



			960
Product designation			Power contactor
Product type designation			BF195
Contact characteristics			
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operational frequency			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		Α	275
Operational current le			
	AC-1 (≤40°C)	Α	275
	AC-1 (≤55°C)	Α	230
	AC-1 (≤70°C)	Α	200
	AC-3 (≤440V ≤55°C)	Α	195
	AC-4 (400V)	Α	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	Α	195
	400V	Α	195
	415V	Α	195
	440V	Α	195
	500V	Α	184
	690V	Α	165
	1000V	Α	85
Rated operational power AC-1 (T≤40°C)			
, ,	230V	kW	104
	400V	kW	181
	500V	kW	199
	690V	kW	312
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
·	≤24V	Α	275
	48V	Α	275
	75V	Α	275
	110V	Α	120
	220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	<u> </u>		
,	≤24V	Α	275



	48V	Α	275
	75V	Α	275
	110V	Α	170
	220V	Α	150
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
·	≤24V	Α	275
	48V	Α	275
	75V	Α	275
	110V	Α	170
	220V	Α	150
	330V	Α	150
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	Α	275
	48V	Α	275
	75V	Α	275
	110V	A	275
	220V	Α	275
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series	220 1	- , ,	210
120 max current le in 200-200 with 2/10 2 forms with 1 poics in series	≤24V	Α	275
	48V	A	275
	75V	A	180
	110V	A	90
		A	
IFC may current to in DC2 DC5 with L/D < 15 mg with 2 notes in corios	220V	A	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	40.4V		075
	≤24V	A	275
	48V	A	275
	75V	Α	180
	110V	Α	140
	220V	Α	100
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series		_	
	≤24V	Α	275
	48V	Α	275
	75V	Α	180
	110V	Α	160
	220V	Α	140
	330V	Α	100
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	Α	275
	48V	Α	275
	75V	Α	180
	110V	Α	160
	220V	Α	160
	330V	Α	160
	460V	Α	100
Short-time allowable current for 10s (IEC/EN60947-1)		Α	1560
Protection fuse			
	gG (IEC)	Α	315
	aM (IEC)	Α	250
Making capacity (RMS value)	•	Α	1658
Breaking capacity at voltage			
	440V	Α	1658
	500V	Α	1326
	690V	Α	1377
Resistance per pole (average value)	3001	mΩ	0.18
- Toolotanoo poi poio (avorago valuo)		11124	3.10



Power dissipation per pole (average v	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				
3 44 44 4 44 4		min	Nm	0.8
		max	Nm	1
Power terminal protection according	to IEC/EN 60529	Пах		IP00
Mechanical features	10 120/214 00323			11 00
Operating position				
Operating position		,, a ,, ,, a , l		\/antical plan
		normal		Vertical plan
mt. d		allowable		±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
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 50/60Hz, 60Hz				
-		min	V	100
-		min max	V V	
AC operating voltage				100 250
	oil powered at 50Hz			
	oil powered at 50Hz			
	oil powered at 50Hz pick-up	max	V	250
		max min	V %Us	250 80 Us min
	pick-up	max	V	250
		max min max	V %Us %Us	80 Us min 110 Us max
of 50/60Hz c	pick-up drop-out	max min	V %Us	250 80 Us min
of 50/60Hz c	pick-up  drop-out  oil powered at 60Hz	max min max	V %Us %Us	80 Us min 110 Us max
of 50/60Hz c	pick-up drop-out	max min max max	V %Us %Us %Us	250 80 Us min 110 Us max ≤70 Us min
of 50/60Hz c	pick-up  drop-out  oil powered at 60Hz	max min max max	V %Us %Us %Us	80 Us min 110 Us max ≤70 Us min 80 Us min
of 50/60Hz c	pick-up  drop-out  oil powered at 60Hz  pick-up	max min max max	V %Us %Us %Us	250 80 Us min 110 Us max ≤70 Us min
of 50/60Hz c	pick-up  drop-out  oil powered at 60Hz	min max min max min max	%Us %Us %Us %Us %Us	80 Us min 110 Us max ≤70 Us min 80 Us min 110 Us max
of 50/60Hz co	pick-up  drop-out  oil powered at 60Hz  pick-up  drop-out	max min max max	V %Us %Us %Us	80 Us min 110 Us max ≤70 Us min 80 Us min
of 50/60Hz	pick-up  drop-out  oil powered at 60Hz pick-up  drop-out	min max min max min max	%Us %Us %Us %Us %Us	80 Us min 110 Us max ≤70 Us min 80 Us min 110 Us max
of 50/60Hz co	pick-up  drop-out  oil powered at 60Hz  pick-up  drop-out	min max min max min max	%Us %Us %Us %Us %Us	80 Us min 110 Us max ≤70 Us min 80 Us min 110 Us max
of 50/60Hz consumption at 20°C	pick-up  drop-out  oil powered at 60Hz pick-up  drop-out	min max min max min max	%Us %Us %Us %Us %Us	80 Us min 110 Us max ≤70 Us min 80 Us min 110 Us max
of 50/60Hz consumption at 20°C	pick-up  drop-out  oil powered at 60Hz pick-up  drop-out	min max min max min max	%Us %Us %Us %Us %Us	80 Us min 110 Us max ≤70 Us min 110 Us max ≤70 Us min 110 Us max ≤70 Us min
of 50/60Hz configuration of 50/60Hz configurat	pick-up  drop-out  oil powered at 60Hz pick-up  drop-out	min max min max max max in-rush	%Us %Us %Us %Us %Us	80 Us min 110 Us max ≤70 Us min 110 Us max ≤70 Us min 110 Us max ≤70 Us min
of 50/60Hz consumption at 20°C	pick-up  drop-out  oil powered at 60Hz pick-up  drop-out  coil powered at 50Hz	min max min max max max in-rush	%Us %Us %Us %Us %Us %Us	80 Us min 110 Us max ≤70 Us min 80 Us min 110 Us max ≤70 Us min 160230 1.53.0
of 50/60Hz consumption at 20°C	pick-up  drop-out  oil powered at 60Hz pick-up  drop-out  coil powered at 50Hz	min max max min max max in-rush holding in-rush	%Us %Us %Us %Us %Us %Us VA	80 Us min 110 Us max ≤70 Us min 110 Us max ≤70 Us min 110 Us max ≤70 Us min 160230 1.53.0
of 50/60Hz consumption at 20°C	drop-out  oil powered at 60Hz pick-up  drop-out  oil powered at 50Hz oil powered at 60Hz	min max min max min max in-rush holding	%Us %Us %Us %Us %Us %Us	80 Us min 110 Us max ≤70 Us min 80 Us min 110 Us max ≤70 Us min 160230 1.53.0
of 50/60Hz consumption at 20°C	pick-up  drop-out  oil powered at 60Hz pick-up  drop-out  coil powered at 50Hz	min max max min max min max in-rush holding in-rush holding	%Us %Us %Us %Us %Us %Us VA VA	80 Us min 110 Us max ≤70 Us min  80 Us min 110 Us max ≤70 Us min  160230 1.53.0  160230 1.53.0
of 50/60Hz of 50/60Hz of 50/60Hz of 50/60Hz of 50/60Hz of	drop-out  oil powered at 60Hz pick-up  drop-out  oil powered at 50Hz oil powered at 60Hz	min max max min max max in-rush holding in-rush	%Us %Us %Us %Us %Us %Us VA	80 Us min 110 Us max ≤70 Us min 110 Us max ≤70 Us min 110 Us max ≤70 Us min 160230 1.53.0

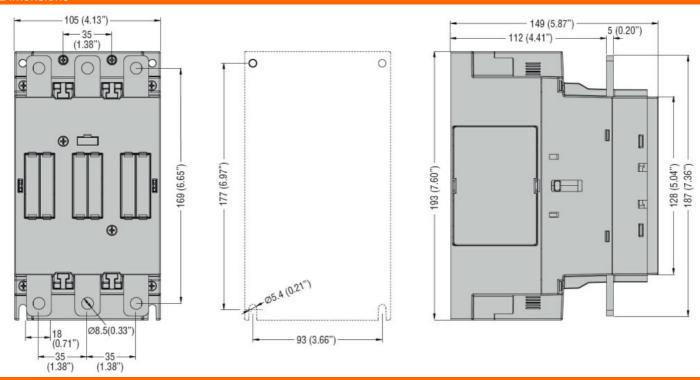


DC coil operating					
DC rated control voltage	ge				
			min	V	100
_			max	V	250
DC operating voltage					
	pick-up				
			min	%Us	85 Us min
			max	%Us	110 Us max
	drop-out				
			max	%Us	≤70 Us min
Average coil consump	tion ≤20°C				
			in-rush	W	160230
			holding	W	1.53.0
Max cycles frequency					
Mechanical operation				cycles/h	1000
Operating times					
Average time for Us co	ontrol				
	in AC				
		Closing NO			
		Ü	min	ms	50
			max	ms	100
		Opening NO			
		. 0	min	ms	35
			max	ms	75
UL technical data					
Yielded mechanical pe	erformance				
, , , , , , , , , , , , , , , , , , ,	for three-phase AC mo	otor			
	p		200/208V	HP	60
			220/230V	HP	75
			460/480V	HP	150
			575/600V	HP	150
General USE			3.0,000.		
301101di 302	Contactor				
	Contactor		AC current	Α	275
Short-circuit protection	fuse 600V		710 danchi		210
Short official protection	High fault				
	riigiriault		Short circuit current	kA	100
				A	400
			Fuse rating Fuse class	^	J
	Standard fault		1 456 61455		<u> </u>
	Statiuatu lauit		Short circuit current	kA	10
			Snort circuit current Fuse rating	кА А	400
			Fuse rating Fuse class	A	RK5
Ambient conditions			ruse ciass		NNO
Ambient conditions					
Temperature	On another a transfer				
	Operating temperature	9		٥.	40
			min	°C	-40 70
	<del></del>		max	°C	70
	Storage temperature			2.2	
			min	°C	-50
			max	°C	80
Max altitude				m	3000
Resistance & Protection	on				
Pollution degree					3

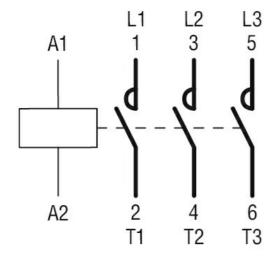
**ENERGY AND AUTOMATION** 

3-POLIGES SCHÜTZ, IEC BETRIEBSSTROM LE (AC3) = 195A, AC/DC-SPULE, 100... 250VAC/DC

### **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