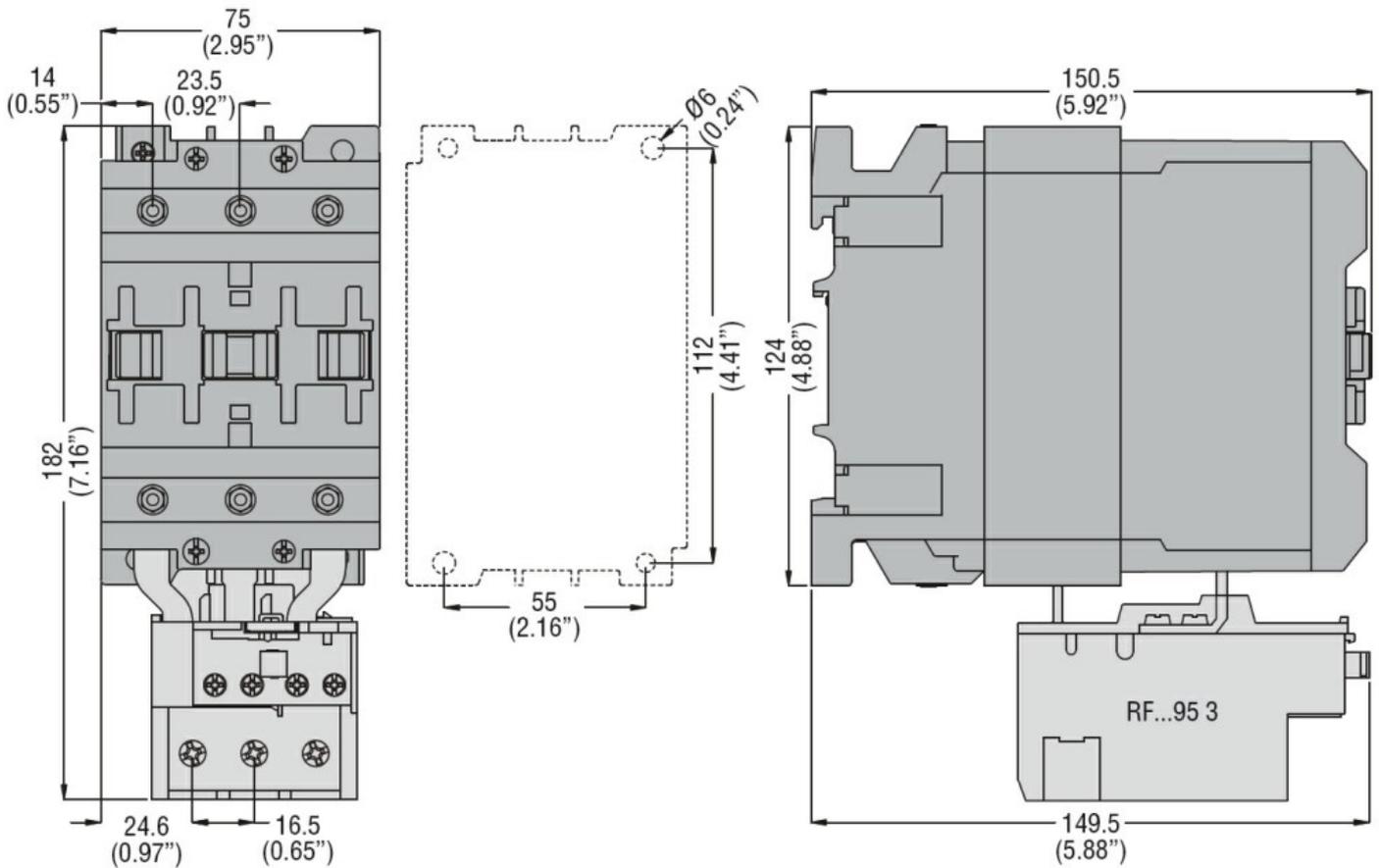




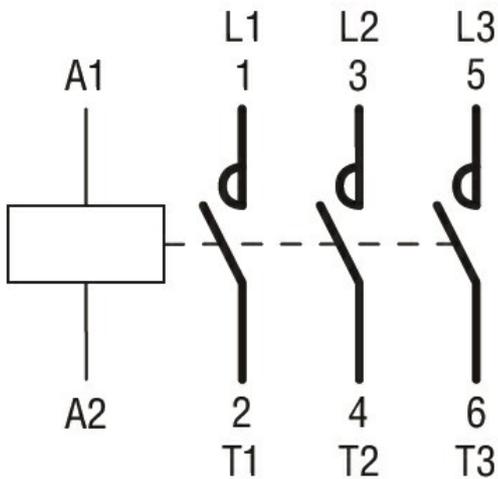
Product designation				Power contactor
Product type designation				11BF110
<b>Contact characteristics</b>				
Number of poles	nr.			3
Rated insulation voltage $U_i$	V			1000
Rated impulse withstand voltage $U_{imp}$	kV			8
Operating frequency	Operational frequency min	Hz	25	
	Operational frequency max	Hz	400	
	Conventional free air thermal current $I_{th}$	A	125	
Operating current	Operational current AC1 ( $\leq 40^\circ\text{C}$ )	A	125	
	Operational current AC3 ( $\leq 440\text{V} \leq 55^\circ\text{C}$ )	A	110	
	Rated operational power AC1 ( $T \leq 40^\circ\text{C}$ )	230V	kW	47
400V		kW	82	
500V		kW	108	
690V		kW	128	
Rated operational power AC3 ( $T \leq 55^\circ\text{C}$ )	230V	kW	33	
	400V	kW	61	
	415V	kW	66	
	440V	kW	70	
	500V	kW	59	
	690V	kW	80	
Short-time allowable current for 10s (IEC/EN60947-1)	1000V	kW	45	
		A	880	
Protection fuse	gG (IEC)	A	160	
	aM (IEC)	A	125	
Making capacity (RMS value)		A	1200	
Breaking capacity at voltage	Breaking capacity 440V	A	1200	
	Breaking capacity 500V	A	1050	
	Breaking capacity 690V	A	800	
Resistance per pole (average value)		m $\Omega$	0.6	
Power dissipation per pole (average value)	Power dissipation pole (average value) $I_{th}$	W	9.4	
	AC3	W	7.3	
Tightening torque for terminals	min	Nm	4	
	max	Nm	5	
	min	lbft	2.95	
	max	lbft	3.7	
Tightening torque for coil terminal				

		min	Nm	0.8
		max	Nm	1
		min	lbft	0.8
		max	lbft	0.74
<hr/>				
max number of wires simultaneously connectable			nr.	1
<hr/>				
Conductor section				
	AWG			
		min		14
		max		2/0
<hr/>				
Flexible w/o lug conductor section				
		min	mm <sup>2</sup>	6
		max	mm <sup>2</sup>	50
<hr/>				
Flexible c/w lug conductor section				
		min	mm <sup>2</sup>	6
		max	mm <sup>2</sup>	50
<hr/>				
Power terminal protection according to IEC/EN 60529				IP20 front
<hr/>				
<b>Auxiliary contact characteristics</b>				
Operational current AC1 (≤40°C)				A 125
<hr/>				
Operating current DC13				
		110V	A	Screw / DIN rail 35mm
<hr/>				
<b>Ambient conditions</b>				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
<hr/>				
	Storage temperature			
		min	°C	-60
		max	°C	80
<hr/>				
Max altitude				m 3000
<hr/>				
Operating position				
		normal allowable		Vertical plan ±30°
<hr/>				
Mounting				Screw / DIN rail 35mm
<hr/>				
Weight				g 1.84
<hr/>				
<b>Operations</b>				
Mechanical life				Cycles 15000000
Electrical life				Cycles 800000
<hr/>				
<b>Safety related data</b>				
Performance level B10d according to EN/ISO 13489-1				
		rated load mechanical load	Cicli Cicli	800000 15000000
<hr/>				
Mirror contacts according to IEC/EN 60947-4-1				yes
EMC compatibility				yes
<hr/>				
<b>DC coil operating</b>				
DC rated control voltage				
		min	V	12
<hr/>				
DC operating voltage				
	pick-up			
		min	%Us	0.8
		max	%Us	1.10
<hr/>				
	drop-out			

		min	%Us	0.1
		max	%Us	0.25
Average coil consumption ≤20°C				
		in-rush	W	15
		holding	W	15
<b>Max cycles frequency</b>				
Mechanical operations				Cycles/h 3600
<b>Operating times</b>				
Average time for Us control				
	in DC			
		Closing NO		
		min	ms	40
		max	ms	85
		Opening NO		
		min	ms	20
		max	ms	55
<b>UL technical data</b>				
Full-load current (FLA) for three-phase AC motor				
		at 480V	A	96
		at 600V	A	99
Yielded mechanical performance				
	for three-phase AC motor			
		at 200/208V	hp	30
		at 220/230V	hp	40
		at 460/480V	hp	75
		at 575/600V	hp	100
General USE				
	Contactor			
		AC current	A	125
<b>Other features</b>				
Pollution degree				3
<b>Dimensions</b>				



### Wiring diagrams



### Certifications and 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  
 cULus

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EAC

ETIM 6 classification

EC000066 - Power contactor, AC switching