



Product designation  
Product type designation

Power contactor  
BF195

**Contact characteristics**

Number of poles	Nr.	3
Rated insulation voltage U <sub>i</sub> IEC/EN	V	1000
Rated impulse withstand voltage U <sub>imp</sub>	kV	8
Operational frequency	min	Hz 25
	max	Hz 400
IEC Conventional free air thermal current I <sub>th</sub>	A	275
Operational current I <sub>e</sub>	AC-1 (≤40°C)	A 275
	AC-1 (≤55°C)	A 230
	AC-1 (≤70°C)	A 200
	AC-3 (≤440V ≤55°C)	A 195
	AC-4 (400V)	A 95
Rated operational power AC-3 (T≤55°C)	230V	kW 55
	400V	kW 90
	415V	kW 110
	440V	kW 110
	500V	kW 132
	690V	kW 160
	1000V	kW 90
Rated operational current AC-3 (T≤55°C)	230V	A 195
	400V	A 195
	415V	A 195
	440V	A 195
	500V	A 184
	690V	A 165
	1000V	A 85
Rated operational power AC-1 (T≤40°C)	230V	kW 104
	400V	kW 181
	500V	kW 199
	690V	kW 312
IEC max current I <sub>e</sub> in DC1 with L/R ≤ 1ms with 1 poles in series	≤24V	A 275
	48V	A 275
	75V	A 275
	110V	A 120
	220V	A –
IEC max current I <sub>e</sub> in DC1 with L/R ≤ 1ms with 2 poles in series	≤24V	A 275

	48V	A	275
	75V	A	275
	110V	A	170
	220V	A	150
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IEC max current I <sub>e</sub> in DC1 with L/R ≤ 1ms with 3 poles in series			
	≤24V	A	275
	48V	A	275
	75V	A	275
	110V	A	170
	220V	A	150
	330V	A	150
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IEC max current I <sub>e</sub> in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	A	275
	48V	A	275
	75V	A	275
	110V	A	275
	220V	A	275
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IEC max current I <sub>e</sub> in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	A	275
	48V	A	275
	75V	A	180
	110V	A	90
	220V	A	–
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IEC max current I <sub>e</sub> in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	A	275
	48V	A	275
	75V	A	180
	110V	A	140
	220V	A	100
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IEC max current I <sub>e</sub> in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	≤24V	A	275
	48V	A	275
	75V	A	180
	110V	A	160
	220V	A	140
	330V	A	100
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IEC max current I <sub>e</sub> in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	A	275
	48V	A	275
	75V	A	180
	110V	A	160
	220V	A	160
	330V	A	160
	460V	A	100
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Short-time allowable current for 10s (IEC/EN60947-1)		A	1560
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Protection fuse			
	gG (IEC)	A	315
	aM (IEC)	A	250
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Making capacity (RMS value)		A	1658
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Breaking capacity at voltage			
	440V	A	1658
	500V	A	1326
	690V	A	1377
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Resistance per pole (average value)		mΩ	0.18

Power dissipation per pole (average value)

Ith	W	13
AC-3	W	6.7

Tightening torque for terminals

min	Nm	18
max	Nm	18
min	Ibin	159
max	Ibin	159

Tightening torque for coil terminal

min	Nm	0.8
max	Nm	1

Power terminal protection according to IEC/EN 60529

IP00

### Mechanical features

Operating position

normal allowable	Vertical plan ±30°
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Fixing

Screw

Weight

g 3000

### Operations

Mechanical life

cycles 10000000

Electrical life

cycles 1000000

### Safety related data

Performance level B10d according to EN/ISO 13489-1

rated load	cycles	1000000
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EMC compatibility

yes

### AC coil operating

Rated AC voltage at 50/60Hz, 60Hz

min	V	250
max	V	500

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
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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
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AC average coil consumption at 20°C

of 50/60Hz coil powered at 50Hz

in-rush	VA	160...230
holding	VA	1.5...3.0

of 50/60Hz coil powered at 60Hz

in-rush	VA	160...230
holding	VA	1.5...3.0

of 60Hz coil powered at 60Hz

in-rush	VA	160...230
holding	VA	1.5...3.0

Dissipation at holding ≤20°C 50Hz

W	1.5...3.0
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### DC coil operating

DC rated control voltage		min	V	250
		max	V	500

DC operating voltage				
	pick-up	min	%Us	85 Us min
		max	%Us	110 Us max
	drop-out			
		max	%Us	≤70 Us min

Average coil consumption ≤20°C		in-rush	W	160...230
		holding	W	1.5...3.0

### Max cycles frequency

Mechanical operation			cycles/h	1000
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### Operating times

Average time for Us control				
	in AC			
		Closing NO		
			min	ms
			max	ms
		Opening NO		
			min	ms
			max	ms

### UL technical data

Yielded mechanical performance				
	for three-phase AC motor			
		200/208V	HP	60
		220/230V	HP	75
		460/480V	HP	150
		575/600V	HP	150

General USE				
	Contactor			
		AC current	A	275

Short-circuit protection fuse, 600V				
	High fault			
		Short circuit current	kA	100
		Fuse rating	A	400
		Fuse class		J
	Standard fault			
		Short circuit current	kA	10
		Fuse rating	A	400
		Fuse class		RK5

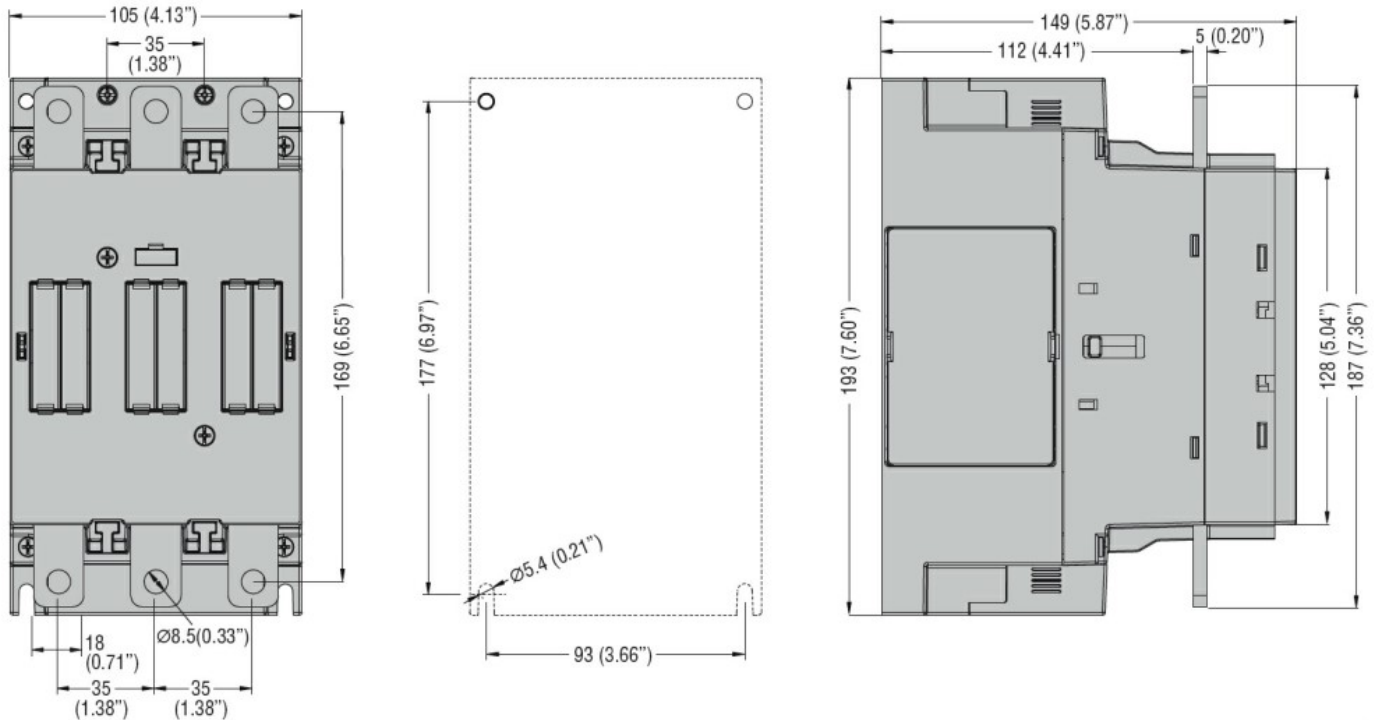
### Ambient conditions

Temperature				
	Operating temperature			
		min	°C	-40
		max	°C	70
	Storage temperature			
		min	°C	-50
		max	°C	80
Max altitude			m	3000

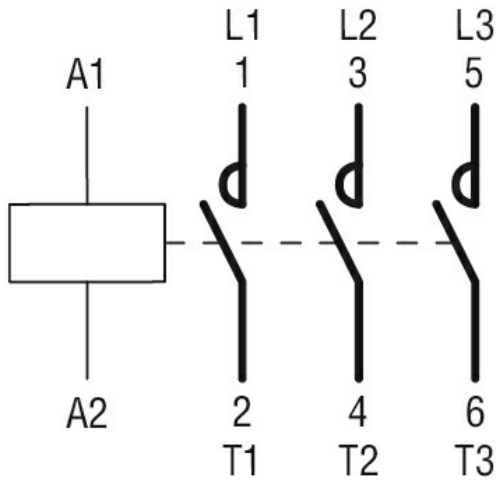
### Resistance & Protection

Pollution degree				3
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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**

cULus

**ETIM classification**

ETIM 8.0

EC000066 -  
Power contactor,  
AC switching