

			Mes and
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		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 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)			
1 1 - (/	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	220V	A	150
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	220V ≤24V		
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series		A A A	275 275





	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	A	275
	110V	A	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	Α	275
	75V	A	180
	110V	A	140
	220V	Α	100
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	≤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	A	275
	75V	A	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)	(-)	A	1658
Breaking capacity at voltage		, ,	
breaking capacity at voltage	440\/	۸	1650
	440V	A	1658
	500V	A	1326
	690V	Α	1377
Resistance per pole (average value)		mΩ	0.18
Power dissipation per pole (average value)			
	Ith	W	13
	AC-3	W	6.7
Tightening torque for terminals			-
	min	Nm	18
	max	Nm	18
	min	lbin	159
	max	Ibin	159



BF195T4E024

Electrical life	Tightoning torque for a	oil torminal			
Power terminal protection according to IEC/EN 60529 IPO0	rightening torque for c	on terminal	min	Nm	Λ 8
Power terminal protection according to IEC/EN 60529 P00					
Mechanical features	Power terminal protect	tion according to IFC/FN 60529	max	1 4111	
Operating position normal allowable Vertical plan allowable Fixing Screw Weight g 4000 Operations Mechanical life cycles 10000000 Electrical life cycles 10000000 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 AC coll operating voltage min %Us 80 Us min AC operating voltage min %Us 80 Us min Markety min %		ion about any to 120/214 00020			11 00
Prize Pri					
Screw Screw Screw Screw Screw Weight Sq. d. 4000 Sq. d.	operating position		normal		Vertical plan
Fixing Screw Weight g 4000 Operations Mechanical life cycles 10000000 Electrical life cycles 10000000 Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 1000000 EMC compatibility yes AC coil operating min V 24 Max V 60 AC operating voltage af 50/60Hz coil powered at 50Hz pick-up min %Us 80 Us min Max %Us ≤70 Us min of 50/60Hz coil powered at 60Hz pick-up min %Us ≤70 Us min AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush va %Us ≤70 Us min AC average coil consumption at 20°C of 50/60Hz coil powered at 60Hz in-rush va VA 160230 holding VA 1.53.0 1.53.0 holding VA 1.53.0 1.53.0 1.53.0 Descrit dontrol voltage min-rush va A 1602					
Weight	Fixing				
Operations Mechanical life cycles 10000000 Electrical life cycles 10000000 Safety related data rated load cycles 10000000 EMC compatibility rated load cycles 10000000 EMC compatibility yes AC coll operating min V 24 Max V 24 24 max %Us 80 Us min Max %Us 80 Us min Max %Us \$70 Us min of 50/60Hz coil powered at 60Hz min %Us \$80 Us min Max %Us \$70 Us min AC average coil consumption at 20°C fof 50/60Hz coil powered at 50Hz in-rush %Us \$70 Us min AC average coil consumption at 20°C fof 50/60Hz coil powered at 60Hz in-rush VA 160230 holding VA 153.0 VA 160230 holding VA 153.0 VA 153.0 Di				a	
Mechanical life					
Electrical life cycles 1000000 Safety related data Performance level B10d according to EN/ISO 13489-1 EMC compatibility rated load cycles 1000000 EMC conpatibility yes AC coll operating Rated AC voltage at 50/60Hz, 60Hz 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 110 Us max drop-out max %Us 570 Us min max %Us 110 Us max drop-out max %Us 570 Us min max %Us 110 Us max drop-out max %Us 570 Us min max %Us 110 Us max drop-out max %Us 570 Us min max %Us 570 Us min max max %Us 570 Us min max max %Us 570 Us min max	Mechanical life			cycles	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 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 min max wus sous in under the foliage in the foliage	Safety related data				
EMC compatibility yes AC coil 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 for 50/60Hz coil powered at 60Hz pick-up of 50/60Hz coil powered at 60Hz pick-up for 50/60Hz coil powered at 60Hz pick-up anax %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 \$110 Us max drop-out max %Us \$70 Us min AC average coil consumption at 20°C of 50/60Hz coil powered at 60Hz of 50/60Hz coil powered at 60Hz 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 C coil operating DC rated control voltage min V 20 max V 60 DC operating voltage		od according to EN/ISO 13489-1			
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 max %Us 110 Us max drop-out 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 570 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 Dissipation at holding ≤20°C 50Hz W 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 V 20 max V 60 DC operating voltage Min V 20 max V 60 DC operating voltage Min V 20 max V 60 DC operating voltage Min V 20 max V 60 DC operating voltage Min V 20 max V 60 DC operating voltage Min V 20 max V 60 DC operating voltage Min V 20 max V 60 DC operating voltage Min V 20 max V 60 DC operating voltage Min V 20 max V 60 DC operating voltage Min V 20 max V 60 DC operating voltage Min V 20 max V 60 DC operating voltage Min V 20 max V 60 DC operating voltage Min V 20 max V 60 DC operating voltage Min V 20 max V 60 DC operating voltage Min V 20 max V 60 DC operating voltage Min V 20 max V 60 DC operating voltage Min V 20 max V 60 DC operating voltage Min V 20 max V 60 DC operating voltage Min V 20 max V 60 DC		ŭ	rated load	cycles	1000000
AC coil operating Rated AC voltage at 50/60Hz, 60Hz min V 24 max V 60	EMC compatibility				ves
Rated AC voltage at 50/60Hz, 60Hz min					
Max	3	0/60Hz, 60Hz			
AC operating voltage of 50/60Hz coil powered at 50Hz pick-up min wus wus sol Us min max wus sol Us min wus sol Us min max wus sol Us max wus sol Us min max wus sol Us max wus sol Us min max wus sol Us	Ŭ		min	V	24
of 50/60Hz coil powered at 50Hz pick-up min			max	V	60
Pick-up min %Us 80 Us min max %Us 110 Us max Mus Mu	AC operating voltage				
Min Mount		of 50/60Hz coil powered at 50Hz			
Max Mus 110 Us max		pick-up			
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 Mus			min	%Us	80 Us min
Max %Us ≤70 Us min			max	%Us	110 Us max
of 50/60Hz coil powered at 60Hz pick-up min		drop-out			
Pick-up min max %Us 80 Us min max %Us 110 Us max Mus			max	%Us	≤70 Us min
Min Moderate Mo		of 50/60Hz coil powered at 60Hz			
Max Mus 110 Us max		pick-up			
AC average coil consumption at 20°C Of 50/60Hz coil powered at 50Hz In-rush holding VA 160230 holding VA 1.53.0			min	%Us	80 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 50/60Hz coil powered at 60Hz in-rush 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			max	%Us	110 Us max
AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush		drop-out			
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 DC coil operating DC rated control voltage min V 20 max V 60 DC operating voltage			max	%Us	≤70 Us min
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 DC operating voltage DC operating voltage VA VA VA VA VA VA VA V	AC average coil consu	•			
holding VA 1.53.0 of 50/60Hz coil powered at 60Hz in-rush holding VA 160230 holding VA 1.53.0 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 V 1.53.0 DC coil operating DC rated control voltage min V 20 max V 60 V 20 max V 60 DC operating voltage DC operating voltage DC operating voltage V 0 0		of 50/60Hz coil powered at 50Hz			
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 DC coil operating DC rated control voltage min V 20 max V 60 DC operating voltage					
in-rush VA 160230 holding VA 1.53.0			holding	VA	1.53.0
holding VA 1.53.0		of 50/60Hz coil powered at 60Hz			
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					
in-rush		(0011 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	holding	VA	1.53.0
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		of 60Hz coil powered at 60Hz			400 000
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					
DC coil operating DC rated control voltage min V 20 max V 60 DC operating voltage	D: : :: (1 1 1 2	40000 FOLL	holding		
DC rated control voltage min V 20 max V 60 DC operating voltage		\$20°C 50Hz		VV	1.53.0
min V 20 max V 60 DC operating voltage					
DC operating voltage	DC rated control voltag	ge		17	20
DC operating voltage					
	DO		max	V	60
pick-up	DC operating voltage				
		pick-up		04	
min %Us 85 Us min					
max %Us 110 Us max			max	%Us	110 Us max

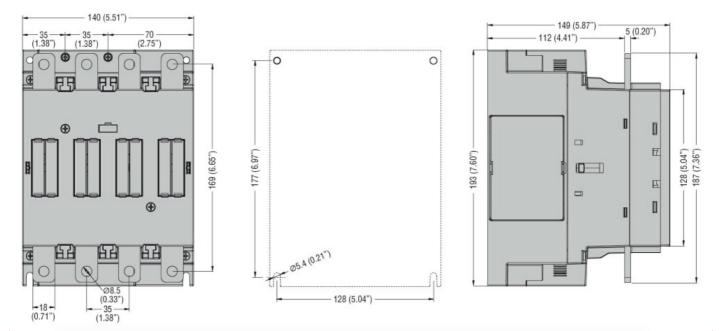




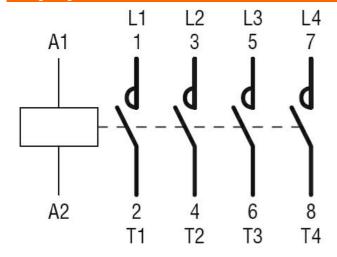
	drop-out			
	diop-out	max	%Us	≤70 Us min
Average coil consumpti	on ≤20°C			
		in-rush	W	160230
		holding	W	1.53.0
Max cycles frequency				
Mechanical operation			cycles/h	1000
Operating times				
Average time for Us cor				
	in AC			
	Closing NO			
		min	ms	50
	On anima NO	max	ms	100
	Opening NO	min	ms	35
		max	ms	75
UL technical data		IIIdX	1113	, ,
Yielded mechanical per	formance			
	for three-phase AC motor			
	To the phase he moter	200/208V	HP	60
		220/230V	HP	75
		460/480V	HP	150
		575/600V	HP	150
General USE				
	Contactor			
		AC current	Α	275
Short-circuit protection f	fuse, 600V			
	High fault			
		Short circuit current	kA	100
		Fuse rating	Α	400
		Fuse class		J
	Standard fault			4.0
		Short circuit current	kA	10
		Fuse rating	Α	400
Ambient conditions		Fuse class		RK5
Temperature				
-	Operating 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
Dimensions				

ENERGY AND AUTOMATION

CONTACTEUR TÉTRAPOLAIRE, COURANT DE FONCTIONNEMENT IEC ITH (AC1) = 275A, AVEC BOBINE AC/DC, 24...60VAC - 20...60VDC



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