-1		cycles	1400000 1400000 15000000 yes
Electrical life Safety related data Performance level B1 Wirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 6	ing to IEC/EN 609474-4-1		cycles cycles cycles	1400000 1400000 15000000 yes yes
Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 6	of 60Hz coil powered at 60Hz		cycles cycles cycles	1400000 1400000 15000000 yes yes
Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 6	ing to IEC/EN 609474-4-1	mechanical load	cycles cycles cycles	1400000 1400000 15000000 yes yes
Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 6	of 60Hz coil powered at 60Hz	mechanical load	cycles cycles cycles	1400000 1400000 15000000 yes yes 575
Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 6	of 60Hz coil powered at 60Hz pick-up	mechanical load	cycles cycles cycles	1400000 1400000 15000000 yes yes
Electrical life Safety related data Performance level B1 Wirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 6	of 60Hz coil powered at 60Hz	mechanical load min max	cycles cycles cycles	1400000 1400000 15000000 yes yes 575
Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 6	of 60Hz coil powered at 60Hz pick-up	mechanical load min max min	cycles cycles cycles V %Us %Us %Us	1400000 1400000 15000000 yes yes 575
Electrical life Safety related data Performance level B1 Mirror contats accordi 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	cycles cycles cycles	1400000 1400000 15000000 yes yes 575
Electrical life Safety related data Performance level B1 Mirror contats accordi 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	cycles cycles cycles V %Us %Us %Us	1400000 1400000 15000000 yes yes 575
Electrical life Safety related data Performance level B1 Mirror contats accordi 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 max	cycles cycles cycles V %Us %Us %Us %Us %Us	1400000 1400000 15000000 yes yes 575 80 110 20 55
Electrical life Safety related data Performance level B1	of 60Hz coil powered at 60Hz pick-up drop-out	mechanical load min max min	cycles cycles cycles V %Us %Us %Us	1400000 1400000 15000000 yes yes 575



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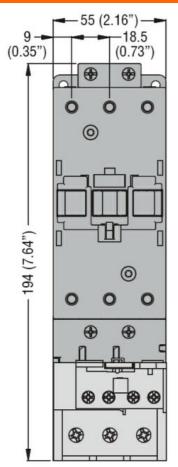
Dissipation at holdin			W	5
Max cycles frequenc				
Mechanical operation	1		cycles/h	3600
Operating times	and the L			
Average time for Us	in AC			
	Closing NO			
	Closing NO	min	ms	12
		max	ms	28
	Opening NO			
	, ,	min	ms	8
		max	ms	22
	in DC			
	Closing NO			
		min	ms	40
		max	ms	85
	Opening NO			00
		min	ms	20
UL technical data		max	ms	55
	A) for three-phase AC motor			
un-load culterit (FL)	ny ior tiliee-pilase no filotol	at 480V	Α	52
		at 600V	A	41
Yielded mechanical ¡	performance	4.0001		• •
, , , , , , , , , , , , , , , , , , , ,	for single-phase AC motor			
	3 1 3 1	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	•		
Ol t - i i t t i	fun 000V	AC current	A	90
Short-circuit protection				
	High fault	Short circuit current	kA	100
		Fuse rating	A	150
		Fuse class	, ,	J
	Standard fault	. 333 3.300		
		Short circuit current	kA	5
		Fuse rating	Α	150
		Fuse class		RK5
Ambient conditions				
Temperature				
	Operating temperature		0.7	
		min	°C	-50 -70
	-	max	°C	70
	Storage temperature		۰.	60
		min	°C °C	-60 80
Max altitude		max		3000
viax aililuue	tion		m	3000

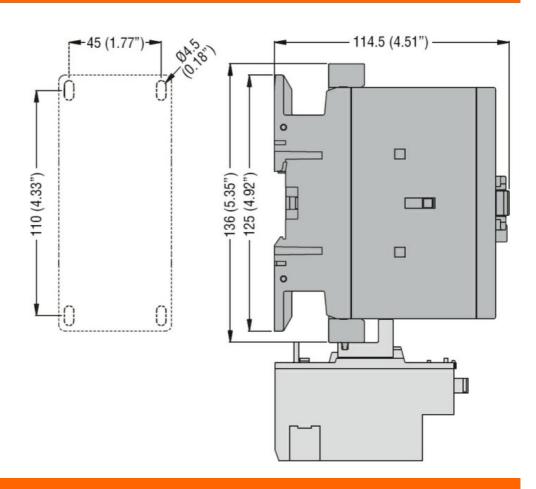
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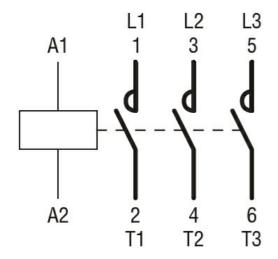
Pollution degree 3

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

BF5000A57560

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Certificates			
	CCC		
	cULus		
ETINA ALAMASSICA ACA			

ETIM classification

EC000066 -ETIM 8.0 Power contactor, AC switching