



			- W
Product designation			Power contactor
Product type designation			BF230
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	350
Operational current le			
	AC-1 (≤40°C)	Α	350
	AC-1 (≤55°C)	Α	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	Α	350
	75V	Α	350
	110V	Α	145
	220V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
	≤24V	Α	350
	48V	Α	350
	75V	Α	350
	110V	Α	270
	220V	Α	225
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
	≤24V	Α	350
	48V	Α	350
	75V	Α	350



	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	A	350
	110V	A	350
150	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	Α	250
	110V	Α	135
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
'	≤24V	Α	350
	48V	Α	350
	75V	Α	250
	110V	A	225
150	220V	Α	180
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series		_	
	≤24V	Α	350
	48V	Α	350
	75V	Α	250
	110V	Α	250
	220V	Α	225
	330V	Α	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	A	225
	330V	A	210
	460V	A	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
		11122	0.10
Power dissipation per pole (average value)	Inl-	14/	0.4
	Ith	W	21
<del></del>	AC-3	W	9.3
Tightening torque for terminals			
	min	Nm	18
	max	Nm	18
	min	lbin	159
	max	Ibin	159



BF230T4E024

Tightening torque for coil terminal			
righterning torque for con 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
Weight		g	4000
Operations			
Mechanical life		cycles	10000000
Electrical life		cycles	1000000
Safety related data		- ,	
Performance level B10d according to EN/ISO 13489-1			
and the second s	rated load	cycles	1000000
EMC compatibility		0,0.00	yes
AC coil operating			,
Rated AC voltage at 50/60Hz, 60Hz			
	min	V	24
	max	V	60
AC operating voltage	Пих	v	
of 50/60Hz coil powered at 50Hz			
pick-up			
ριοκ-αρ	min	%Us	80 Us min
	max	%Us	110 Us max
drop-out	IIIdA	/003	110 03 max
Grop out	max	%Us	≤70 Us min
of 50/60Hz coil powered at 60Hz	Пих	7003	=7 0 00 Hilli
pick-up			
ριοκ αρ	min	%Us	80 Us min
	max	%Us	110 Us max
drop-out	Παλ	7003	110 03 max
urop-out	max	%Us	≤70 Us min
AC average coil consumption at 20°C	IIIdA	/003	=70 03 IIIII
of 50/60Hz coil powered at 50Hz			
of 50/00112 coll powered at 50112	in-rush	VA	160230
	holding	VA VA	1.53.0
of 50/60Hz coil powered at 60Hz	noiding	٧A	1.JJ.U
of 50/00Hz coll powered at 00Hz	in-rush	VA	160230
		VA VA	1.53.0
of 60Hz coil powered at 60Hz	holding	٧A	1.JJ.U
or our iz con powered at ouriz	in-rush	VA	160230
	holding	VA VA	1.53.0
Dissipation at holding <20°C 50Hz	noiding	W	1.53.0
Dissipation at holding ≤20°C 50Hz DC coil operating		VV	1.03.0
DC rated control voltage		17	20
	min	V	20
	max	V	60
DC operating voltage			
pick-up		0/17	05.11
pick-up	min max	%Us %Us	85 Us min 110 Us max

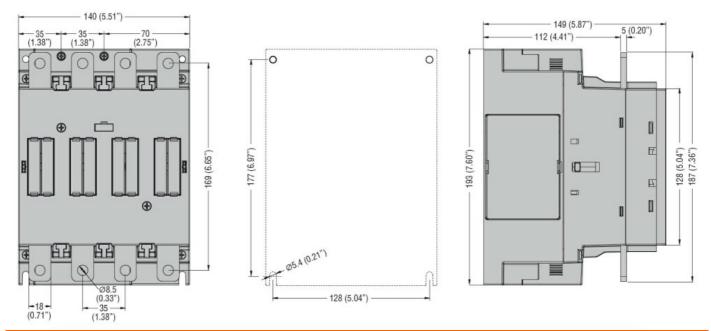




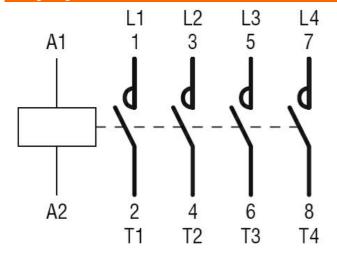
	drop-out			
	arop out	max	%Us	≤70 Us min
Average coil consump	tion ≤20°C			
		in-rush	W	160230
		holding	W	1.53.0
Max cycles frequency				
Mechanical operation			cycles/h	1000
Operating times	andro I			
Average time for Us co	in AC			
	Closing NO			
	Closing NO	min	ms	50
		max	ms	100
	Opening NO	max	1113	100
	Opening No	min	ms	30
		max	ms	75
UL technical data				
Yielded mechanical pe	erformance			
·	for three-phase AC motor			
	·	200/208V	HP	75
		220/230V	HP	75
		460/480V	HP	150
		575/600V	HP	200
General USE				
	Contactor			
		AC current	Α	350
Short-circuit protection				
	High fault			
		Short circuit current	kA	100
		Fuse rating	Α	400
	-	Fuse class		J
	Standard fault	01 ( )		4.0
		Short circuit current	kA	10
		Fuse rating	Α	400 RK5
Ambient conditions		Fuse class		CAN
Temperature				
romperature	Operating temperature			
	Sporating temperature	min	°C	-40
		max	°C	70
	Storage temperature	max		
		min	°C	-50
		max	°C	80
Max altitude			m	3000
Resistance & Protection	on			
Pollution degree				3
Dimensions				

**ENERGY AND AUTOMATION** 

## FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 350A, AC/DC COIL, 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