



			S. S. S.
Product designation			Power contactor
Product type designation			BF230
Contact characteristics		Nie	1
Number of poles		Nr. V	1000
Rated insulation voltage Ui IEC/EN Rated impulse withstand voltage Uimp		kV	8
Operational frequency		K V	0
Operational frequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	IIIdX	A	350
Operational current le			330
operational outrone to	AC-1 (≤40°C)	Α	350
	AC-1 (≤55°C)	A	290
	AC-1 (≤70°C)	Α	250
	AC-3 (≤440V ≤55°C)	Α	230
	AC-4 (400V)	Α	110
Rated operational current AC-3 (T≤55°C)	- ( /		
,	230V	Α	230
	400V	Α	230
	415V	Α	230
	440V	Α	230
	500V	Α	184
	690V	Α	165
	1000V	Α	100
Rated operational power AC-1 (T≤40°C)			
	230V	kW	132
	400V	kW	230
	500V	kW	253
	690V	kW	397
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
	≤24V	Α	350
	48V	A	350
	75V	A	350
	110V	A	145
IEC may autrent to in DC1 with L/D < 1 mg with 2 notes in series	220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	<241/	۸	250
	≤24V 48V	A	350 350
	48 V 75 V	A A	350 350
	110V	A	270
	220V	A	225
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	2201		220
TEO MAX SUITOR TO IT DOT WILL ETT = THO WILL O POICS III SELIES	≤24V	Α	350
	48V	A	350
	75V	A	350
	, 5 v	, ,	555



	110V	Α	270
	220V	Α	270
	330V	Α	225
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
· ·	≤24V	Α	350
	48V	Α	350
	75V	Α	350
	110V	Α	350
	220V	Α	350
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	Α	350
	48V	Α	350
	75V	A	250
	110V	A	135
	220V	A	- -
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	220 V		
ILC max current le in DC3-DC3 with L/N 3 13ms with 2 poles in series	≤24V	Α	350
	≤24 V 48 V	A	350
	48 V 75 V		
		A	250
	110V	A	225
150	220V	A	180
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	40.4V./	Δ.	050
	≤24V	A	350
	48V	Α	350
	75V	Α	250
	110V	Α	250
	220V	Α	225
	330V	A	180
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	Α	350
	48V	Α	350
	75V	Α	250
	110V	Α	250
	220V	Α	225
	330V	Α	210
	460V	Α	180
Short-time allowable current for 10s (IEC/EN60947-1)		Α	1840
Protection fuse			
	gG (IEC)	Α	400
	aM (IEC)	Α	250
Making capacity (RMS value)		Α	2300
Breaking capacity at voltage			
	440V	Α	1840
	500V	Α	1472
	690V	Α	1296
Resistance per pole (average value)		mΩ	0.18
Power dissipation per pole (average value)			
	Ith	W	21
	AC-3	W	9.3
Tightening torque for terminals			
	min	Nm	18
	max	Nm	18
	min	lbin	159
	max	lbin	159
	Παλ	IDIII	100

BF230T4E230

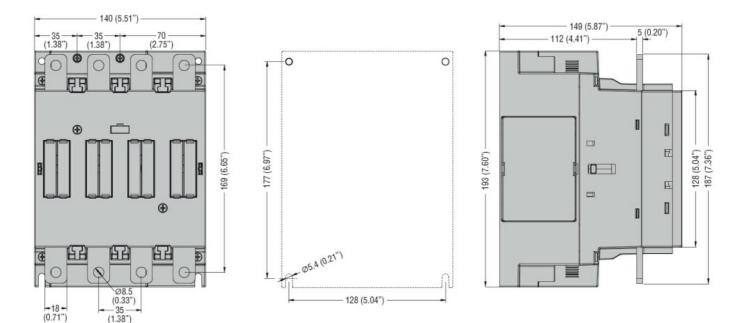
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
Power terminal protection according to IEC/EN 60529			IP00
Mechanical features			
Operating position			
	normal		Vertical plan
	allowable		±30°
Fixing			Screw
Veight		g	4000
Operations			
Mechanical life		cycles	10000000
Electrical life		cycles	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			
p.o 4p	min	%Us	80 Us min
	max	%Us	110 Us max
drop-out	max	7000	110 00 max
Grop out	max	%Us	≤70 Us min
of 50/60Hz coil powered at 60Hz	тах	7000	=7 0 00 mm
pick-up			
ριοκ αρ	min	%Us	80 Us min
	max	%Us	110 Us max
drop-out	IIIdA	/003	110 03 max
diop-out	max	%Us	≤70 Us min
AC average coil consumption at 20°C	Παλ	/003	270 05 IIIII
· ·			
of 50/60Hz coil powered at 50Hz	مامين سيا	١/٨	160 000
	in-rush	VA	160230
of 50/001	holding	VA	1.53.0
of 50/60Hz coil powered at 60Hz	in much	١/٨	400 000
	in-rush	VA	160230
of coldens in a color of cold	holding	VA	1.53.0
of 60Hz coil powered at 60Hz		١/٨	100 000
	in-rush	VA	160230
D' ' ' ' ' ' '	holding	VA	1.53.0
Dissipation at holding ≤20°C 50Hz		W	1.53.0
OC coil operating			
DC rated control voltage			
	min	V	100
		\ /	250
	max	V	200
DC operating voltage	max	V	230
DC operating voltage pick-up	max		
	max min	V %Us	85 Us min



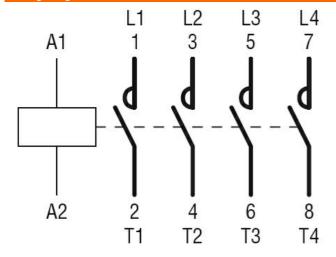
drop-out				
<u> </u>		max	%Us	≤70 Us min
Average coil consumption ≤20°C				
		in-rush	W	160230
		holding	W	1.53.0
Max cycles frequency				
Mechanical operation			cycles/h	1000
Operating times				
Average time for Us control				
in AC	Obstan NO			
	Closing NO			50
		min	ms	50
	Opening NO	max	ms	100
	Opening NO	min	ms	30
		max	ms	75
UL technical data		IIIdA	1110	. 5
Yielded mechanical performance				
-	phase AC motor			
	p. 1000 / 10 111010.	200/208V	HP	75
		220/230V	HP	75
		460/480V	HP	150
		575/600V	HP	200
General USE				
Contacto	r			
		AC current	Α	350
Short-circuit protection fuse, 600\	V			
High fault	t			
		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 BKF
Ambient conditions		Fuse class		RK5
Ambient conditions Temperature				
	g temperature			
Operating	y temperature	min	°C	-40
		max	°C	70
Storage t	emperature	IIIAX		. •
Clorage t		min	°C	-50
		max	°C	80
Max altitude			m	3000
Resistance & Protection				
Pollution degree				3
Dimensions				

**ENERGY AND AUTOMATION** 

#### CONTACTOR TETRAPOLAR, CORRIENTE DE OPERACIÓN IEC ITH (AC1) = 350A, BOBINA 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