



Product designation	Power contactor		
Product type designation	BF95		
<b>Contact characteristics</b>			
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 ( $\leq 40^\circ C$ )	A	140
	AC-1 ( $\leq 55^\circ C$ )	A	115
	AC-1 ( $\leq 70^\circ C$ )	A	100
	AC-3 ( $\leq 440V \leq 55^\circ C$ )	A	95
	AC-4 (400V)	A	45
IEC max current $I_e$ in DC1 with $L/R \leq 1ms$ with 1 poles in series			
	$\leq 24V$	A	140
	48V	A	140
	75V	A	100
	110V	A	10
	220V	A	—
IEC max current $I_e$ in DC1 with $L/R \leq 1ms$ with 2 poles in series			
	$\leq 24V$	A	140
	48V	A	140
	75V	A	140
	110V	A	110
	220V	A	12
IEC max current $I_e$ in DC1 with $L/R \leq 1ms$ with 3 poles in series			
	$\leq 24V$	A	140
	48V	A	140
	75V	A	155
	110V	A	120
	220V	A	125
IEC max current $I_e$ in DC1 with $L/R \leq 1ms$ with 4 poles in series			
	$\leq 24V$	A	140
	48V	A	140
	75V	A	155
	110V	A	140
	220V	A	140
IEC max current $I_e$ in DC3-DC5 with $L/R \leq 15ms$ with 1 poles in series			
	$\leq 24V$	A	140
	48V	A	44
	75V	A	36
	110V	A	6

	220V	A	—
IEC max current $I_e$ in DC3-DC5 with $L/R \leq 15\text{ms}$ with 2 poles in series	$\leq 24\text{V}$ 48V 75V 110V 220V	A	140 63 60 55 7
IEC max current $I_e$ in DC3-DC5 with $L/R \leq 15\text{ms}$ with 3 poles in series	$\leq 24\text{V}$ 48V 75V 110V 220V	A	140 115 90 85 76
IEC max current $I_e$ in DC3-DC5 with $L/R \leq 15\text{ms}$ with 4 poles in series	$\leq 24\text{V}$ 48V 75V 110V 220V	A	140 110 110 105 95
Short-time allowable current for 10s (IEC/EN60947-1)		A	760
Protection fuse	gG (IEC) aM (IEC)	A	160 100
Making capacity (RMS value)		A	1200
Breaking capacity at voltage	440V 500V 690V	A	1100 775 745
Resistance per pole (average value)		m?	0.45
Power dissipation per pole (average value)	I <sub>th</sub> AC3	W	8.8 4.1
Tightening torque for terminals	min max min max	Nm Nm lbin lbin	6 7 4.4 5.2
Tightening torque for coil terminal	min max min max	Nm Nm lbin lbin	0.8 1 0.59 0.74
Conductor section	AWG/Kcmil	max	2/0
Flexible w/o lug conductor section	min max	mm <sup>2</sup>	1.5 70
Flexible c/w lug conductor section	min max	mm <sup>2</sup>	1.5 70
Power terminal protection according to IEC/EN 60529			IP20 front
Mechanical features			

## Operating position

	normal allowable	Vertical plan ±30°
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Fixing

Weight	g	2460
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## Conductor section

AWG/kcmil conductor section	max	2/0
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## Auxiliary contact characteristics

Thermal current I <sub>th</sub>	A	140
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## Operations

Mechanical life	cycles	15000000
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## Electrical life

cycles	1400000	
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## AC coil operating

Rated AC voltage at 50/60Hz, 60Hz	min	V	20
	max	V	48

Rated AC voltage at 50/60Hz		V	24
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## 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	20

	max	V	48
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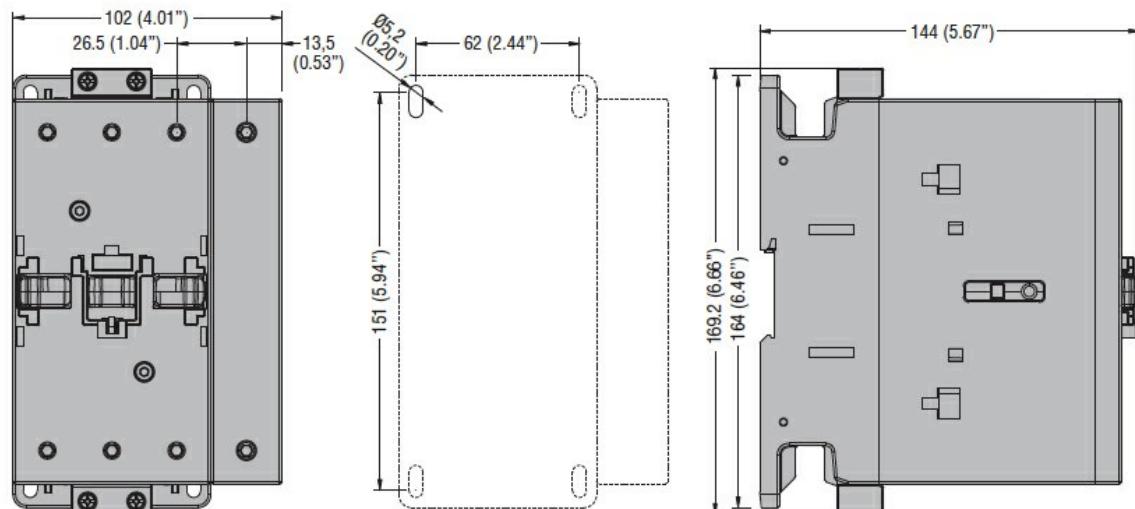
DC rated control voltage			
	V		24

DC operating voltage			
pick-up	min	%Us	85 Us min

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