

			100
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			
operational module of	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	max	A	350
Operational current le			
Operational current le	AC-1 (≤40°C)	Α	350
	AC-1 (≤40 C) AC-1 (≤55°C)		290
	AC-1 (≤55 C) AC-1 (≤70°C)	A	
	AC-1 (≤70 C) AC-3 (≤440V ≤55°C)	A	250
	•	A	230
D-t1	AC-4 (400V)	Α	110
Rated operational current AC-3 (T≤55°C)	0001/	•	000
	230V	A	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	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	Α	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



BF230T4E110

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
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	60
	max	V	130
AC operating voltage	Пих	v	100
of 50/60Hz coil powered at 50Hz			
pick-up			
ріск-ир	min	%Us	80 Us min
		%Us	110 Us max
drop out	max	7008	110 05 max
drop-out	mov	%Us	≤70 Us min
of 50/60Hz coil powered at 60Hz	max	7005	270 08 111111
·			
pick-up		0/116	80 Us min
	min	%Us	
1	max	%Us	110 Us max
drop-out		0/11	-70.11
	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
9	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	60
	max	V	130
DC operating voltage	-		
pick-up			
L. 2 2L	min	%Us	85 Us min
	max	%Us	110 Us max
	max	, 500	

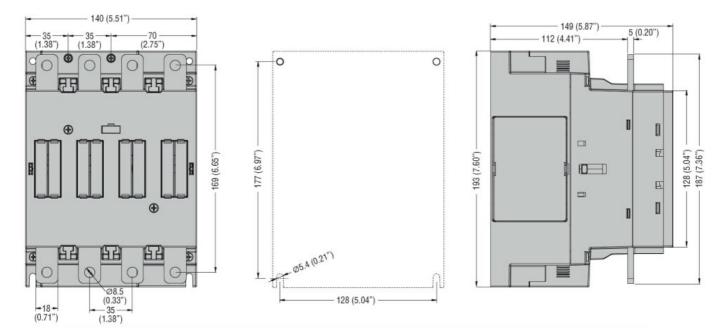




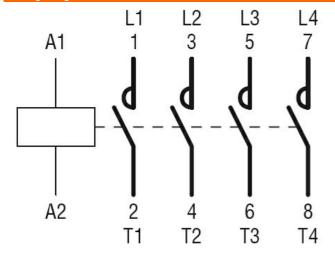
	drop-out	may	%Us	≤70 Us min
Average coil consump	tion <20°C	max	/005	270 OS IIIII
Average con consump	MOIT 320 C	in-rush	W	160230
		holding	W	1.53.0
Max cycles frequency				
Mechanical operation			cycles/h	1000
Operating times				
Average time for Us co	ontrol			
	in AC			
	Closing NO			
		min	ms	50
		max	ms	100
	Opening NO			20
		min	ms ms	30 75
UL technical data		max	ms	<i>ι</i> υ
Yielded mechanical pe	erformance			
. Islaca moonamou pe	for three-phase AC motor			
	ioi tinee phase No 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
	0(Fuse class		J
	Standard fault	Chart aircuit aurrant	LΛ	10
		Short circuit current	kA A	10 400
		Fuse rating Fuse class	A	RK5
Ambient conditions		1 435 61433		1110
Temperature				
3 - 2. 3.3. 5	Operating temperature			
		min	°C	-40
		max	°C	70
	Storage temperature			
		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, 60... 130VAC/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