11BF11000400



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 110A, AC COIL 50/60HZ, 400VAC



Product designation			Power contactor
Product type designation			11BF110
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		А	125
Operating current			
	Operational current AC1 (≤40°C)	А	125
	Operational current AC3 (≤440V ≤55°C)	А	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/EN		A	880
Protection fuse			
	gG (IEC)	А	160
	aM (IEC)	A	125
Making capacity (RMS value)		A	1200
Breaking capacity at voltage		7.	1200
Breaking suparity at voltage	Breaking capacity 440V	А	1200
	Breaking capacity 500V	A	1050
	Breaking capacity 690V	A	800
Resistance per pole (average value)	Dreaking capacity 000 V	mΩ	0.6
Power dissipation per pole (average value)		11132	0.0
i ower dissipation per pole (average value)	Power dissipation pole (average value) Ith	W	9.4
	AC3	W	9.4 7.3
Tightening torque for terminals	AC3	vv	1.0
rightening torque for terminals	min	Nm	1
	min	Nm Nm	4 5
	max	lbft	
	min		2.95
	max	lbft	3.7

Tightening torque for coil terminal



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		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			
		min	mm²	6
		max	mm²	50
	Flexible c/w lug conductor section			
		min	mm²	6
		max	mm²	50
	tion according to IEC/EN 60529			IP20 front
Auxiliary contact chara				
Operational current AC			A	125
Operating current DC ²	13	110V	A	Screw / DIN rail 35mm
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
	2	min	°C	-60
		max	°C	80
Max altitude			m	3000
Operating position				
		normal		Vertical plan
		allowable		±30°
Mounting				Screw / DIN rail 35mm
Weight			g	1352
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
	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		0/11	
		min	%Us	0.2
		max	%Us	0.55

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	of 50/60Hz coil po	owered at 60Hz			
	·	pick-up			
			min	%Us	0.85
			max	%Us	1.1
		drop-out	Παλ	,003	
		ulop-out	min	%Us	0.4
			min		
			max	%Us	0.55
	of 60Hz coil powe				
		pick-up			
			min	%Us	0.8
			max	%Us	1.1
		drop-out			
			min	%Us	0.2
			max	%Us	0.55
AC operating valtage			Παλ	/003	0.00
AC operating voltage		evered of COLL-			
	of 50/60Hz coil po	owered at 50Hz			
			in-rush	VA	200
			holding	VA	18
	of 50/60Hz coil po	owered at 60Hz			
			in-rush	VA	200
			holding	VA	15
	of 60Hz coil powe	ered at 60Hz			-
			in-rush	VA	220
	-00%0 50!!		holding	VA	18
Dissipation at holding	≤20°C 50HZ			W	6
Max cycles frequency					
Mechanical operations	5			Cycles/h	n 3600
Operating times					
Average time for Lle e	-				
Average time for US co	ontrol				
Average time for US co	ontrol in AC				
Average time for US co		Closing NO			
Average time for US co		Closing NO	min	ms	13
Average time for US co		Closing NO	min max	ms ms	13 28
Average time for US co		-	min max	ms ms	13 28
Average time for US co		Closing NO Opening NO	max	ms	28
Average time for US co		-	max min	ms ms	28 6
Average time for US co	in AC	-	max	ms	28
Average time for US co		Opening NO	max min	ms ms	28 6
Average time for US co	in AC	-	max min	ms ms	28 6
Average time for US co	in AC	Opening NO	max min	ms ms	28 6
Average time for US ca	in AC	Opening NO	max min max	ms ms ms	28 6 19 40
Average time for Us co	in AC	Opening NO Closing NO	max min max min	ms ms ms	28 6 19
Average time for US ca	in AC	Opening NO	max min max min max	ms ms ms ms	28 6 19 40 85
Average time for US ca	in AC	Opening NO Closing NO	max min max min max min	ms ms ms ms ms	28 6 19 40 85 20
	in AC	Opening NO Closing NO	max min max min max	ms ms ms ms	28 6 19 40 85
UL technical data	in AC	Opening NO Closing NO Opening NO	max min max min max min	ms ms ms ms ms	28 6 19 40 85 20
UL technical data	in AC	Opening NO Closing NO Opening NO	max min max min max min max	ms ms ms ms ms ms	28 6 19 40 85 20 55
UL technical data	in AC	Opening NO Closing NO Opening NO	max min max min max min max at 480V	ms ms ms ms ms ms as	28 6 19 40 85 20 55 96
UL technical data	in AC	Opening NO Closing NO Opening NO	max min max min max min max	ms ms ms ms ms ms	28 6 19 40 85 20 55
UL technical data Full-load current (FLA)	in AC in DC	Opening NO Closing NO Opening NO	max min max min max min max at 480V	ms ms ms ms ms ms as	28 6 19 40 85 20 55 96
UL technical data Full-load current (FLA)	in AC	Opening NO Closing NO Opening NO	max min max min max min max at 480V	ms ms ms ms ms ms as	28 6 19 40 85 20 55 96
UL technical data Full-load current (FLA)	in AC in DC	Opening NO Closing NO Opening NO	max min max min max min max at 480V at 600V	ms ms ms ms ms ms A A	28 6 19 40 85 20 55 96 99
UL technical data Full-load current (FLA)	in AC	Opening NO Closing NO Opening NO	max min max min max min max at 480V at 600V at 200/208V	ms ms ms ms ms A A A	28 6 19 40 85 20 55 96 99 30
UL technical data Full-load current (FLA) Yielded mechanical pe	in AC	Opening NO Closing NO Opening NO	max min max min max min max at 480V at 600V at 200/208V at 220/230V	ms ms ms ms ms A A A	28 6 19 40 85 20 55 96 99 99 30 40
UL technical data Full-load current (FLA)	in AC	Opening NO Closing NO Opening NO	max min max min max min max at 480V at 600V at 220/208V at 220/230V at 460/480V	ms ms ms ms ms ms A A A hp	28 6 19 40 85 20 55 96 99 99 30 40 75
<mark>JL technical data</mark> Full-load current (FLA)	in AC	Opening NO Closing NO Opening NO	max min max min max min max at 480V at 600V at 200/208V at 220/230V	ms ms ms ms ms A A A	28 6 19 40 85 20 55 96 99 99 30 40

General USE

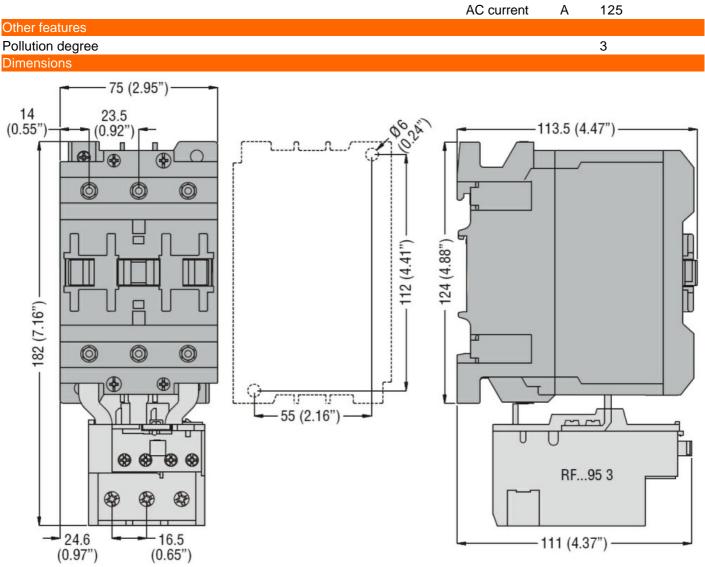
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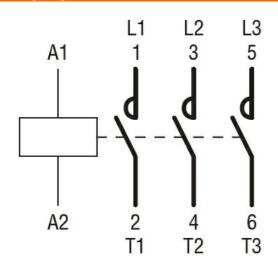
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400VAC





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

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