



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	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	-		
	≤24V	Α	275
	48V	A	275
	75V	Α	180
	110V	Α	140
	220V	A	100
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	2201		
The max carron to in Boo Boo wai Ent = Tome wai o poled in conce	≤24V	Α	275
	48V	Α	275
	75V	A	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	330 V	^	100
TEC Max current le in DC3-DC3 with E/N = 13ms with 4 poles in series	≤24V	٨	275
	≤24 V 48 V	A A	275 275
	48 V 75 V	A	180
	75 V 110 V	A	160
	220V	A	160
	330V	A	160
	460V	A	100
Short time allowable current for 100 /IEC/ENGO047 1)	4007	A	1560
Short-time allowable current for 10s (IEC/EN60947-1)		Α	1000
Protection fuse	~O (IFO)	Λ.	245
	gG (IEC)	A	315
Making consoits (DMC value)	aM (IEC)	A	250
Making capacity (RMS value)		Α	1658
Breaking capacity at voltage	4.403.7		4050
	440V	A	1658
	500V	A	1326
	690V	Α	1377
Resistance per pole (average value)		mΩ	0.18



BF19500E230

Weight g 3000 Departions Mechanical life cycles 10000000	Device discination nor				
AC-3	Power dissipation per	pole (average value)	14h	۱۸/	10
Tightening torque for terminals					
Min	Timbtonina torava for t		AC-3	VV	0.7
Max Min 159	rightening torque for to	erminais		Nina	40
Tightening torque for coil terminal Tightening torque for coil ter					
Tightening torque for coil terminal min Nm 0.8 max Nm 1 1 1 1 1 1 1 1 1					
Tightening torque for coil terminal					
Minimax Nm Nm No No No No No No			max	Ibin	159
Province Province	lightening torque for c	coil terminal			
Power terminal protection according to IEC/EN 60529 IPO0 IPO0 IEC/AGE (IEC/AGE (IEC/			min		
Departing position Depart			max	Nm	
Departing position Inormal allowable Ino	-	tion according to IEC/EN 60529			IP00
Normal allowable Substitute Substitute					
Screw Scr	Operating position				
Screw Scre			normal		Vertical plan
Veright			allowable		±30°
Veright	Fixing				Screw
Departions	Weight			g	3000
Mechanical life cycles 10000000 Ciectrical life cycles 10000000 Coles Cycles 10000000 Coles Cycles Cycles 10000000 Coles Cycles Cycles Cycles Cycles Cycles Cycles Cycl	Operations				
Compatibility Coll operating Coll	Mechanical life			cvcles	10000000
Performance level B10d according to EN/ISO 13489-1 rated load cycles 1000000	Electrical life			•	
Performance level B10d according to EN/ISO 13489-1 MC compatibility yes MC coll operating Rated AC voltage at 50/60Hz, 60Hz Max V 100 max V 250 MC coperating voltage MC coperating voltage Min WU 100 max V 250 MC operating voltage MC coperating voltage Min WU 100 max WU 100 max WU 110 Us max MC operating voltage Min MU MU MU MU MU MU MU M				0,0100	1000000
MC compatibility yes NC coll operating yes NC coll operating NC coll oper		Od according to EN/ISO 13489-1			
MC compatibility yes NC coil operating Rated AC voltage at 50/60Hz, 60Hz min V 100 max V 250 AC operating voltage of 50/60Hz coil powered at 50Hz pick-up min max %Us 80 Us min max %Us 110 Us max Mus M	r chomianoc icver biv	od docording to ETV/100 To-100 T	rated load	cycles	1000000
AC coil operating Rated AC voltage at 50/60Hz, 60Hz min V 100 max V 250 AC operating voltage of 50/60Hz coil powered at 50Hz pick-up min max %Us 80 Us min max %Us 110 Us max AC operating voltage min min max %Us ≤70 Us min of 50/60Hz coil powered at 60Hz pick-up min max %Us 110 Us max drop-out max %Us 80 Us min max %Us ≤70 Us min max wus wu	EMC compatibility		Taled load	Cycles	
Rated AC voltage at 50/60Hz, 60Hz Min					yes
Min V 100 max V 250		0/60H= 60H=			
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 max %Us \$110 Us max drop-out min %Us 80 Us min max %Us \$70 Us min max %Us \$110 Us max drop-out min %Us 80 Us min max %Us \$110 Us max \$110 Us max ### AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz fin-rush VA 160230 holding VA 1.53.0 of 60Hz coil powered at 60Hz in-rush VA 160230 holding VA 1.53.0 of 60Hz coil powered at 60Hz in-rush VA 160230 holding VA 1.53.0	Nateu AC voltage at 5	0/00112, 00112	min	17	100
AC operating voltage of 50/60Hz coil powered at 50Hz pick-up min max %Us 80 Us min max %Us 110 Us max drop-out max %Us ≤70 Us min max %Us 80 Us min max %Us ≤70 Us min of 50/60Hz coil powered at 60Hz pick-up min max %Us 80 Us min max %Us 110 Us max drop-out max %Us ≤70 Us min max %Us ≤70 Us min AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 160230 holding VA 1.53.0 of 60Hz coil powered at 60Hz in-rush VA 160230 holding VA 1.53.0					
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 ≤70 Us min min %Us 80 Us min max %Us 110 Us max drop-out max %Us 110 Us max 4 Substantial max %Us 110 Us max max %Us ≤70 Us min AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 160230 holding VA 1.53.0 of 60Hz coil powered at 60Hz in-rush VA 160230 holding VA 1.53.0	A O		max	V	250
pick-up min %Us 80 Us min max %Us 110 Us max Mus 110 Us min Mus	AC operating voltage	(50/0011 11 1 5011			
Min Mus 80 Us min max Mus 110 Us max max Mus Mu		•			
Max Mus 110 Us min Mus		pick-up			
drop-out max %Us ≤70 Us min			min		
max %Us ≤70 Us min			max	%Us	110 Us max
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 160230 holding VA 1.53.0 of 50/60Hz coil powered at 60Hz in-rush VA 160230 holding VA 1.53.0 of 60Hz coil powered at 60Hz in-rush VA 160230 holding VA 1.53.0		drop-out			
pick-up min %Us 80 Us min max %Us 110 Us max drop-out max %Us ≤70 Us min MAC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 160230 holding VA 1.53.0 of 50/60Hz coil powered at 60Hz in-rush VA 160230 holding VA 1.53.0 of 60Hz coil powered at 60Hz in-rush VA 160230 holding VA 1.53.0			max	%Us	≤70 Us min
min max min max max min max max		of 50/60Hz coil powered at 60Hz			
Max %Us 110 Us max		pick-up			
drop-out Max Max Mus ≤70 Us min AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz			min	%Us	80 Us min
Max %Us ≤70 Us min AC average coil consumption at 20°C			max	%Us	110 Us max
Max %Us ≤70 Us min AC average coil consumption at 20°C		drop-out			
AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 160230 holding VA 1.53.0 of 50/60Hz coil powered at 60Hz in-rush VA 160230 holding VA 1.53.0 of 60Hz coil powered at 60Hz in-rush VA 160230 holding VA 1.53.0		·	max	%Us	≤70 Us min
of 50/60Hz coil powered at 50Hz in-rush VA 160230 holding VA 1.53.0 of 50/60Hz coil powered at 60Hz in-rush VA 160230 holding VA 1.53.0 of 60Hz coil powered at 60Hz in-rush VA 160230 holding VA 1.53.0	AC average coil consu	imption at 20°C	····		
in-rush VA 160230 holding VA 1.53.0 of 50/60Hz coil powered at 60Hz in-rush VA 160230 holding VA 1.53.0 of 60Hz coil powered at 60Hz in-rush VA 160230 holding VA 1.53.0	5	•			
holding VA 1.53.0 of 50/60Hz coil powered at 60Hz in-rush VA 160230 holding VA 1.53.0 of 60Hz coil powered at 60Hz in-rush VA 160230 holding VA 1.53.0			in-rush	VA	160230
of 50/60Hz coil powered at 60Hz in-rush VA 160230 holding VA 1.53.0 of 60Hz coil powered at 60Hz in-rush VA 160230 holding VA 1.53.0					
in-rush VA 160230 holding VA 1.53.0 of 60Hz coil powered at 60Hz in-rush VA 160230 holding VA 1.53.0		of 50/60Hz coil powered at 60Hz	noiding	٧/١	
holding VA 1.53.0 of 60Hz coil powered at 60Hz in-rush VA 160230 holding VA 1.53.0		or 50,000 iz coii powered at ouriz	in ruch	١/٨	160 230
of 60Hz coil powered at 60Hz in-rush VA 160230 holding VA 1.53.0					
in-rush VA 160230 holding VA 1.53.0		of COL In poil movement of COL I	noiding	VA	1.53.0
holding VA 1.53.0		or 60Hz coil powered at 60Hz			400 000
Dissipation at holding ≤20°C 50Hz W 1.53.0			holding		
	Dissipation at holding:	≤20°C 50Hz		W	1.53.0

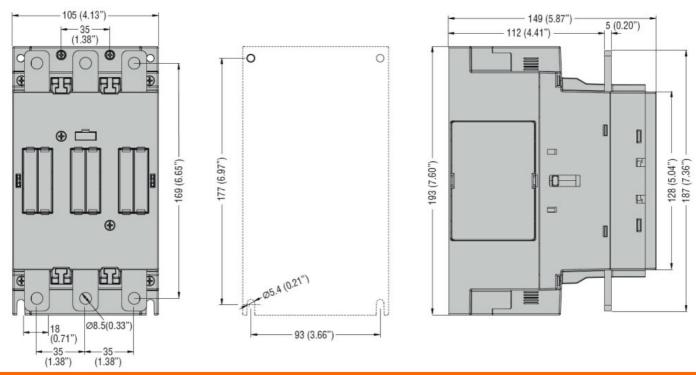


DC soil an arcting					
DC coil operating	10				
DC rated control voltage	y c			17	100
			min	V V	100 250
DC operating voltage			max	V	200
Do operating voltage	pick-up				
	hior-ah		min	%Us	85 Us min
			max	%Us	110 Us max
	drop-out		IIIdX	7003	110 03 1110
	2.0p 0at		max	%Us	≤70 Us min
Average coil consumpt	tion ≤20°C		max		
J			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			
			min	ms	50
			max	ms	100
		Opening NO			
			min	ms	35
			max	ms	75
UL technical data					
Yielded mechanical pe					
	for three-phase AC mo	otor		–	
			200/208V	HP	60
			220/230V	HP	75
			460/480V	HP	150
Conoral LICE			575/600V	HP	150
General USE	Contactor				
	Contactor		AC aurrant	٨	275
Short-circuit protection	fueo 600\/		AC current	A	275
Short-circuit protection	High fault				
	ı ilgir rault		Short circuit current	kA	100
			Fuse rating	A	400
			Fuse class	^	J
	Standard fault		1 400 01433		<u> </u>
	Standard Iddit		Short circuit current	kA	10
			Fuse rating	A	400
			Fuse class		RK5
Ambient conditions			. 200 0.200		
Temperature					
•	Operating temperature)			
	, <u>g</u>		min	°C	-40
			max	°C	70
	Storage temperature				
			min	°C	-50
			max	°C	80
Max altitude				m	3000
Resistance & Protection	on				
Pollution degree					3

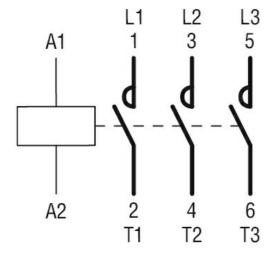
ENERGY AND AUTOMATION

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