



			May we
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		100	
Operational modulatory	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	IIIax	A	275
		A	213
Operational current le	AO 4 (<40°O)	Δ.	075
	AC-1 (≤40°C)	A	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-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			
poloo iii oolioo	≤24V	Α	275
	48V	A	275
	75V	A	275
	110V	A	170
	220V	A	150
	330V	A	150
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series	330 V		100
ILO max current le in DOT with L/K > mis with 4 poles in series	~0.A\/	٨	275
	≤24V	A	275
	48V	A	275
	75V	A	275
	110V	Α	275



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	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	2201	- , ,	
120 max current to in 200 200 mai 2/(2 Tome mai 2 poloo in conce	≤24V	Α	275
	48V	A	275
	75V	A	180
	110V	A	140
	220V	A	100
IFC many assemble in DC2 DC5 with L/D < 45 may with 2 males in acrise	220 V	A	100
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	40.4) /	^	075
	≤24V	Α	275
	48V	Α	275
	75V	Α	180
	110V	Α	160
	220V	Α	140
	330V	Α	100
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	Α	275
	48V	Α	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)	aw (ILO)	A	1658
Breaking capacity at voltage			1000
breaking capacity at voltage	440V	Α	1658
	500V	A	1326
Desire the second of the second of	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	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			
2 p 2 · 2 · 13 p 20 · 10 · 1	normal		Vertical plan
	Hollilal		vertical platt



BF195T4E024

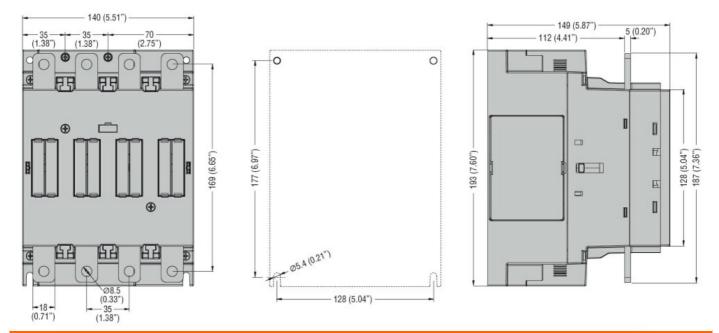
Existing Screw Weight We			allowable		±30°
Operations Cycles 10000000 Electrical life cycles 10000000 Salety related data rated load cycles 10000000 Performance level B10d according to EN/ISO 13489-1 rated load cycles 10000000 EMC contractions min v 24 Rated AC voltage at 50/60Hz, 60Hz min v 24 AC operating voltage min v 24 AC operating voltage min v 24 according voltage min v 24 according voltage min v 0 0 according voltage min v 0 <td>Fixing</td> <td></td> <td></td> <td></td> <td>Screw</td>	Fixing				Screw
Electrical life	Weight			g	4000
Electrical life	Operations				
Safety related data Performance level BI10 according to EN/ISO 13489-1 rated load cycles 1000000	Mechanical life			cycles	10000000
Performance level B10d according to EN/ISO 13489-1 rated load cycles 1000000	Electrical life			cycles	1000000
EMC compatibility yes yes	Safety related data				
EMC compatibility AC coll operating Rated AC Voltage at 50/60Hz, 60Hz Rated AC Voltage at 50/60Hz, 60Hz AC operating voltage of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up min	Performance level B10	d according to EN/ISO 13489-1			
Rated AC voltage at 50/60Hz, 60Hz min V 24 max V 60			rated load	cycles	1000000
Rated AC voltage at 50/60Hz, 60Hz min V 24 min AC operating voltage prick-up min %Us 80 Us min AC operating voltage min %Us 80 Us min Action of 50/60Hz coil powered at 60Hz min %Us \$80 Us min Action of 50/60Hz coil powered at 60Hz min %Us \$110 Us max Action of 50/60Hz coil powered at 50Hz min %Us \$70 Us min ACtion of 50/60Hz coil powered at 50Hz in-rush VA 160230 Action of 50/60Hz coil powered at 60Hz in-rush VA 160230 Action of 60Hz coil powered at 60Hz in-rush VA 160230 Action of 60Hz coil powered at 60Hz in-rush VA 160230 Action of 60Hz coil powered at 60Hz in-rush VA 160230 Action of 60Hz coil powered at 60Hz in-rush VA 160230 Action of 60Hz coil powered at 60Hz in-rush VA 1.53.0 DC coil operating VA 1.53.0					yes
March Mar					
AC operating voltage of 50/60Hz coil powered at 50Hz pick-up min max	Rated AC voltage at 50	0/60Hz, 60Hz			
AC operating voltage			min		
of 50/60Hz coil powered at 50Hz pick-up min max wus store in 10 us max drop-out max wus store in 10 us max drop-out max wus store in 10 us max drop-out min max wus store in 10 us max max wus store in 10 us max drop-out min max wus store in 10 us max drop-out in-rush wus 160230 holding vus 153.0 of 50/60Hz coil powered at 60Hz in-rush wus 160230 holding vus 153.0 of 60Hz coil powered at 60Hz in-rush wus 160230 holding vus 153.0 Dissipation at holding ≤20°C 50Hz DC coil operating DC rated control voltage pick-up min vus 20 max vus 600 DC operating voltage pick-up min max wus 85 us min max drop-out max wus 85 us min max wus store in 10 us max max wus store in 11 us max max wus store in 10 us			max	V	60
Pick-up Pick-up Pick	AC operating voltage				
Max of the second control work of the second consumption at 20°C Max of the second control work of the second control work of the second consumption at 20°C Max of the second control work of the second c		-			
Max Mus Mus		pick-up			
Max Max					
Max Mus Mus			max	%Us	110 Us max
of 50/60Hz coil powered at 60Hz pick-up min max wus wus wus with the pick-up min max wus		drop-out		0/11	.=0.11
Pick-up		4-2/2	max	%Us	≤/0 Us min
Max Max		·			
Max Max		ріск-ир		0/11-	00.11
AC average coil consumption at 20°C For 50/60Hz coil powered at 50Hz For 50/60Hz coil powered at 50Hz For 50/60Hz coil powered at 50Hz For 50/60Hz coil powered at 60Hz For 50/60H					
Max %Us ≤70 Us min AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush holding VA 153.0 VA 160230 holding VA 1.53.0 of 50/60Hz coil powered at 60Hz in-rush holding VA 1.53.0 VA 160230 holding VA 1.53.0 of 60Hz coil powered at 60Hz in-rush holding VA 1.53.0 VA 160230 holding VA 1.53.0 Dissipation at holding ≤20°C 50Hz w 1.53.0 w 1.53.0 DC coil operating min V 20 max V 60 v 60 DC operating voltage min Wus 85 Us min max wus wus 110 Us max wus wus 410 Us max wus 410 Us max wus wus 410 Us max wus wus 410 Us max wus 410 Us max wus wus 410 Us max wus wus 410 Us max wus 410 Us max wus wus 410 Us max		drop out	max	%US	110 US max
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 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 20 max V 60 DC operating voltage min %Us 85 Us min max wus wus wus wus wus drop-out max wus √70 Us min Average coil consumption ≤20°C In-rush W 160230 holding W 1.53.0 Max cycles frequency wus		drop-out	may	0/ L lo	<70 He min
of 50/60Hz coil powered at 50Hz in-rush holding	AC average coil conqu	motion at 20°C	Шах	%US	≥/U US IIIIII
In-rush holding	AC average con consu				
holding		or 50/60Hz coil powered at 50Hz	in ruch	١/٨	160 220
of 50/60Hz coil powered at 60Hz in-rush holding VA 160230 holding VA 160230 VA 1.53.0 of 60Hz coil powered at 60Hz in-rush holding VA 160230 VA 1.53.0 Dissipation at holding ≤20°C 50Hz W 1.53.0 DC coil operating DC rated control voltage min V 20 max V 60 DC operating voltage min Max VUs 85 Us min max VUs 110 Us max drop-out max 9Us 570 Us min Average coil consumption ≤20°C in-rush Max vycles frequency W 160230 holding W 1.53.0					
in-rush holding		of 50/60Hz coil powered at 60Hz	Holding	V/\	1.55.0
holding VA 1.53.0 of 60Hz coil powered at 60Hz		of 30/00112 con powered at 00112	in-rush	\/Δ	160 230
of 60Hz coil powered at 60Hz in-rush holding 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 20 max V 60 DC operating voltage pick-up min max WUs 85 Us min max WUs 110 Us max drop-out max WUs ≤70 Us min Average coil consumption ≤20°C in-rush W 160230 holding W 1.53.0					
in-rush holding		of 60Hz coil powered at 60Hz	Holding	٧/١	1.00.0
Dissipation at holding ≤20°C 50Hz W 1.53.0 DC coil operating W 1.53.0 DC rated control voltage min V 20 20 20 20 20 20 20 20 20 20 20 20 20		3. 33. 12 3311 portorod at 301 12	in-rush	VA	160230
Dissipation at holding ≤20°C 50Hz W 1.53.0 DC coil operating DC rated control voltage min V 20 max V 60 DC operating voltage pick-up min Max WUs 85 Us min max WUs 110 Us max drop-out max WUs ≤70 Us min Average coil consumption ≤20°C Max cycles frequency in-rush Molding W 153.0					
DC coil operating DC rated control voltage min v 20 max v 60 DC operating voltage min min max vuls sequence pick-up min max vuls sequence drop-out max vuls sequence Average coil consumption ≤20°C in-rush vuls sequence vuls sequence Max cycles frequency W 160230 holding vuls sequence	Dissipation at holding	20°C 50Hz	9		
DC rated control voltage min max V 20 max V 60 DC operating voltage min max %Us 85 Us min max drop-out max %Us 110 Us max Average coil consumption ≤20°C in-rush W 160230 holding W 1.53.0 Max cycles frequency					
DC operating voltage min max V max 20 max pick-up min max %Us 85 Us min max drop-out max %Us 110 Us max Average coil consumption ≤20°C in-rush max W 160230 holding Max cycles frequency Max cycles frequency		ie.			
max V 60 DC operating voltage min win wax %Us 85 Us min max Max %Us 110 Us max Max %Us ≤70 Us min In-rush holding W 160230 holding Max cycles frequency Max cycles frequency			min	V	20
DC operating voltage pick-up min max %Us %Us %Us 110 Us max drop-out max %Us ≤70 Us min Average coil consumption ≤20°C in-rush W 160230 holding W 1.53.0 Max cycles frequency Max cycles frequency					
pick-up min max %Us	DC operating voltage				_
min max %Us Mus Mus 85 Us min Mus drop-out max %Us ≤70 Us min Average coil consumption ≤20°C in-rush Mus W 160230 holding W 1.53.0 Max cycles frequency		pick-up			
drop-out max %Us ≤70 Us min Average coil consumption ≤20°C in-rush holding W 160230 holding Max cycles frequency W 1.53.0		•	min	%Us	85 Us min
max %Us ≤70 Us min Average coil consumption ≤20°C in-rush W 160230 holding W 1.53.0 Max cycles frequency			max	%Us	110 Us max
max %Us ≤70 Us min Average coil consumption ≤20°C in-rush W 160230 holding W 1.53.0 Max cycles frequency		drop-out			
in-rush W 160230 holding W 1.53.0 Max cycles frequency			max	%Us	≤70 Us min
in-rush W 160230 holding W 1.53.0	Average coil consumpt	ion ≤20°C			
Max cycles frequency	·		in-rush	W	160230
			holding	W	1.53.0
Mechanical operation cycles/h 1000	Max cycles frequency				
	Mechanical operation			cycles/h	1000



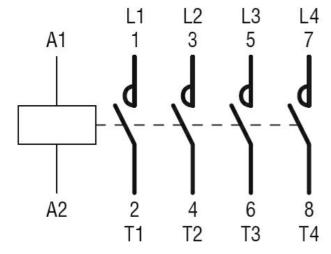
Operating times				
Average time for Us of	control			
_	in AC			
	Closing NO			
	ŭ	min	ms	50
		max	ms	100
	Opening NO			
	, ,	min	ms	35
		max	ms	75
UL technical data				-
Yielded mechanical p	erformance			
,	for three-phase AC motor			
	p	200/208V	HP	60
		220/230V	HP	75
		460/480V	HP	150
		575/600V	HP	150
General USE		07070001		
Ochciai OOL	Contactor			
	Contactor	AC current	Α	275
Short-circuit protectio	in fuse 600V	AC current		213
Short-circuit protectio	High fault			
	i ligit tadit	Short circuit current	kA	100
		Fuse rating	A	400
		Fuse class	^	400 J
	Standard fault	Fuse class		
	Standard fault	Short circuit current	kA	10
			A	400
		Fuse rating Fuse class	А	RK5
Ambient conditions		Fuse class		IXIXO
Temperature	Operating temperature			
	Operating temperature		۰.	40
		min	°C	-40 70
	Character and the second state of the second s	max	- C	70
	Storage temperature		۰.	F0
		min	°C	-50
Manadalanak		max		80
Max altitude	ion		m	3000
Resistance & Protect	ion —			2
Pollution degree				3
Dimensions				

ENERGY AND AUTOMATION

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 275A, AC/DC COIL, 24...60VAC - 20...60VDC



Wiring diagrams



Certifications and compliance

Certificates

cULus

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching