ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 110A, AC COIL 50/60HZ,



Product designation Product type designation			Power contactor 11BF110
Contact characteristics			
Number of poles		nr.	3
Rated insulation voltage Ui		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operating frequency			
	ional frequency min	Hz	25
•	onal frequency max	Hz	400
Conventional free air thermal current Ith	, ,	Α	125
Operating current			
, •	urrent AC1 (≤40°C)	Α	125
Operational current A	` '	Α	110
Rated operational power AC1 (T≤40°C)	,		
	230V	kW	47
	400V	kW	82
	500V	kW	108
	690V	kW	128
Rated operational power AC3 (T≤55°C)			
	230V	kW	33
	400V	kW	61
	415V	kW	66
	440V	kW	70
	500V	kW	59
	690V	kW	80
	1000V	kW	45
Short-time allowable current for 10s (IEC/EN60947-1)		Α	880
Protection fuse			
	gG (IEC)	Α	160
	aM (IEC)	Α	125
Making capacity (RMS value)		Α	1200
Breaking capacity at voltage			
	king capacity 440V	Α	1200
	king capacity 500V	Α	1050
	king capacity 690V	Α	800
Resistance per pole (average value)		mΩ	0.6
Power dissipation per pole (average value)			
Power dissipation pole	, -	W	9.4
	AC3	W	7.3
Tightening torque for terminals			
	min	Nm	4
	max	Nm	5
	min	lbft	2.95
Tightening torque for coil terminal	max	lbft	3.7



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		min	Nm	0.8
		max	Nm	1
		min	lbft	0.8
		max	lbft	0.74
max number of wires	max number of wires simultaneously connectable		nr.	1
Conductor section				_
	AWG			
		min		14
		max		2/0
	Flexible w/o lug conductor section			
	S	min	mm²	6
		max	mm²	50
	Flexible c/w lug conductor section			
	· · · · · · · · · · · · · · · · · · ·	min	mm²	6
		max	mm²	50
Power terminal protect	etion according to IEC/EN 60529			IP20 front
Auxiliary contact chara				II 20 IIOIR
Operational current A			А	125
Operating current DC				120
Operating current DC	15			Screw / DIN rail
		110V	Α	35mm
Ambient conditions				3311111
Temperature				
remperature	Operating temperature			
	Operating temperature	min	°C	-50
			°C	
	Otana na tamana matuma	max	<u> </u>	70
	Storage temperature		۰.	00
		min	°C	-60
NA ICC I		max	°C	80
Max altitude			m	3000
Operating position				
		normal		Vertical plan
-		allowable		±30°
Mounting				Screw / DIN rail
				35mm
Weight			g	1.37
Operations				
Mechanical life			Cycles	15000000
Electrical life			Cycles	800000
Safety related data				
Performance level B1	0d according to EN/ISO 13489-1			
		rated load	Cicli	800000
		mechanical load	Cicli	15000000
Mirror contats accordi	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			
	ριοίτ αρ	min	%Us	0.8
		max	%Us	1.1
	drop-out	IIIdX	/003	1.1
	drop-out	min	%Us	0.2
		min	%Us %Us	0.2
		max	/ ₀ US	บ.บบ



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	of 50/001 = ooil no	wared at COLL			
	of 50/60Hz coil po				
		pick-up	_		
			min	%Us	0.85
			max	%Us	1.1
		drop-out			
			min	%Us	0.4
			max	%Us	0.55
	of 60Hz coil power	red at 60Hz		7000	0.00
	or our iz con power				
		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					
710 operating ventage	of 50/60Hz coil no	world at 50Hz			
	of 50/60Hz coil po	WEIGU AL JUNZ		1//	200
			in-rush	VA	200
			holding	VA	18
	of 50/60Hz coil po	wered at 60Hz			
			in-rush	VA	200
			holding	VA	15
	of 60Hz coil power	red at 60Hz			
	0. 001.12 0011 power	. 0	in-rush	VA	220
	10000 5011		holding	VA	18
	くついっし といロュ			W	6
Dissipation at holding				• • •	
Max cycles frequency					
				Cycles/h	
Max cycles frequency Mechanical operations					
Max cycles frequency Mechanical operations Operating times	5				
Max cycles frequency Mechanical operations Operating times	ontrol				
Max cycles frequency Mechanical operations Operating times	5	Clasing NO			
Max cycles frequency Mechanical operations Operating times	ontrol	Closing NO		Cycles/h	3600
Max cycles frequency Mechanical operations Operating times	ontrol	Closing NO	min	Cycles/h	3600
Max cycles frequency Mechanical operations Operating times	ontrol	-		Cycles/h	3600
Max cycles frequency Mechanical operations Operating times	ontrol	Closing NO Opening NO	min	Cycles/h	3600
Max cycles frequency Mechanical operations Operating times	ontrol	-	min	Cycles/h	3600
Max cycles frequency Mechanical operations Operating times	ontrol	-	min max min	Cycles/h ms ms ms	13 28 6
Max cycles frequency Mechanical operations Operating times	ontrol in AC	-	min max	Cycles/h ms ms	13 28
Max cycles frequency Mechanical operations Operating times	ontrol	Opening NO	min max min	Cycles/h ms ms ms	13 28 6
Max cycles frequency Mechanical operations Operating times	ontrol in AC	-	min max min max	ms ms ms ms	13 28 6 19
Max cycles frequency Mechanical operations Operating times	ontrol in AC	Opening NO	min max min max min	ms ms ms ms ms	13 28 6 19
Max cycles frequency Mechanical operations Operating times	ontrol in AC	Opening NO Closing NO	min max min max	ms ms ms ms	13 28 6 19
Max cycles frequency Mechanical operations Operating times	ontrol in AC	Opening NO	min max min max min	ms ms ms ms ms	13 28 6 19
Max cycles frequency Mechanical operations Operating times	ontrol in AC	Opening NO Closing NO	min max min max min	ms ms ms ms ms	13 28 6 19
Max cycles frequency Mechanical operations Operating times	ontrol in AC	Opening NO Closing NO	min max min max min max	ms ms ms ms ms	13 28 6 19 40 85
Max cycles frequency Mechanical operations Operating times Average time for Us c	ontrol in AC	Opening NO Closing NO	min max min max min max min	ms ms ms ms	13 28 6 19
Max cycles frequency Mechanical operations Operating times Average time for Us c	ontrol in AC	Opening NO Closing NO Opening NO	min max min max min max min	ms ms ms ms ms	13 28 6 19 40 85
Max cycles frequency Mechanical operations Operating times Average time for Us c	ontrol in AC	Opening NO Closing NO Opening NO	min max min max min max	ms ms ms ms ms	13 28 6 19 40 85 20 55
Max cycles frequency Mechanical operations Operating times Average time for Us c	ontrol in AC	Opening NO Closing NO Opening NO	min max min max min max at 480V	ms ms ms ms ms	13 28 6 19 40 85 20 55
Max cycles frequency Mechanical operations Operating times Average time for Us c UL technical data Full-load current (FLA	ontrol in AC in DC for three-phase AC	Opening NO Closing NO Opening NO	min max min max min max	ms ms ms ms ms	13 28 6 19 40 85 20 55
Max cycles frequency Mechanical operations Operating times Average time for Us c UL technical data Full-load current (FLA	ontrol in AC in DC for three-phase AC	Opening NO Closing NO Opening NO	min max min max min max at 480V	ms ms ms ms ms	13 28 6 19 40 85 20 55
Max cycles frequency Mechanical operations Operating times Average time for Us c UL technical data Full-load current (FLA	ontrol in AC in DC for three-phase AC	Opening NO Closing NO Opening NO motor	min max min max min max at 480V	ms ms ms ms ms	13 28 6 19 40 85 20 55
Max cycles frequency Mechanical operations Operating times Average time for Us c UL technical data Full-load current (FLA	ontrol in AC in DC for three-phase AC erformance	Opening NO Closing NO Opening NO motor	min max min max min max at 480V at 600V	ms ms ms ms ms ms	13 28 6 19 40 85 20 55
Max cycles frequency Mechanical operations Operating times Average time for Us c UL technical data Full-load current (FLA	ontrol in AC in DC for three-phase AC erformance	Opening NO Closing NO Opening NO motor	min max min max min max min max at 480V at 600V	ms ms ms ms ms A A	13 28 6 19 40 85 20 55
Max cycles frequency Mechanical operations Operating times	ontrol in AC in DC for three-phase AC erformance	Opening NO Closing NO Opening NO motor	min max min max min max min max at 480V at 600V at 200/208V at 220/230V	ms ms ms ms ms hp hp	13 28 6 19 40 85 20 55 96 99
Max cycles frequency Mechanical operations Operating times Average time for Us c UL technical data Full-load current (FLA	ontrol in AC in DC for three-phase AC erformance	Opening NO Closing NO Opening NO motor	min max min max min max min max at 480V at 600V	ms ms ms ms ms A A	13 28 6 19 40 85 20 55

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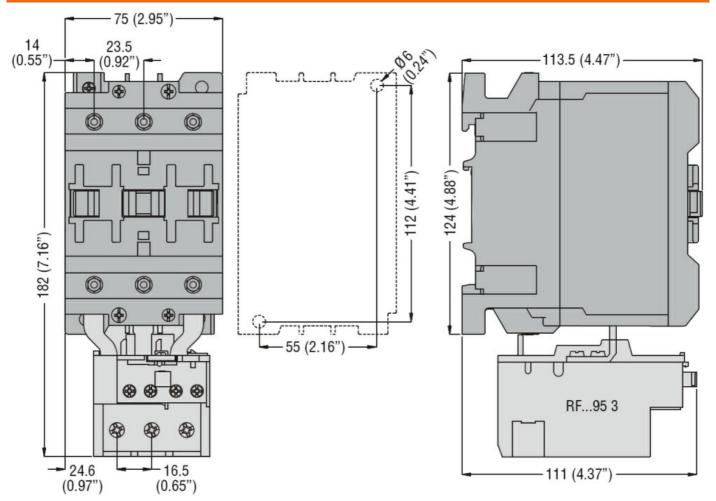
Contactor

AC current A 125

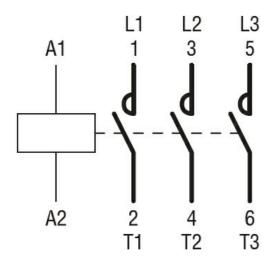
Other features

Pollution degree 3

Dimensions



Wiring diagrams



Certifications and compliance

Certifications

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1





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	IEC/EN 60947-1
	IEC/EN 60947-4-1
	UL 60947-1
	UL 60947-4-1
Compliance	
	CCC
	cULus
	EAC

ETIM 6 classification

EC000066 - Power contactor, AC switching