



Product designation
Product type designation

Power contactor
BF195

Contact characteristics

Number of poles	Nr.	3
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	275
Operational current I_e	AC-1 ($\leq 40^\circ\text{C}$)	A 275
	AC-1 ($\leq 55^\circ\text{C}$)	A 230
	AC-1 ($\leq 70^\circ\text{C}$)	A 200
	AC-3 ($\leq 440\text{V } \leq 55^\circ\text{C}$)	A 195
	AC-4 (400V)	A 95
Rated operational power AC-3 ($T \leq 55^\circ\text{C}$)	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 ($T \leq 55^\circ\text{C}$)	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 ($T \leq 40^\circ\text{C}$)	230V	kW 104
	400V	kW 181
	500V	kW 199
	690V	kW 312
IEC max current I_e in DC1 with $L/R \leq 1\text{ms}$ with 1 poles in series	$\leq 24\text{V}$	A 275
	48V	A 275
	75V	A 275
	110V	A 120
	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 275

	48V	A	275
	75V	A	275
	110V	A	170
	220V	A	150
IEC max current I _e 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
IEC max current I _e 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
IEC max current I _e 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	—
IEC max current I _e 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
IEC max current I _e 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
IEC max current I _e 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
Short-time allowable current for 10s (IEC/EN60947-1)		A	1560
Protection fuse			
	gG (IEC)	A	315
	aM (IEC)	A	250
Making capacity (RMS value)		A	1658
Breaking capacity at voltage			
	440V	A	1658
	500V	A	1326
	690V	A	1377
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°
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
	mechanical load	cycles	10000000
EMC compatibility			yes
AC coil operating			
Rated AC voltage at 50/60Hz, 60Hz			
	min	V	24
	max	V	60
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	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

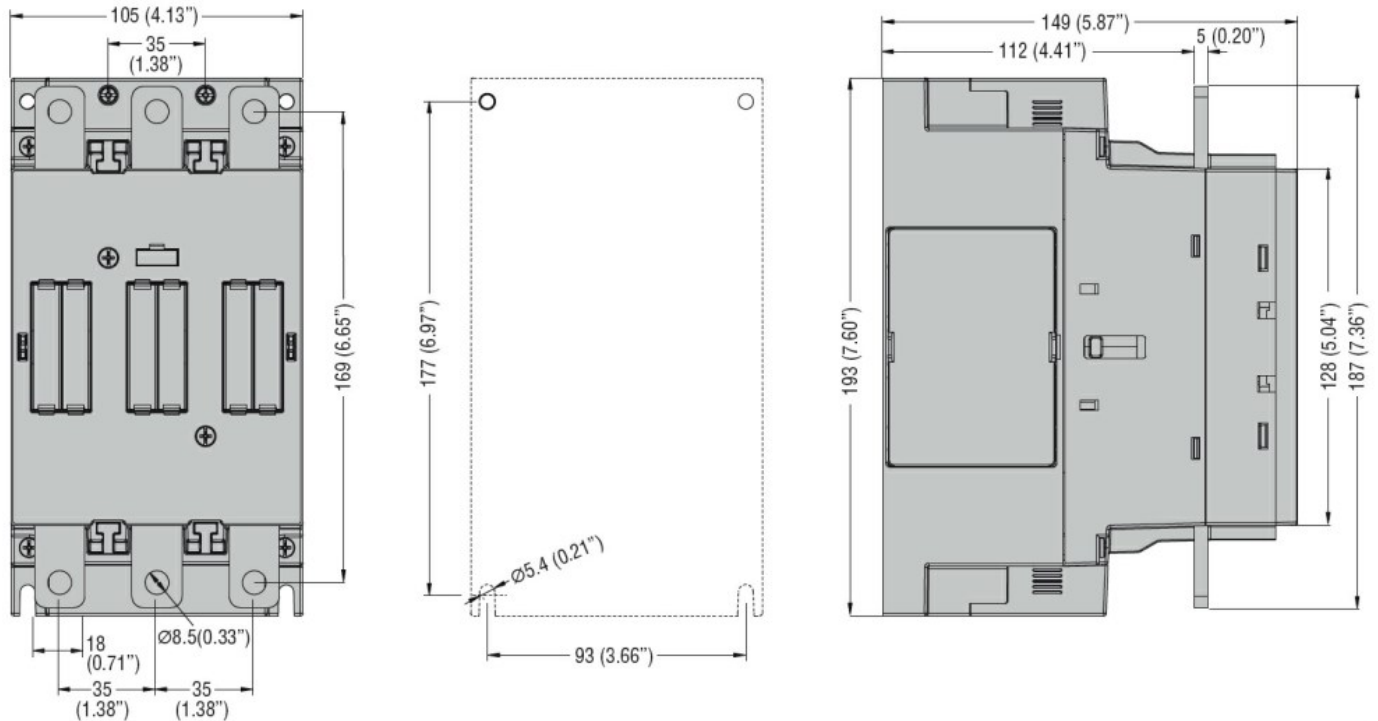
Dissipation at holding $\leq 20^{\circ}\text{C}$ 50Hz		W	1.5...3.0
DC coil operating			
DC rated control voltage		min	V 20
		max	V 60
DC operating voltage			
pick-up	min	%Us	85 Us min
	max	%Us	110 Us max
drop-out		max	%Us ≤ 70 Us min
Average coil consumption $\leq 20^{\circ}\text{C}$			
		in-rush	W 160...230
		holding	W 1.5...3.0
Max cycles frequency			
Mechanical operation		cycles/h	1000
Operating times			
Average time for Us control			
in AC			
		Closing NO	
		min	ms 50
		max	ms 100
		Opening NO	
		min	ms 35
		max	ms 75
UL technical data			
Rated operational voltage AC (UL)		V	600
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	$^{\circ}\text{C}$ -40
		max	$^{\circ}\text{C}$ 70
Storage temperature		min	$^{\circ}\text{C}$ -50
		max	$^{\circ}\text{C}$ 80

Max altitude m 3000

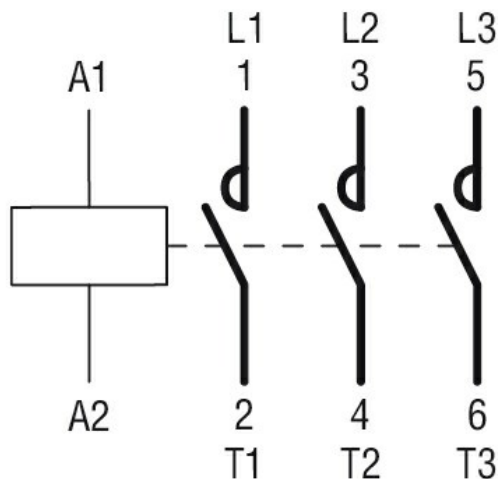
Resistance & Protection

Pollution degree 3

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