



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		Screw / DIN rail 35mm
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Weight	g	2420
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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 60Hz	V	460
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## 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 60Hz coil powered at 60Hz	in-rush	VA 300
	holding	VA 20

Dissipation at holding ≤20°C 50Hz	W	6.5
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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 16
	max	ms 32
Opening NO	min	ms 9
	max	ms 24

## UL technical data

## General USE

Contactor	AC current	A	150
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Short-circuit protection fuse, 600V	Short circuit current	kA	100
High fault	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

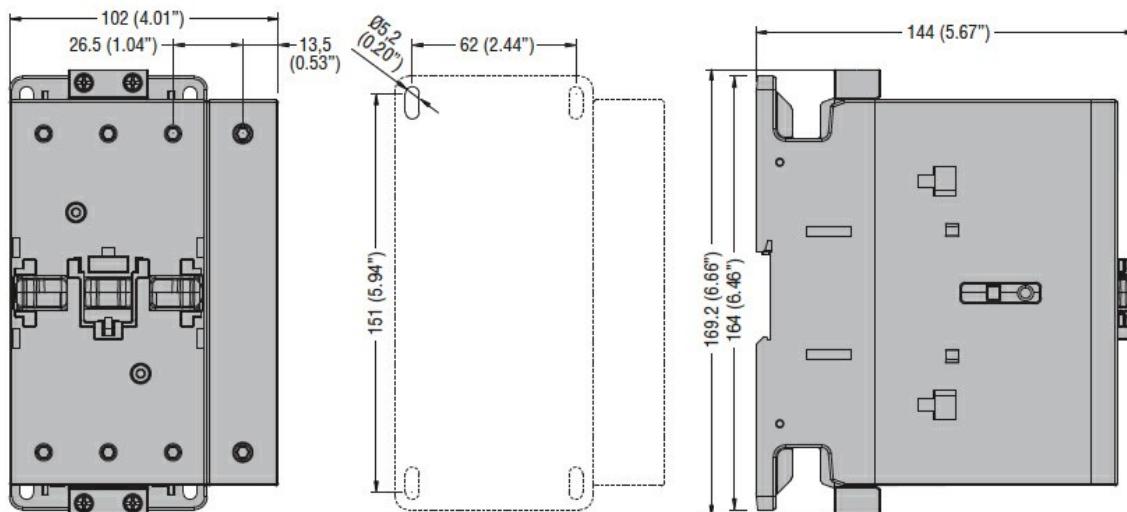
### Storage temperature

	min	°C	-60
	max	°C	+80

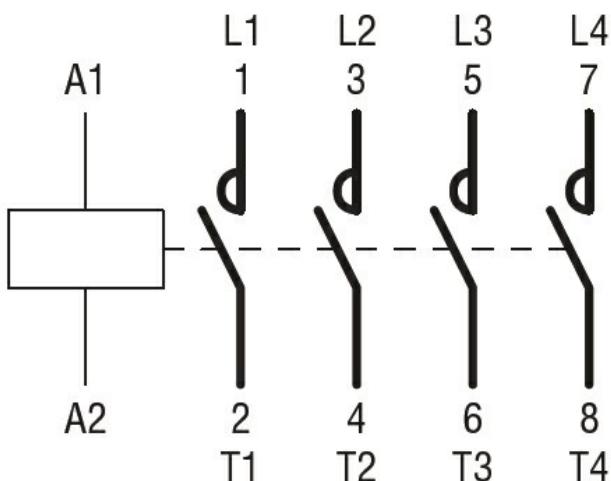
## Max altitude

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