

Product designation	Power contactor		
Product type designation	BF195		
Contact characteristics			
Number of poles	Nr. 4		
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 Ie			
	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-1 ($T \leq 40^{\circ}\text{C}$)	230V	kW	104
	400V	kW	181
	500V	kW	199
	690V	kW	312
IEC max current Ie 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 Ie 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 Ie in DC1 with $L/R \leq 1\text{ms}$ with 3 poles in series	$\leq 24\text{V}$	A	275
	48V	A	275
	75V	A	275
	110V	A	170
	220V	A	150
	330V	A	150
IEC max current Ie in DC1 with $L/R \leq 1\text{ms}$ with 4 poles in series	$\leq 24\text{V}$	A	275
	48V	A	275
	75V	A	275
	110V	A	275
	220V	A	275
IEC max current Ie in DC3-DC5 with $L/R \leq 15\text{ms}$ with 1 poles in series	$\leq 24\text{V}$	A	275
	48V	A	275
	75V	A	180
	110V	A	90
	220V	A	—
IEC max current Ie in DC3-DC5 with $L/R \leq 15\text{ms}$ 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 $L/R \leq 15\text{ms}$ 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 $L/R \leq 15\text{ms}$ 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)		m?	0.18
Power dissipation per pole (average value)			
	I _{th}	W	13
	AC3	W	6.7
Tightening torque for terminals			
	min	Nm	18
	max	Nm	18
	min	lbin	159
	max	lbin	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	4000	
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	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 ≤20°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 ≤20°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

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	°C	-40
		max	°C	70
Storage temperature		min	°C	-50
		max	°C	80
Max altitude		m		3000
Resistance & Protection				
Pollution degree				3
ETIM classification				
ETIM 8.0				EC000066 - Power contactor, AC switching