



Product designation		Power contactor	
Product type designation		11BF110	
Contact characteristics			
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operational frequency			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		A	125
Operational current Ie			
	AC-1 (=40°C)	A	125
	AC-3 (=440V =55°C)	A	110
Rated operational power AC-1 (T=40°C)			
	230V	kW	47
	400V	kW	82
	500V	kW	108
	690V	kW	128
Short-time allowable current for 10s (IEC/EN60947-1)		A	880
Protection fuse			
	gG (IEC)	A	160
	aM (IEC)	A	125
Making capacity (RMS value)		A	1200
Breaking capacity at voltage			
	440V	A	1200
	500V	A	1050
	690V	A	800
Resistance per pole (average value)		m?	0.6
Power dissipation per pole (average value)			
	Ith	W	9.4
	AC3	W	7.3
Tightening torque for terminals			
	min	Nm	4
	max	Nm	5
	min	Ibin	2.95
	max	Ibin	3.7
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	0.8
	max	Ibin	0.74
Max number of wires simultaneously connectable		Nr.	1
Conductor section			
	AWG/Kcmil		
	max		2/0

Flexible w/o lug conductor section

min	mm ²	6
max	mm ²	50

Flexible c/w lug conductor section

min	mm ²	6
max	mm ²	50

Power terminal protection according to IEC/EN 60529

IP20 front

Mechanical features

Operating position

normal allowable	Vertical plan ±30°
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Fixing

Screw / DIN rail
35mm

Weight

g 1358

Conductor section

AWG/kcmil conductor section

max	2/0
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Operations

Mechanical life

cycles	15000000
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Electrical life

cycles	800000
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Safety related data

Performance level B10d according to EN/ISO 13489-1

rated load	cycles	800000
mechanical load	cycles	15000000

Mirror contacts according to IEC/EN 60947-4-1

yes

EMC compatibility

yes

AC coil operating

AC operating voltage

of 60Hz coil powered at 60Hz
pick-up

min	%Us	80
max	%Us	110

drop-out

min	%Us	20
max	%Us	55

AC average coil consumption at 20°C

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

in-rush	VA	220
holding	VA	18

Dissipation at holding =20°C 50Hz

W	6
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Max cycles frequency

Mechanical operation

cycles/h	3600
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Operating times

Average time for Us control

in AC

Closing NO

min	ms	13
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in DC	Opening NO	max	ms	28
		min	ms	6
		max	ms	19
	Closing NO	min	ms	40
		max	ms	85
	Opening NO	min	ms	20
		max	ms	55

UL technical data

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

200/208V	HP	30
220/230V	HP	40
460/480V	HP	75
575/600V	HP	100

General USE

Contactor

AC current	A	125
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Ambient conditions

Temperature

Operating temperature

min	°C	-50
max	°C	70

Storage temperature

min	°C	-60
max	°C	80

Max altitude

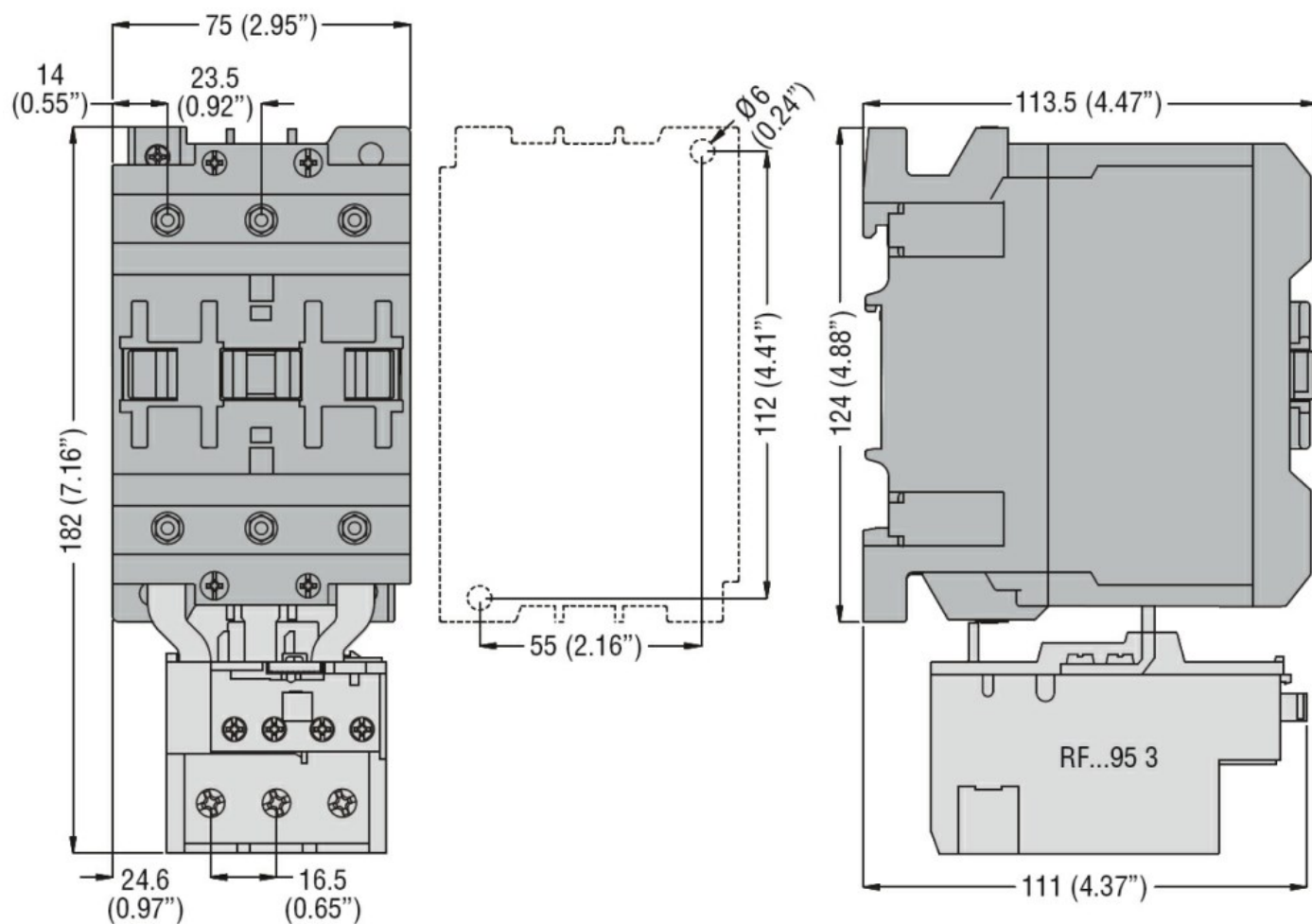
m	3000
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Resistance & Protection

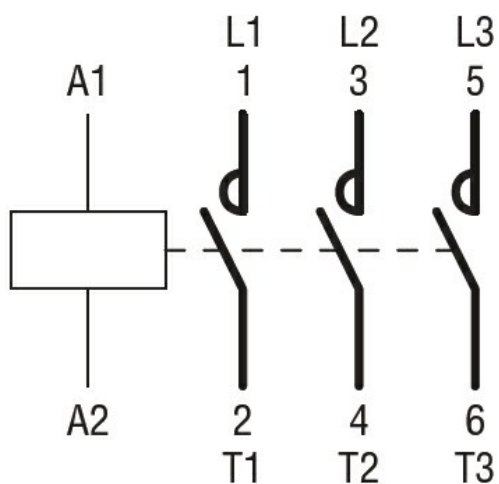
Pollution degree

3

Dimensions



Wiring diagrams



Certifications and compliance

Compliance

CSA C22.2 n° 60947-1
CSA C22.2 n° 60947-4-1
IEC/EN 60947-1
IEC/EN 60947-4-1
UL 60947-1
UL 60947-4-1

Certificates

CCC

cULus

EAC

ETIM classification

ETIM 8.0

EC000066 -
Power contactor,
AC switching