



Product designation Product type designation			Power contactor BF160
Contact characteristics			B1 100
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	250
Operational current le			
•	AC-1 (≤40°C)	Α	250
	AC-1 (≤55°C)	Α	210
	AC-1 (≤70°C)	Α	180
	AC-3 (≤440V ≤55°C)	Α	160
	AC-4 (400V)	Α	75
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 ≤ 1ms with 1 poles in series			
	≤24V	Α	250
	48V	Α	250
	75V	Α	250
	110V	Α	110
	220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
	≤24V	Α	250
	48V	Α	250
	75V	Α	250
	110V	Α	150
	220V	Α	130
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
	≤24V	Α	250
	48V	Α	250
	75V	Α	250
	110V	Α	160
	220V	Α	150
	330V	Α	130
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	Α	250
	40\/	Α	250
	48V		
	75V 110V	A A	250 250 250



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	220V	Α	250
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	Α	250
	48V	Α	250
	75V	Α	160
	110V	Α	80
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	Α	250
	48V	Α	250
	75V	Α	160
	110V	A	120
	220V	A	90
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	220 V		30
TEC max current le in DC3-DC3 with E/N 3 13ms with 3 poles in series	≤24V	Α	250
	≤24 V 48 V		
		A	250
	75V	A	160
	110V	A	140
	220V	Α	120
	330V	Α	90
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	Α	250
	48V	Α	250
	75V	Α	160
	110V	Α	140
	220V	Α	140
	330V	Α	140
	460V	Α	90
Short-time allowable current for 10s (IEC/EN60947-1)		Α	1280
Protection fuse			
	gG (IEC)	Α	315
	aM (IEC)	Α	200
Making capacity (RMS value)	•	Α	1360
Breaking capacity at voltage			
	440V	Α	1360
	500V	Α	1326
	690V	Α	1139
Resistance per pole (average value)		mΩ	0.18
Power dissipation per pole (average value)		22	0.1.0
. S. S. S. S. S. Para Para (avorage value)	Ith	W	11
	AC3	W	4.5
Tightoning targue for terminals	A03	VV	4.5
Tightening torque for terminals	:	Nice	10
	min	Nm	18
	max	Nm	18
	min	Ibin	159
<del></del>	max	Ibin	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		Vertical plan



BF160T4E230

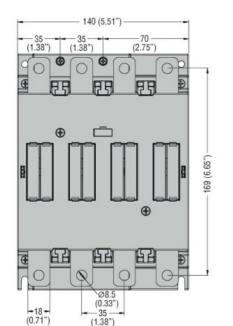
	allowable		±30°
Fixing			Screw
Weight		g	4000
Operations			
Mechanical life		cycles	10000000
Electrical life		cycles	1000000
Safety related data		·	
Performance level B10d according to EN/ISO 13489-1			
•	rated load	cycles	1000000
EMC compatibility			yes
AC coil operating			
Rated AC voltage at 50/60Hz, 60Hz			
,	min	V	100
	max	V	250
AC operating voltage		<del>-</del>	
of 50/60Hz coil powered at 50Hz			
pick-up			
ριοίτ αρ	min	%Us	80 Us min
	max	%Us	110 Us max
drop-out	Παλ	7003	110 03 1114
αιορ-οαι	max	%Us	≤70 Us min
of 50/60Hz coil powered at 60Hz	IIIdA	/003	_, o os iiiii
pick-up			
ριοκ-αρ	min	%Us	80 Us min
	max	%Us	110 Us max
drop-out	Παλ	/003	110 05 max
drop-out	max	%Us	≤70 Us min
AC average coil consumption at 20°C	IIIax	/003	370 03 11111
of 50/60Hz coil powered at 50Hz			
of 50/00112 coll powered at 50112	in-rush	VA	160230
		VA VA	1.53.0
of EO/COLLT and powered at COLLT	holding	VA	1.55.0
of 50/60Hz coil powered at 60Hz	in ruch	١/٨	160230
	in-rush	VA	
. ( 0011	holding	VA	1.53.0
of 60Hz coil powered at 60Hz		١/٨	160 000
	in-rush	VA	160230
Disability of the Albertain of 2000 COLD	holding	VA	1.53.0
Dissipation at holding ≤20°C 50Hz		W	1.53.0
OC coil operating			
DC rated control voltage			400
	min	V	100
	max	V	250
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	160230
	holding	W	1.53.0
	3		
Max cycles frequency			

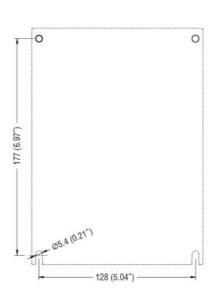


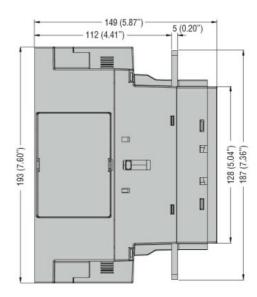
Operating times				
Average time for Us co	ontrol			
_	in AC			
	Closing NO			
	C	min	ms	50
		max	ms	100
	Opening NO			
	, ,	min	ms	35
		max	ms	75
UL technical data				
Yielded mechanical pe	erformance			
	for three-phase AC motor			
		200/208V	HP	50
		220/230V	HP	60
		460/480V	HP	125
		575/600V	HP	150
General USE		0.0,000.		
00110141 002	Contactor			
	Comado	AC current	Α	250
Short-circuit protection	fuse 600V	710 00110111	- , ,	
Criore official protoction	High fault			
	riigiriaan	Short circuit current	kA	100
		Fuse rating	A	400
		Fuse class	^	J
	Standard fault	1 430 01433		
	Glandard radit	Short circuit current	kA	10
		Fuse rating	A	400
		Fuse class		RK5
Ambient conditions		1 400 01433		1110
Temperature			<u> </u>	
Tomporature	Operating temperature			
	operating temperature	min	°C	-40
		max	°C	70
	Storage temperature	παλ		7.0
	Otorage temperature	min	°C	-50
		max	°C	-50 80
Max altitude		IIIdX		3000
Resistance & Protection	nn		m	3000
Pollution degree	,			3
Dimensions [mm (in)]				J
Dimensions [mm (m)]				

**ENERGY AND AUTOMATION** 

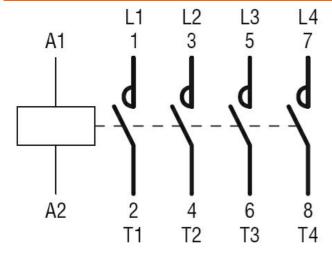
## CONTACTEUR TÉTRAPOLAIRE, COURANT DE FONCTIONNEMENT IEC ITH (AC1) = 250A, AVEC BOBINE AC/DC, 100...250VAC/DC







#### 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