



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 ($\leq 40^{\circ}\text{C}$) A 140 AC-1 ($\leq 55^{\circ}\text{C}$) A 115 AC-1 ($\leq 70^{\circ}\text{C}$) A 100 AC-3 ($\leq 440\text{V} \leq 55^{\circ}\text{C}$) A 95 AC-4 (400V) A 45		
IEC max current I _e in DC1 with L/R $\leq 1\text{ms}$ with 1 poles in series	$\leq 24\text{V}$	A	140
	48V	A	140
	75V	A	100
	110V	A	10
	220V	A	—
IEC max current I _e in DC1 with L/R $\leq 1\text{ms}$ with 2 poles in series	$\leq 24\text{V}$	A	140
	48V	A	140
	75V	A	140
	110V	A	110
	220V	A	12
IEC max current I _e in DC1 with L/R $\leq 1\text{ms}$ with 3 poles in series	$\leq 24\text{V}$	A	140
	48V	A	140
	75V	A	155
	110V	A	120
	220V	A	125
IEC max current I _e in DC1 with L/R $\leq 1\text{ms}$ with 4 poles in series	$\leq 24\text{V}$	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 $\leq 15\text{ms}$ with 1 poles in series	$\leq 24\text{V}$	A	140
	48V	A	44
	75V	A	36
	110V	A	6

	220V	A	–
IEC max current Ie 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
IEC max current Ie 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
IEC max current Ie 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
Short-time allowable current for 10s (IEC/EN60947-1)		A	760
Protection fuse	gG (IEC)	A	160
	aM (IEC)	A	100
Making capacity (RMS value)		A	1200
Breaking capacity at voltage	440V	A	1100
	500V	A	775
	690V	A	745
Resistance per pole (average value)		m?	0.45
Power dissipation per pole (average value)	I _{th}	W	8.8
	AC3	W	4.1
Tightening torque for terminals	min	Nm	6
	max	Nm	7
	min	lbin	4.4
	max	lbin	5.2
Tightening torque for coil terminal	min	Nm	0.8
	max	Nm	1
	min	lbin	0.59
	max	lbin	0.74
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°
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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		
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Thermal current I _{th}	A	140
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Operations		
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Mechanical life	cycles	15000000
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Electrical life	cycles	1400000
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AC coil operating		
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Rated AC voltage at 50/60Hz	V	400
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AC operating voltage		
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of 50/60Hz coil powered at 50Hz

pick-up

	min	%Us	80
	max	%Us	110
drop-out			
	min	%Us	20
	max	%Us	55

of 50/60Hz coil powered at 60Hz

pick-up

	min	%Us	85
	max	%Us	110
drop-out			
	min	%Us	40
	max	%Us	55

AC average coil consumption at 20°C		
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of 50/60Hz coil powered at 50Hz

in-rush
holding

VA
VA

300

20

of 50/60Hz coil powered at 60Hz		
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in-rush
holding

VA
VA

275

17

of 60Hz coil powered at 60Hz		
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in-rush
holding

VA
VA

300

20

Dissipation at holding ≤20°C 50Hz		
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W

6.5

Max cycles frequency		
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Mechanical operation		
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cycles/h

1500

Operating times		
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Average time for Us control		
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in AC

Closing NO

min
max

ms

16

ms

32

Opening NO

min
max

ms

9

ms

24

UL technical data		
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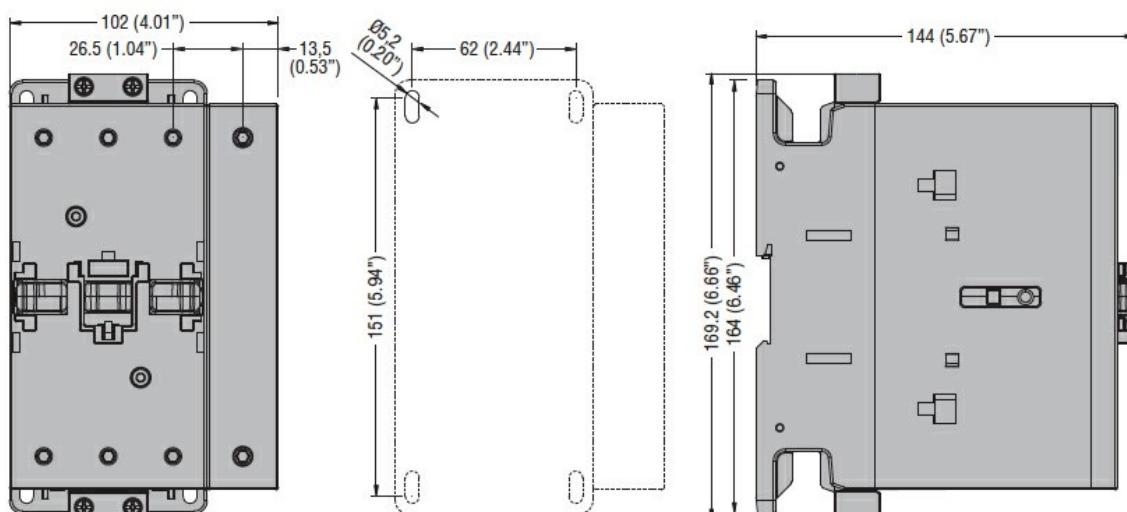
General USE

Contactor	AC current	A	150
Short-circuit protection fuse, 600V High fault	Short circuit current Fuse rating Fuse class	kA A J	100 200 250 RK5
Standard fault	Short circuit current Fuse rating Fuse class	kA A RK5	10 250 10

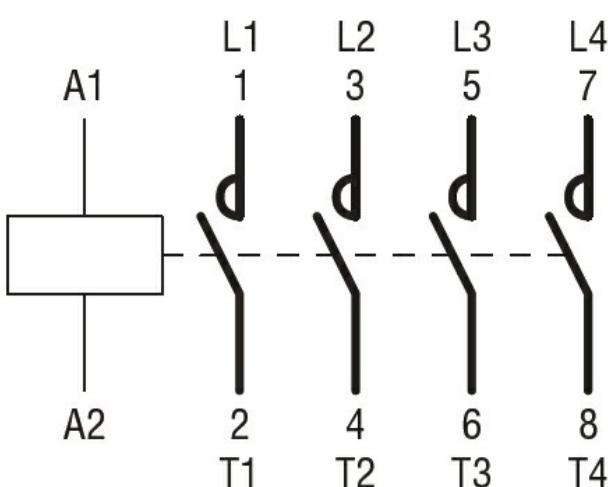
Ambient conditions

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