ENERGY AND AUTOMATION



			ale
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		A	275
Operational current le			
	AC-1 (≤40°C)	А	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
	400V 415V	kW	110
	440V	kW	110
	500V	kW	132
	690V	kW	160
	1000V	kW	90
Rated operational power AC-1 (T≤40°C)	10007		
	230V	kW	104
	400V	kW	181
	400V 500V	kW	199
	690V	kW	312
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series	0007		012
	≤24V	А	275
	48V	A	275
	75V	A	275
	110V	A	120
	220V	A	-
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series	2201		
	≤24V	А	275
	48V	A	275
	75V 110V	A	275 170
		A	
IEC may ourrant to in DC1 with 1/D < 1 may with 2 nation in action	220V	A	150
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series	20 40 /	^	075
	≤24V	A	275
	48V	A	275
	75V	А	275

BF19500E110



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 195A, AC/DC COIL, 60... 130VAC/DC

BF19500E110

$ \begin{array}{c c c c c c c c c c c c c c c c c c c $				
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		110V	А	170
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $				
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	IEC may aureant to in DC1 with L/R < 1 ma with 4 nation in partice	550 v	~	150
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	The max current le in DCT with $L/R \le 1$ ms with 4 poles in series	-0 A) (		075
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $				
$\begin{array}{c c c c c c c c c c c c c c c c c c c $			A	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		75V	Α	275
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		110V	Α	275
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		220V	А	275
$ \begin{array}{c} \leq 24 \vee & A & 275 \\ 48 \vee & A & 275 \\ 75 \vee & A & 180 \\ 110 \vee & A & 90 \\ 220 \vee & A & - \end{array} \\ \hline \\ IEC max current le in DC3-DC5 with L/R \leq 15ms with 2 poles in series \\ \leq 24 \vee & A & 275 \\ 48 \vee & A & 275 \\ 75 \vee & A & 180 \\ 110 \vee & A & 140 \\ 220 \vee & A & 100 \end{array} \\ \hline \\ IEC max current le in DC3-DC5 with L/R \leq 15ms with 3 poles in series \\ \leq 224 \vee & A & 275 \\ 48 \vee & A & 275 \\ 75 \vee & A & 180 \\ 110 \vee & A & 140 \\ 220 \vee & A & 100 \end{array} \\ \hline \\ IEC max current le in DC3-DC5 with L/R \leq 15ms with 3 poles in series \\ \leq 24 \vee & A & 275 \\ 75 \vee & A & 180 \\ 110 \vee & A & 160 \\ 220 \vee & A & 140 \\ 330 \vee & A & 100 \end{array} \\ \hline \\ IEC max current le in DC3-DC5 with L/R \leq 15ms with 4 poles in series \\ \leq 24 \vee & A & 275 \\ 75 \vee & A & 180 \\ 110 \vee & A & 160 \\ 220 \vee & A & 160 \\ 330 \vee & A & 100 \end{array} \\ \hline \\ IEC max current le in DC3-DC5 with L/R \leq 15ms with 4 poles in series \\ \leq 24 \vee & A & 275 \\ 75 \vee & A & 180 \\ 110 \vee & A & 160 \\ 220 \vee & A & 160 \\ 330 \vee & A & 100 \end{array} \\ \hline \\ IEC max current for 10s (IEC/EN60947-1) & A & 166 \\ 330 \vee & A & 160 \\ 330 \vee & A & 160 \\ 330 \vee & A & 160 \\ 200 \vee & A & 160 \\ 330 \vee & A & 160 \\ 200 \vee & A & 160 \\ 330 \vee & A & 160 \\ 200 \vee & A & 160 \\ 330 \vee & A & 160 \\ 200 \vee & A & 160 \\ 330 \vee & A & 160 \\ 330 \vee & A & 160 \\ 110 \vee & A & 166 \\ \hline \\$	IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 1 poles in series			
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		≤24\/	А	275
$\begin{array}{c c c c c c c c c c c c c c c c c c c $				
$\begin{array}{c c c c c c c } 1107 & A & 90 \\ 220V & A & - \\ \hline \hline$				
$\begin{array}{c c c c c c c c c c c c c c c c c c c $				
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		220V	A	_
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 2 poles in series			
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		≤24V	А	275
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		48V	А	275
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		75V		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $				
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series $524V$ 4 87 75V 75V A 180 110V 330V A 100IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series $524V$ 4 87 75V A 180 110V A 100IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series $524V$ 4 87 75V A 275 4 87 A 275 4 87 A 275 4 80V A 275 A 180 110V A 160 220V 220V A 160 330V A 160 220V A 160 330V A 160 460V A 100Short-time allowable current for 10s (IEC/EN60947-1) Protection fuseA 1560 20V A 1560Protection fusegG (IEC) A 315 aM (IEC)A 1658 250Making capacity (RMS value) Breaking capacity at voltageA 1658 440V A 1658 500V A 1326 690V A 1327A 1658 500V A 1326 690V A 1327Resistance per pole (average value) Power dissipation per pole (average value)mΩ AC3 V A 13 AC3 V13 AC3 V A 57Tightening torque for terminalsmin Nm <b< td=""><td></td><td></td><td></td><td></td></b<>				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	IEC may current to in DC3 DC5 with $1/P < 15$ me with 3 poles in series	220 V		100
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	IEC max current le in DC3-DC3 with L/K = 15ms with 3 poles in series	<241	۸	075
$\begin{array}{cccccccccccccccccccccccccccccccccccc$				
$\begin{array}{c c c c c c c c c c c c c c c c c c c $				
$\begin{array}{c c c c c c c c c c c c c c c c c c c $				
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$			A	
$\begin{tabular}{ c c c c c c } \hline IEC max current le in DC3-DC5 with L/R \le 15ms with 4 poles in series $$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$		220V	Α	140
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		330V	А	100
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
48V     A     275       75V     A     180       110V     A     160       220V     A     160       330V     A     160       330V     A     160       330V     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       admin g capacity (RMS value)     A     1658       Breaking capacity at voltage     440V     A     1658       Breaking capacity at voltage     440V     A     1326       690V     A     1326     690V     A     1326       690V     A     13377     Resistance per pole (average value)     mΩ     0.18     690V     A     13       Power dissipation per pole (average value)     mΩ     0.18     67     7       Tightening torque for terminals     min     Nm     18     max     Nm		≤24V	А	275
$\begin{array}{cccccccccccccccccccccccccccccccccccc$				
$\begin{array}{c ccccc} 110 & A & 160 \\ 220 & A & 160 \\ 330 & A & 160 \\ 460 & A & 100 \\ \hline \end{array}$				
$\begin{array}{c cccc} 220 & A & 160 \\ 330 & A & 160 \\ 460 & A & 100 \\ \hline \end{array}$				
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$				
$\begin{array}{c c c c c c c c c c c c c c c c c c c $				
$\begin{array}{c c c c c c c c c c c c c c c c c c c $				
Protection fuse   gG (IEC)   A   315     aM (IEC)   A   250     Making capacity (RMS value)   A   1658     Breaking capacity at voltage   440V   A   1658     440V   A   1658   500V   A   1326     690V   A   1377   690V   A   1377     Resistance per pole (average value)   mΩ   0.18   0.18     Power dissipation per pole (average value)   Ith   W   13     AC3   W   6.7   13     Tightening torque for terminals   min   Nm   18     max   Nm   18   min   159		460V		
gG (IEC) aM (IEC)     A     315 a 250       Making capacity (RMS value)     A     1658       Breaking capacity at voltage     440V     A     1658       Source     A     1326     690V     A     1377       Resistance per pole (average value)     mΩ     0.18     0.18     0.18       Power dissipation per pole (average value)     Ith     W     13     AC3     W     6.7       Tightening torque for terminals     min     Nm     18     max     Nm     18       min     Ibin     159     159     159     150     150			A	1560
aM (IEC)     A     250       Making capacity (RMS value)     A     1658       Breaking capacity at voltage     440V     A     1658       440V     A     1658     500V     A     1326       690V     A     1377     690V     A     1377       Resistance per pole (average value)     mΩ     0.18     690V     A     133       Power dissipation per pole (average value)     Ith     W     13     AC3     W     6.7       Tightening torque for terminals     min     Nm     18     max     Nm     18       min     Ibin     159     159     159     159     159	Protection fuse			
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     0.18       Power dissipation per pole (average value)     Ith     W     13       AC3     W     6.7     6.7       Tightening torque for terminals     min     Nm     18       max     Nm     18     min     159		gG (IEC)	А	315
Making capacity (RMS value)     A     1658       Breaking capacity at voltage     440V     A     1658       440V     A     1658     500V     A     1326       690V     A     1377     6     690V     A     1377       Resistance per pole (average value)     mΩ     0.18     0.18     0.18       Power dissipation per pole (average value)     Ith     W     13     AC3     W     6.7       Tightening torque for terminals     min     Nm     18     max     Nm     18       min     lbin     159     159     159     159			А	250
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       AC3     W     6.7       Tightening torque for terminals     min     Nm     18       max     Nm     18       min     Ibin     159	Making capacity (RMS value)			
$\begin{array}{cccc} & 440 & A & 1658 \\ 500 & A & 1326 \\ 690 & A & 1377 \\ \hline \\$				
500V     A     1326       690V     A     1377       Resistance per pole (average value)     mΩ     0.18       Power dissipation per pole (average value)     Ith     W     13       AC3     W     6.7       Tightening torque for terminals     min     Nm     18       max     Nm     18     min     159		440\/	Δ	1658
690VA1377Resistance per pole (average value)mΩ0.18Power dissipation per pole (average value)IthW13AC3W6.7Tightening torque for terminalsminNm18maxNm18min159				
Resistance per pole (average value)   mΩ   0.18     Power dissipation per pole (average value)   Ith   W   13     AC3   W   6.7     Tightening torque for terminals   min   Nm   18     max   Nm   18     min   Ibin   159				
Power dissipation per pole (average value) Ith W 13 AC3 W 6.7 Tightening torque for terminals min Nm 18 max Nm 18 min Ibin 159		690V		
Ith W 13   AC3 W 6.7   Tightening torque for terminals min Nm 18   max Nm 18   min Ibin 159			mΩ	0.18
AC3W6.7Tightening torque for terminalsminNm18maxNm18159	Power dissipation per pole (average value)			
Tightening torque for terminals min Nm 18 max Nm 18 min Ibin 159				
min Nm 18 max Nm 18 min Ibin 159		AC3	W	6.7
min Nm 18 max Nm 18 min Ibin 159	Tightening torque for terminals			
max Nm 18 min Ibin 159		min	Nm	18
min Ibin 159				
IIIax IDIII 109				
		IIIdX		153

BF19500E110



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 195A, AC/DC COIL, 60... 130VAC/DC

BF19500E110

0.8

1 IP00

Nm

Nm

ENERGY AND AUTOMATION		
min		
max		

ower terminal protection according	10120/211000323			11 00
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw
Weight			g	3000
Operations				
Mechanical life			cycles	1000000
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	60
		max	V	130
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°				
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
Dissipation at holding ≤20°C 50Hz			W	1.53.0
DC coil operating				
DC rated control voltage				
		min	V	60
		max	V	130
DC operating voltage				
DC operating voltage pick-up				
		min	%Us %Us	85 Us min 110 Us max



BF19500E110



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 195A, AC/DC COIL, 60...

130VAC/DC

	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					4000
Mechanical operation				cycles/h	1000
Operating times	ntrol				
Average time for Us co	in AC				
		sing NO			
	Ció		min	ms	50
			max	ms	100
	Op	ening NO	Παλ	1115	100
	Op		min	ms	35
			max	ms	75
UL technical data					
Yielded mechanical pe	rformance				
	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					
	High fault				
			Short circuit current	kA	100
			Fuse rating	A	400
			Fuse class		J
	Standard fault		Chart size vit surrout	LΑ	10
			Short circuit current Fuse rating	kA A	10 400
			Fuse class	A	400 RK5
Ambient conditions			Fuse class		KK5
Temperature					
	Operating temperature				
			min	°C	-40
			max	°Č	70
	Storage temperature			•	-
			min	°C	-50
			max	°Č	80
Max altitude				m	3000
Resistance & Protectio	n				
Pollution degree					3
Dimensions					

## BF19500E110

E

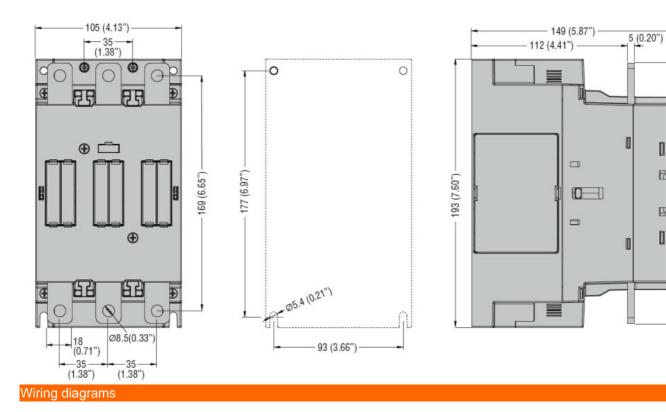
E

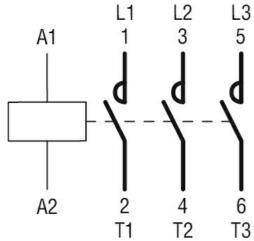
0

128 (5.04") 187 (7.36")



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 195A, AC/DC COIL, 60... 130VAC/DC





## Certifications and compliance

Certificates

cULus

ETIM classification

**ETIM 8.0** 

EC000066 -Power contactor, AC switching

BF19500E110