BF160T4E400



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



			the are
Product designation			Power contacto
Product type designation			BF160
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		А	250
Operational current le			
	AC-1 (≤40°C)	А	250
	AC-1 (≤55°C)	А	210
	AC-1 (≤70°C)	А	180
	AC-3 (≤440V ≤55°C)	А	160
	AC-4 (400V)	А	75
Rated operational current AC-3 (T≤55°C)			
	230V	А	160
	400V	А	160
	415V	А	160
	440V	А	160
	500V	А	150
	690V	А	135
	1000V	А	60
Rated operational power AC-1 (T≤40°C)			
	230V	kW	95
	400V	kW	165
	500V	kW	181
	690V	kW	284
IEC max current le in DC1 with $L/R \le 1$ ms with 1 poles in series			
	≤24V	А	250
	48V	А	250
	75V	А	250
	110V	А	110
	220V	Α	_
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	≤24V	А	250
	48V	А	250
	75V	А	250
	110V	А	150
	220V	А	130
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			
	≤24V	А	250
	48V	А	250
	75V	А	250

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	110V	А	160
	220V	А	150
	330V	А	130
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series			
	≤24V	А	250
	48V	А	250
	75V	А	250
	110V	А	250
	220V	А	275
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			-
	≤24V	А	250
	48V	A	250
	75V	A	160
	110V	A	80
	220V	A	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	220 V	~	
	≤24V	А	250
	≤24V 48V	A	250
	48V 75V	A	160
	110V	A	120
	220V	A	90
$\frac{1}{100}$ mere summer to in DC2 DC5 with $1/D < 45$ mere with 2 meters in equipa	2200	A	90
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 3 poles in series	<0.011	٨	050
	≤24V	A	250
	48V	A	250
	75V	A	160
	110V	A	140
	220V	A	120
	330V	A	90
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 4 poles in series	-0 U (		
	≤24V	A	250
	48V	A	250
	75V	A	160
	110V	A	140
	220V	A	140
	330V	A	140
	460V	A	90
Short-time allowable current for 10s (IEC/EN60947-1)		Α	1280
Protection fuse			
	gG (IEC)	A	315
	aM (IEC)	А	200
Making capacity (RMS value)		А	1360
Breaking capacity at voltage			
	440V	А	1360
	500V	А	1326
	690V	Α	1139
Resistance per pole (average value)		mΩ	0.18
Power dissipation per pole (average value)			
	lth	W	11
	AC-3	W	4.5
Tightening torque for terminals			
	min	Nm	18
	max	Nm	18
	min	Ibin	159
	max	Ibin	159

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Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
Dower terminal protection according to IEC/EN 60520	IIIdX	INIII	IP00
Power terminal protection according to IEC/EN 60529			IP00
Operating position	in a view of		Vertical plan
	normal		Vertical plan
<b>F</b> 1	allowable		±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	250
	max	V	500
AC operating voltage			
of 50/60Hz coil powered at 50Hz			
pick-up			
pion up	min	%Us	80 Us min
	max	%Us	110 Us max
drop-out	Шах	/000	110 00 max
	min	%Us	20
	max	%Us	≤70 Us min
of 50/60Hz coil powered at 60Hz	Παλ	/003	270 03 mm
pick-up	min	%Us	80 Us min
	min		110 Us max
dana aut	max	%Us	TTU US max
drop-out		0/11	
	min	%Us	20
	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	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	<u></u>	W	1.53.0
DC coil operating			
DC rated control voltage			
	min	V	250
	max	V	500
DC operating voltage	max	v	500

pick-up

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TING CURRENT ITH (AC1) = 250A, AC/D	C COIL, 250	
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			min max	%Us %Us	85 Us min 110 Us max
	drop-out		IIIdX	/005	TTO US MAX
			max	%Us	≤70 Us min
Average coil consu	mption ≤20°C				
			in-rush	W	160230
			holding	W	1.53.0
Max cycles frequen					1000
Mechanical operatic Operating times	n			cycles/h	1000
Average time for Us	s control				
Average time for Us	in AC				
		Closing NO			
		g	min	ms	50
			max	ms	100
		Opening NO			
			min	ms	35
			max	ms	75
UL technical data					
Yielded mechanical					
	for three-phase AC m	otor	000/0001/		50
			200/208V 220/230V	HP HP	50
			460/480V	HP	60 125
			400/480V 575/600V	HP	150
General USE			010/0001		100
	Contactor				
			AC current	А	250
Short-circuit protect	tion fuse, 600V				
	High fault				
			Short circuit current	kA	100
			Fuse rating	А	400
			Fuse class		J
	Standard fault		Object all the little in the	1. 4	4.0
			Short circuit current	kA ^	10
			Fuse rating Fuse class	A	400 RK5
Ambient conditions					
Temperature					
	Operating temperatur	е			
			min	°C	-40
			max	°C	70
	Storage temperature				
			min	°C	-50
			max	°C	80
Max altitude				m	3000
Resistance & Prote	ction				
Pollution degree					3
Dimensions					

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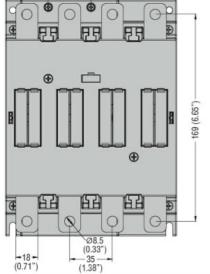
ENERGY AND AUTOMATION

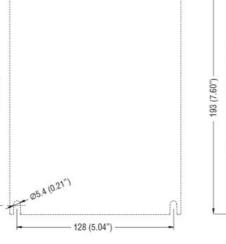
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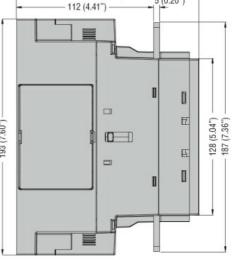
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500VAC/DC

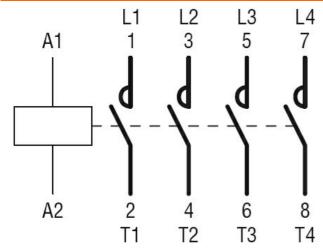




177 (6.97")



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