

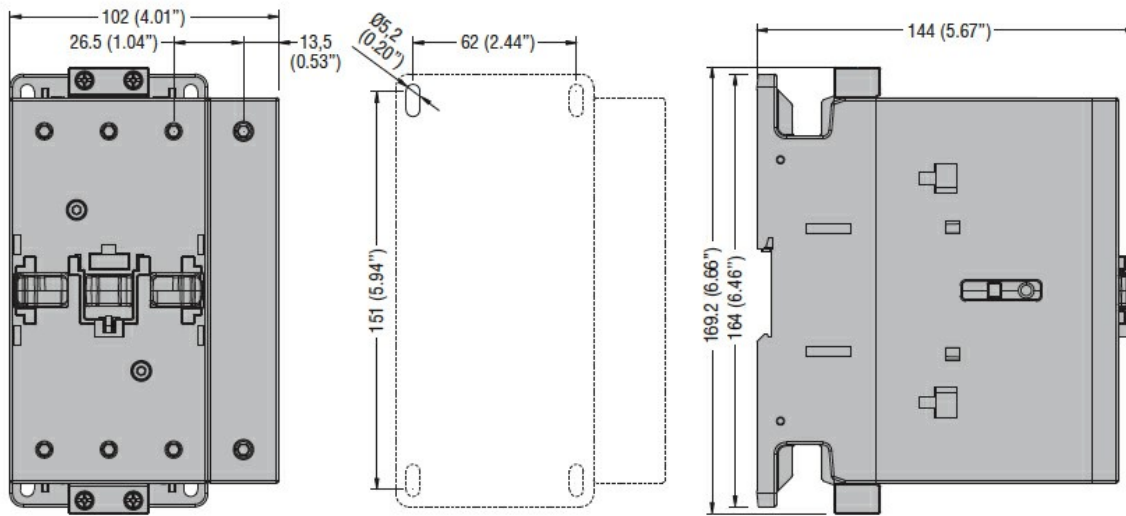


Product designation				Power contactor
Product type designation				BF95
Contact characteristics				
Number of poles	Nr.			4
Rated insulation voltage U _i IEC/EN	V			1000
Rated impulse withstand voltage U _{imp}	kV			8
Operational frequency	min	Hz	25	
	max	Hz	400	
IEC Conventional free air thermal current I _{th}	A			140
Operational current I _e	AC-1 (≤40°C)	A	140	
	AC-1 (≤55°C)	A	115	
	AC-1 (≤70°C)	A	100	
	AC-3 (≤440V ≤55°C)	A	95	
	AC-4 (400V)	A	45	
Rated operational current AC-3 (T≤55°C)	230V	A	95	
	400V	A	95	
	415V	A	95	
	440V	A	95	
	500V	A	95	
	690V	A	93	
	1000V	A	33	
IEC max current I _e in DC1 with L/R ≤ 1ms with 1 poles in series	≤24V	A	140	
	48V	A	140	
	75V	A	100	
	110V	A	10	
	220V	A	–	
	IEC max current I _e in DC1 with L/R ≤ 1ms with 2 poles in series	≤24V	A	140
48V		A	140	
75V		A	140	
110V		A	110	
220V		A	12	
IEC max current I _e in DC1 with L/R ≤ 1ms with 3 poles in series		≤24V	A	140
	48V	A	140	
	75V	A	155	
	110V	A	120	
	220V	A	125	
	IEC max current I _e in DC1 with L/R ≤ 1ms with 4 poles in series	≤24V	A	140
48V		A	140	

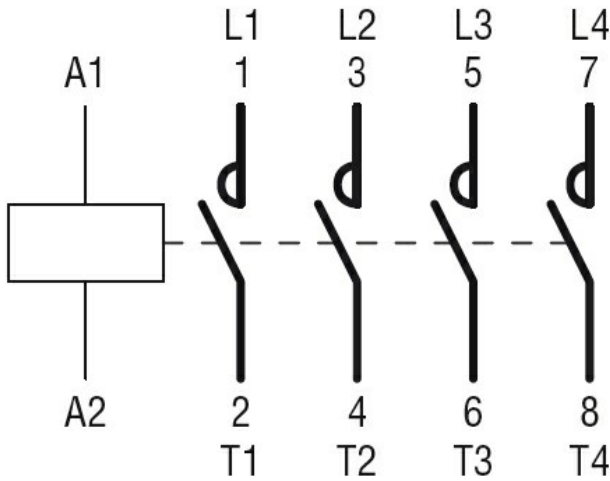
	75V	A	155
	110V	A	140
	220V	A	140
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IEC max current I _e in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	A	140
	48V	A	44
	75V	A	36
	110V	A	6
	220V	A	–
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IEC max current I _e in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	A	140
	48V	A	63
	75V	A	60
	110V	A	55
	220V	A	7
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IEC max current I _e in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	≤24V	A	140
	48V	A	115
	75V	A	90
	110V	A	85
	220V	A	76
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IEC max current I _e in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	A	140
	48V	A	110
	75V	A	110
	110V	A	105
	220V	A	95
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Short-time allowable current for 10s (IEC/EN60947-1)		A	760
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Protection fuse			
	gG (IEC)	A	160
	aM (IEC)	A	100
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Making capacity (RMS value)		A	1200
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Breaking capacity at voltage			
	440V	A	1100
	500V	A	775
	690V	A	745
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Resistance per pole (average value)		mΩ	0.45
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Power dissipation per pole (average value)			
	I _{th}	W	8.8
	AC-3	W	4.1
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Tightening torque for terminals			
	min	Nm	6
	max	Nm	7
	min	lbin	4.4
	max	lbin	5.2
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Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbin	0.59
	max	lbin	0.74
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Conductor section			
	AWG/Kcmil		
	max		2/0

Flexible w/o lug conductor section	min	mm ²	1.5
	max	mm ²	70
Flexible c/w lug conductor section	min	mm ²	1.5
	max	mm ²	70
Power terminal protection according to IEC/EN 60529			IP20 front
Mechanical features			
Operating position	normal allowable		Vertical plan ±30°
Fixing			Screw / DIN rail 35mm
Weight		g	2460
Conductor section	AWG/kcmil conductor section		
	max		2/0
Auxiliary contact characteristics			
Thermal current I _{th}		A	140
Operations			
Mechanical life		cycles	15000000
Electrical life		cycles	1400000
AC coil operating			
Rated AC voltage at 50/60Hz, 60Hz	min	V	60
	max	V	110
AC operating voltage	of 50/60Hz coil powered at 50Hz		
	pick-up		
	min	%Us	80 Us min
	max	%Us	110 Us max
	drop-out		
	max	%Us	≤70 Us min
	of 50/60Hz coil powered at 60Hz		
	pick-up		
	min	%Us	80 Us min
	max	%Us	110 Us max
	drop-out		
	max	%Us	≤70 Us min
AC average coil consumption at 20°C	of 50/60Hz coil powered at 50Hz		
	in-rush	VA	70...175
	holding	VA	1.7...3.5
	of 50/60Hz coil powered at 60Hz		
	in-rush	VA	70...175
	holding	VA	1.7...3.5
	of 60Hz coil powered at 60Hz		
	in-rush	VA	70...175
	holding	VA	1.7...3.5
Dissipation at holding ≤20°C 50Hz		W	1.3...1,5
DC coil operating			
DC rated control voltage	min	V	60
	max	V	110

DC operating voltage			
pick-up	min	%Us	80 Us min
	max	%Us	110 Us max
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drop-out	max	%Us	≤70 Us min
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Average coil consumption ≤20°C			
	in-rush	W	70...80
	holding	W	1.3...1.5
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Max cycles frequency			
Mechanical operation		cycles/h	1500
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Operating times			
Average time for Us control			
in AC			
Closing NO	min	ms	45
	max	ms	90
Opening NO	min	ms	24
	max	ms	60
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in DC			
Closing NO	min	ms	45
	max	ms	85
Opening NO	min	ms	24
	max	ms	60
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UL technical data			
General USE			
Contactor	AC current	A	150
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Short-circuit protection fuse, 600V			
High fault			
	Short circuit current	kA	100
	Fuse rating	A	200
	Fuse class		J
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Standard fault			
	Short circuit current	kA	10
	Fuse rating	A	250
	Fuse class		RK5
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Ambient conditions			
Temperature			
Operating temperature			
	min	°C	-50
	max	°C	70
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Storage temperature			
	min	°C	-60
	max	°C	+80
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Max altitude		m	3000
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Dimensions			



Wiring diagrams



Certifications and compliance

Compliance

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

Certificates

CCC
cULus
EAC

ETIM classification

ETIM 8.0

EC000066 -
Power contactor,
AC switching