



Product designation Product type designation			Power contactor 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)	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	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			
	≤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	Α	275
	220V	Α	275
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
·	≤24V	Α	275
	48V	Α	275
	75V	Α	180
	110V	Α	90
	220V	Α	<del>-</del>
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	<del>-</del>		
	≤24V	Α	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	A	160
	220V	A	140
	330V	A	100
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	000 V		100
The max deficit to in 500 500 with ETC = Tomo with 4 polos in series	≤24V	Α	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)	400 V	A	1560
Protection fuse			1000
r iolection iuse	۵۵ (۱۲۵)	۸	215
	gG (IEC)	A	315
Making canacity (DMC yelus)	aM (IEC)	A	250
Making capacity (RMS value)		Α	1658
Breaking capacity at voltage	44017	Α.	4050
	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 6	60529			IP00
Mechanical features	,0020			11 00
Operating position				
Sperating position		normal		Vertical plan
		allowable		Vertical plan
The desired		allowable		±30°
Fixing			_	Screw
Weight			g	3000
Operations				100000
Mechanical life			cycles	1000000
Electrical life			cycles	1000000
Safety related data				
Performance level B10d according to EN/ISO 13	3489-1			
		rated load	cycles	1000000
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 50/60Hz, 60Hz				
Nated AC voltage at 30/00112, 00112				
Nated Ac Voltage at 30/00/12, 00/12		min	V	250
Nated AC Voltage at 30/00/12, 00/12		min max	V V	
_				250 500
AC operating voltage	at 50Hz			
AC operating voltage of 50/60Hz coil powered				
AC operating voltage of 50/60Hz coil powered	at 50Hz pick-up	max	V	500
AC operating voltage of 50/60Hz coil powered		max	V %Us	500 80 Us min
AC operating voltage of 50/60Hz coil powered	pick-up	max	V	500
AC operating voltage of 50/60Hz coil powered		max min max	V %Us %Us	80 Us min 110 Us max
AC operating voltage of 50/60Hz coil powered	pick-up drop-out	max	V %Us	500 80 Us min
AC operating voltage  of 50/60Hz coil powered	pick-up drop-out at 60Hz	max min max	V %Us %Us	80 Us min 110 Us max
AC operating voltage  of 50/60Hz coil powered	pick-up drop-out	max min max max	V %Us %Us %Us	500 80 Us min 110 Us max ≤70 Us min
AC operating voltage  of 50/60Hz coil powered	pick-up drop-out at 60Hz	max min max max	V %Us %Us %Us	80 Us min 110 Us max ≤70 Us min 80 Us min
AC operating voltage  of 50/60Hz coil powered  of 50/60Hz coil powered  of 50/60Hz coil powered	drop-out  at 60Hz pick-up	max min max max	V %Us %Us %Us	500 80 Us min 110 Us max ≤70 Us min
AC operating voltage  of 50/60Hz coil powered  of 50/60Hz coil powered  of 50/60Hz coil powered	pick-up drop-out at 60Hz	max min max max	%Us %Us %Us %Us %Us	80 Us min 110 Us max ≤70 Us min 80 Us min 110 Us max
AC operating voltage  of 50/60Hz coil powered  of 50/60Hz coil powered  of 50/60Hz coil powered	drop-out  at 60Hz pick-up	max min max max	V %Us %Us %Us	80 Us min 110 Us max ≤70 Us min 80 Us min
AC operating voltage  of 50/60Hz coil powered  of 50/60Hz coil powered  of 50/60Hz coil powered	drop-out  at 60Hz pick-up	max max max max	%Us %Us %Us %Us %Us	80 Us min 110 Us max ≤70 Us min 80 Us min 110 Us max
AC operating voltage  of 50/60Hz coil powered  of 50/60Hz coil powered  of 50/60Hz coil powered	drop-out  at 60Hz pick-up  drop-out	max max max max	%Us %Us %Us %Us %Us	80 Us min 110 Us max ≤70 Us min 80 Us min 110 Us max
AC operating voltage  of 50/60Hz coil powered  of 50/60Hz coil powered  of 50/60Hz coil powered  AC average coil consumption at 20°C	drop-out  at 60Hz pick-up  drop-out	max max max max	%Us %Us %Us %Us %Us	80 Us min 110 Us max ≤70 Us min 80 Us min 110 Us max
AC operating voltage  of 50/60Hz coil powered  of 50/60Hz coil powered  of 50/60Hz coil powered	drop-out  at 60Hz pick-up  drop-out	min max max min 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
AC operating voltage  of 50/60Hz coil powered  of 50/60Hz coil powered  of 50/60Hz coil powered  AC average coil consumption at 20°C  of 50/60Hz coil powered	drop-out  at 60Hz pick-up  drop-out  at 50Hz	min max max min max 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
AC operating voltage  of 50/60Hz coil powered  of 50/60Hz coil powered  of 50/60Hz coil powered  AC average coil consumption at 20°C	drop-out  at 60Hz pick-up  drop-out  at 50Hz	min max max min max 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
AC operating voltage  of 50/60Hz coil powered  of 50/60Hz coil powered  of 50/60Hz coil powered  AC average coil consumption at 20°C  of 50/60Hz coil powered	drop-out  at 60Hz pick-up  drop-out  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
AC operating voltage  of 50/60Hz coil powered  of 50/60Hz coil powered  of 50/60Hz coil powered  AC average coil consumption at 20°C  of 50/60Hz coil powered  of 50/60Hz coil powered	drop-out at 60Hz pick-up drop-out at 50Hz at 60Hz	min max max min max 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
AC operating voltage  of 50/60Hz coil powered  of 50/60Hz coil powered  of 50/60Hz coil powered  AC average coil consumption at 20°C  of 50/60Hz coil powered	drop-out at 60Hz pick-up drop-out at 50Hz at 60Hz	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
AC operating voltage  of 50/60Hz coil powered  of 50/60Hz coil powered  of 50/60Hz coil powered  AC average coil consumption at 20°C  of 50/60Hz coil powered  of 50/60Hz coil powered	drop-out at 60Hz pick-up drop-out at 50Hz 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

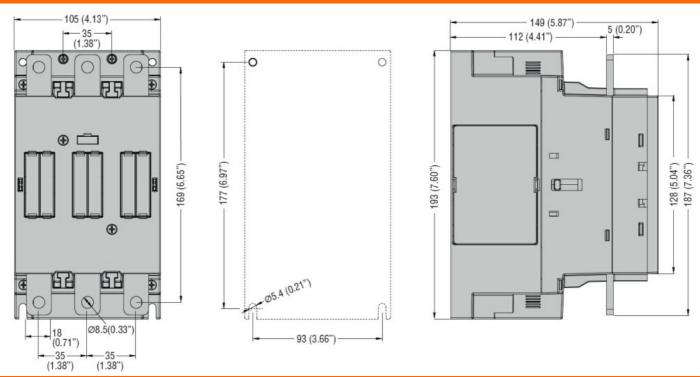


DC coil operating					
DC rated control voltag	e				
Do fated control voltag	C		min	V	250
			max	V	500
DC operating voltage			max	<u> </u>	
20 operating remage	pick-up				
	p.o up		min	%Us	85 Us min
			max	%Us	110 Us max
	drop-out				·
	•		max	%Us	≤70 Us min
Average coil consumpt	ion ≤20°C				
			in-rush	W	160230
			holding	W	1.53.0
Max cycles frequency					
Mechanical operation				cycles/h	1000
Operating times					
Average time for Us co					
	in AC	Olaska NO			
		Closing NO			50
			min	ms	50
		Opening NO	max	ms	100
		Opening NO	min	ms	35
			max	ms	75
UL technical data			IIIdx	1113	13
Yielded mechanical per	rformance				
riolada modilambai pol	for three-phase AC mot	tor			
	то иноо римоот то ино		200/208V	HP	60
			220/230V	HP	75
			460/480V	HP	150
			575/600V	HP	150
General USE					
	Contactor				
			AC current	Α	275
Short-circuit protection					
	High fault				
			Short circuit current	kA	100
			Fuse rating	Α	400
	0(11(1(		Fuse class		J
	Standard fault		Short circuit current	IzΛ	10
			Fuse rating	kA A	10 400
			Fuse class	^	RK5
Ambient conditions			1 400 01433		
Temperature					
	Operating temperature				
	, 5		min	°C	-40
			max	°C	70
	Storage temperature				·
			min	°C	-50
			max	°C	80
Max altitude				m	3000
Resistance & Protectio	n				
Pollution degree					3

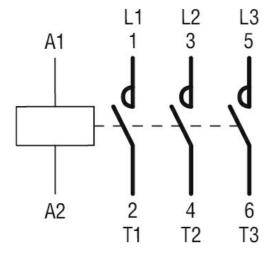
THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 195A, AC/DC COIL, 250... 500VAC/DC

**ENERGY AND AUTOMATION** 

# **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