



Product designation Product type designation			Power contactor 11BF50
Contact characteristics			
Number of poles		nr.	3
Rated insulation voltage Ui		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operating frequency			
	Operational frequency min	Hz	25
	Operational frequency max	Hz	400
Conventional free air thermal current Ith		Α	90
Operating current			
	Operational current AC1 (≤40°C)	Α	90
	Operational current AC3 (≤440V ≤55°C)	Α	50
	Operational current AC4 (400V)	Α	28
Rated operational power AC1 (T≤40°C)		<u> </u>	
	230V	kW	34
	400V	kW	59
	500V	kW	74
	690V	kW	98
Rated operational power AC3A (T≤55°C)			
	Rated operational power AC3 (T≤55°C) 230		14.3
	Rated operational power AC3 (T≤55°C) 400		25
	Rated operational power AC3 (T≤55°C) 415		27.2
	Rated operational power AC3 (T≤55°C) 440		27.2
	Rated operational power AC3 (T≤55°C) 500		33.2
	Rated operational power AC3 (T≤55°C) 690		43.5
	Rated operational power AC3 (T≤55°C) 100)OVkW	25
Short-time allowable current for 10s (IEC/EN6	60947-1)	Α	390
Protection fuse			
	gG (IEC)	Α	100
	aM (IEC)	A	50
Making capacity (RMS value)		Α	800
Breaking capacity at voltage			
	Breaking capacity 440V	Α	800
	Breaking capacity 500V	Α	660
	Breaking capacity 690V	A	500
Resistance per pole (average value)		mΩ	0.8
Power dissipation per pole (average value)			
	Power dissipation pole (average value) Ith	W	6.5
	AC3	W	2
Tightening torque for terminals			
	min	Nm	4
	max	Nm	5
	min	lbft	2.95
	max	lbft	3.7

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

Tightening torque for o	coil terminal			
		min	Nm	0.8
		max	Nm	1
		min	lbft	0.8
		max	lbft	0.74
max number of wires s	simultaneously connectable		nr.	1
Conductor section	·			
	AWG			
		min		14
		max		2/0
	Flexible w/o lug conductor section			
	r ioxidio ii/o lag confadotor cocaem	min	mm²	6
		max	mm²	50
	Flexible c/w lug conductor section	тих		
	r lexible 6, w lag conductor section	min	mm²	6
		max	mm²	50
Dower terminal protect	tion according to IEC/EN 60529	IIIax	111111	IP20 front
Auxiliary contact chara				IFZU IIUIIL
-			۸	00
Operational current AC	,		Α	90
Operating current DC1	13			Caracia / DINI "
		110V	Α	Screw / DIN rail
A sel Control Pitters				35mm
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Operating position				
		normal		Vertical plan
		allowable		±30°
Marratian				Screw / DIN rail
Mounting				35mm
Weight			g	1.36
Operations				
Mechanical life			Cycles	15000000
Electrical life			Cycles	1500000
Safety related data			C y cicc	100000
•	0d according to EN/ISO 13489-1			
T CHOITHANGE ICVCI DI	od according to ETV/IOO 10405 1	rated load	Cicli	1500000
		mechanical load	Cicli	1500000
Mirror contate coordinate	ng to IEC/EN 600474 4 1	medianida idad	CIUI	
	ng to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating				
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	0.8
		max	%Us	1.1
	drop-out			





11BF5000230

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

		min	%Us	0.2
		max	%Us	0.55
	of 50/60Hz coil powered at 60Hz		,,,,	
	pick-up			
	pick up	min	%Us	0.85
			%Us	1.1
	drop out	max	/008	1.1
	drop-out	min	0/110	0.4
		min	%Us	
		max	%Us	0.55
	of 60Hz coil powered at 60Hz			
	pick-up		0/11	
		min	%Us	0.8
		max	%Us	1.1
	drop-out			
		min	%Us	0.2
		max	%Us	0.55
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	200
		holding	VA	18
	of 50/60Hz coil powered at 60Hz			
		in-rush	VA	200
		holding	VA	15
	of 60Hz coil powered at 60Hz	riolaling	٧, ١	10
	of our 12 con powered at our 12	in-rush	VA	220
			VA VA	18
Dissipation at halding	<00°C FOLL-	holding		
Dissipation at holding	S20 C 50H2		W	6
DC coil operating DC operating voltage				
DC operating voltage				
	2000			
Average coil consuption	on ≤20°C			
	on ≤20°C	in-rush	W	45
Average coil consuption	on ≤20°C	in-rush holding	W W	45 75
	on ≤20°C		W	75
Average coil consuption				75
Average coil consuption Max cycles frequency			W	75
Average coil consuption Max cycles frequency Mechanical operations			W	75
Max cycles frequency Mechanical operations Operating times			W	75
Max cycles frequency Mechanical operations Operating times	ontrol in AC		W	75
Max cycles frequency Mechanical operations Operating times	ontrol	holding	W Cycles/h	75 3600
Max cycles frequency Mechanical operations Operating times	ontrol in AC	holding	W Cycles/h ms	75 3600
Max cycles frequency Mechanical operations Operating times	ontrol in AC Closing NO	holding	W Cycles/h	75 3600
Max cycles frequency Mechanical operations Operating times	ontrol in AC	holding min max	W Cycles/h ms ms	75 3600 13 28
Max cycles frequency Mechanical operations Operating times	ontrol in AC Closing NO	min max min	W Cycles/h ms ms ms	75 3600 13 28 6
Max cycles frequency Mechanical operations Operating times	ontrol in AC Closing NO Opening NO	holding min max	W Cycles/h ms ms	75 3600 13 28
Max cycles frequency Mechanical operations Operating times	ontrol in AC Closing NO Opening NO in DC	min max min	W Cycles/h ms ms ms	75 3600 13 28 6
Max cycles frequency Mechanical operations Operating times	ontrol in AC Closing NO Opening NO	min max min max	W Cycles/h ms ms ms	75 3600 13 28 6 19
Max cycles frequency Mechanical operations Operating times	ontrol in AC Closing NO Opening NO in DC	min max min max	W Cycles/h ms ms ms ms	75 3600 13 28 6 19
Max cycles frequency Mechanical operations Operating times	ontrol in AC Closing NO Opening NO in DC Closing NO	min max min max	W Cycles/h ms ms ms	75 3600 13 28 6 19
Max cycles frequency Mechanical operations Operating times	ontrol in AC Closing NO Opening NO in DC	min max min max	W Cycles/h ms ms ms ms ms	75 3600 13 28 6 19
Max cycles frequency Mechanical operations Operating times	ontrol in AC Closing NO Opening NO in DC Closing NO	min max min max min max min max	ms ms ms ms ms	75 3600 13 28 6 19 40 85
Max cycles frequency Mechanical operations Operating times Average time for Us co	ontrol in AC Closing NO Opening NO in DC Closing NO	min max min max	W Cycles/h ms ms ms ms ms	75 3600 13 28 6 19
Max cycles frequency Mechanical operations Operating times Average time for Us co	ontrol in AC Closing NO Opening NO in DC Closing NO Opening NO	min max min max min max min max	ms ms ms ms ms	75 3600 13 28 6 19 40 85
Max cycles frequency Mechanical operations Operating times Average time for Us co	ontrol in AC Closing NO Opening NO in DC Closing NO	min max min max min max min max	ms ms ms ms ms	75 3600 13 28 6 19 40 85
Max cycles frequency Mechanical operations Operating times Average time for Us co	ontrol in AC Closing NO Opening NO in DC Closing NO Opening NO	min max min max min max min max	ms ms ms ms ms	75 3600 13 28 6 19 40 85
Max cycles frequency Mechanical operations Operating times Average time for Us co	ontrol in AC Closing NO Opening NO in DC Closing NO Opening NO	min max min max min max min max	W Cycles/h ms ms ms ms ms ms	75 3600 13 28 6 19 40 85 20 55



ENERGY AND AUTOMATION

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

Yielded mechanica	l performance			
	for three-phase AC motor			
		at 200/208V	hp	10
		at 220/230V	hp	15
		at 460/480V	hp	30
		at 575/600V	hp	40
General USE				
	Contactor			
		AC current	Α	90
Other features				
Pollution degree				3
Certifications and c	compliance			
Certifications				
	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			
Compliance				
•	CCC			
	CSA			
	cULus			
	EAC			
ETIM 6 classification				

EC000066 - Power contactor, AC switching