

ENERGY AND AUTOMATION

electric FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 275A, AC/DC COIL, 250... 500VAC/DC



Product designation Product type designation			Power contactor BF195
Contact characteristics			ы 195
Number of poles		Nr.	4
Rated insulation voltage Ui IEC/EN		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operational frequency			
operational inequality	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-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	A	275
	110V	A	170
	220V	A	150
150	330V	Α	150
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series	20.07	^	075
	≤24V	A	275
	48V	A	275
	75V	A	275
	110V	Α	275



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	220V	Α	350
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	Α	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	A	275
	75V	A	180
	110V	A	160
	220V	A	140
	330V	A	100
IFC many asymmetric in DC2 DC5 with L/D < 45 may with 4 males in acrise	3307	A	100
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	-04) /	Δ.	075
	≤24V	A	275
	48V	A	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)		mΩ	0.18
Power dissipation per pole (average value)			
,	lth	W	13
	AC3	W	6.7
Tightening torque for terminals	7,00		0.1
g	min	Nm	18
	max	Nm	18
	min	Ibin	159
		Ibin	159
Tightoning targue for sail terminal	max	וווטו	108
Tightening torque for coil terminal		N La -	0.0
	min	Nm	0.8
	max	Nm	1
Power terminal protection according to IEC/EN 60529			IP00
Mechanical features			
Operating position			
	normal		Vertical plan



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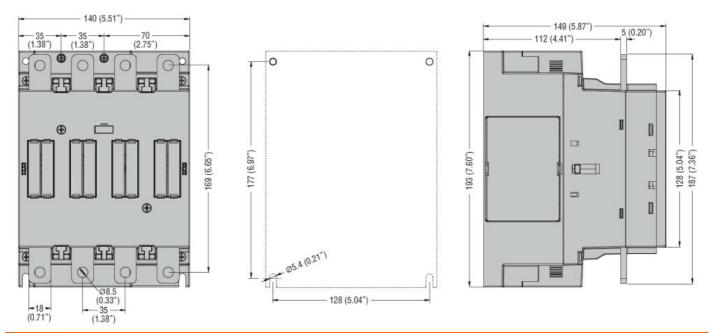
		allowable		±30°
Fixing				Screw
Weight			g	4000
Operations				
Mechanical life			cycles	10000000
Electrical life			cycles	1000000
Safety related data				
Performance level B10	d according to EN/ISO 13489-1			
		rated load	cycles	1000000
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 50)/60Hz, 60Hz			
_		min	V	250
		max	V	500
AC operating voltage				
1 0 0	of 50/60Hz coil powered at 50Hz			
	pick-up			
	p.o up	min	%Us	80 Us min
		max	%Us	110 Us max
	drop-out	max	7000	110 00 max
	arop out	max	%Us	≤70 Us min
	of 50/60Hz coil powered at 60Hz	ТТСХ	7000	=70 00 111111
	pick-up			
	plot up	min	%Us	80 Us min
		max	%Us	110 Us max
	drop-out	παλ	7003	110 03 max
	diop out	max	%Us	≤70 Us min
AC average coil consu	motion at 20°C	Παλ	7003	=10 03 IIIII
Ao average con consu	of 50/60Hz coil powered at 50Hz			
	of 30/00112 coll powered at 30112	in-rush	VA	160230
		holding	VA	1.53.0
	of 50/60Hz coil powered at 60Hz	Holding	VA	1.55.0
	of 30/00112 coil powered at 00112	in-rush	VA	160230
		holding	VA	1.53.0
	of 60Hz coil newared at 60Hz	Holding	VA	1.55.0
	of 60Hz coil powered at 60Hz	in-rush	VA	160230
			VA VA	
Discipation at halding a	<20°C 50∐-7	holding	W	1.53.0
Dissipation at holding ≤	\$20 C 50H2		VV	1.53.0
DC coil operating				
DC rated control voltage	je			050
		min	V	250
DO		max	V	500
DC operating voltage				
	pick-up		0/17	0511.
		min	%Us	85 Us min
		max	%Us	110 Us max
	drop-out		0.41.4	4 7 0.11
·		max	%Us	≤70 Us min
Average coil consumpt	tion ≤20°C			
		in-rush	W	160230
		holding	W	1.53.0
Max cycles frequency				
Mechanical operation			cycles/h	1000

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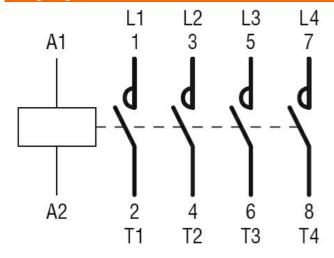
Average time for Us control in AC Closing NO min ms 50 max ms 100 Opening NO min ms 35 max ms 75 UL technical data Yielded mechanical performance for three-phase AC motor 200/208V HP 60 220/230V HP 75 460/480V HP 150 575/600V HP 150 General USE Contactor AC current A 275 Short-circuit protection fuse, 600V High fault Short circuit current kA 100 Fuse rating A 400 Fuse class J Standard fault Short circuit current kA 100 Fuse rating A 400 Fuse class J Ambient conditions Temperature Operating temperature Operating temperature Storage temperature min °C -40 max °C 70 Storage temperature min °C -50 max °C 80 Max altitude max 9000 Resistance & Protection Follution degree Dimensions	Operating times				
Closing NO	Average time for Us cont	rol			
Min max 100	ir	n AC			
Min max 100		Closing NO			
Opening NO		Ç	min	ms	50
Opening NO			max	ms	100
Min min ms 35 ms 75		Opening NO			
Max		, ,	min	ms	35
Vielded mechanical performance for three-phase AC motor					
Yielded mechanical performance for three-phase AC motor 200/208V HP 60 220/230V HP 75 460/480V 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 Coperating temperature min °C -40 max °C 70 Storage temperature min °C -50 max °C 50 max °C 80 max °C 80 most rowspan="2">Mesistance & Protection	UL technical data				
For three-phase AC motor 200/208V		ormance			
Contactor AC current A 275	-				
Contactor	.,	e. aee p.idoo / le motor	200/208\/	HP	60
A60/480V					
S75/600V					
Contactor					
Contactor AC current A 275	General LISE		010/0001	• • • •	100
AC current		Contactor			
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		Somacion	AC current	۸	275
High fault	Chart airquit protection fu	100 6001/	AC current		213
Short circuit current	·				
Fuse rating A 400 Fuse class J	Г	nigh fauit	Chart aircuit aurrant	IzΛ	100
Standard fault Short circuit current kA 10 Fuse rating A 400 Fuse class RK5					
Standard fault			_	А	
Short circuit current Fuse rating Fuse rating Fuse rating Fuse class RK5	_	No. 1. 16. 16	Fuse class		
Fuse rating Fuse class RK5	8	Standard fault	01 - 4 - 1 - 2		4.0
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 3				А	
Operating temperature	A 12 a Par		Fuse class		RK5
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					
min min max °C -40 max -40 max -60 max 70 Storage temperature min °C -50 max °C 80 Max altitude m 3000 Resistance & Protection Pollution degree 3					
max °C 70 Storage temperature min °C -50 max °C 80 Max altitude m 3000 Resistance & Protection 3	C	Operating temperature			
Storage temperature min or company or c					
min min max °C max -50 max Max altitude m 3000 Resistance & Protection Pollution degree 3	_		max	°C_	70
Max altitudemax°C80Resistance & Protectionm3000Pollution degree3	S	Storage temperature			
Max altitude m 3000 Resistance & Protection Pollution degree 3					
Resistance & Protection Pollution degree 3			max	°C	
Pollution degree 3				m	3000
Dimensions					3
	Dimensions				

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Wiring diagrams



Certifications and compliance

Certificates

cULus

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching