



Product designation			Power contactor
Product type designation			BF230
Contact characteristics			
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operational frequency			
operational module to	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	max	A	350
Operational current le			330
Operational current le	AC 1 (<10°C)	۸	350
	AC-1 (≤40°C)	A	
	AC-1 (≤55°C)	A	290
	AC-1 (≤70°C)	A	250
	AC-3 (≤440V ≤55°C)	Α	230
	AC-4 (400V)	Α	110
Rated operational power AC-3 (T≤55°C)			
	230V	kW	55
	400V	kW	110
	415V	kW	110
	440V	kW	132
	500V	kW	132
	690V	kW	160
	1000V	kW	110
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			
120 max carrone to in 201 mar E/Y = 1110 mar 2 poloco in collect	≤24V	Α	350
	48V	A	350
	75V	A	350
	75V 110V	A	270
	220V	A	225
IEC may autropt to in DC1 with L/D < 1 may with 2 pales in series	ZZUV	Α	220
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	40 A) /	^	250
	≤24V	A	350
	48V	Α	350
	75V	Α	350



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	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
	220V	A	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	A	250
	110V	A	225
	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	A	350
	75V	A	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)	()	A	2300
Breaking capacity at voltage		,,	
breaking capacity at voltage	440\/	٨	1940
	440V	A	1840
	500V	A	1472
	690V	Α	1296
Resistance per pole (average value)		mΩ	0.18
Power dissipation per pole (average value)			
	Ith	W	21
	AC3	W	9.3
Tightening torque for terminals			-
	min	Nm	18
	max	Nm	18
	min	Ibin	159
	max	Ibin	159



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Tightening torque for c	oil terminal			
rigintering torque for c	on terminal	min	Nm	0.8
		max	Nm	1
Power terminal protect	tion according to IEC/EN 60529			IP00
Mechanical features				
Operating position				
1 01		normal		Vertical plan
		allowable		±30°
Fixing				Screw
Weight			g	3000
Operations				
Mechanical life			cycles	10000000
Electrical life			cycles	1000000
Safety related data			.,	
	Od according to EN/ISO 13489-1			
		rated load	cycles	1000000
EMC compatibility			-,	yes
AC coil operating				,
Rated AC voltage at 50	0/60Hz. 60Hz			
zu		min	V	24
		max	V	60
AC operating voltage		THOM:	•	
to operating venage	of 50/60Hz coil powered at 50Hz			
	pick-up			
	pion ap	min	%Us	80 Us min
		max	%Us	110 Us max
	drop-out	max	7000	110 00 max
	arop out	max	%Us	≤70 Us min
	of 50/60Hz coil powered at 60Hz		,,,,,	
	pick-up			
	Press SP	min	%Us	80 Us min
		max	%Us	110 Us max
	drop-out			
	•	max	%Us	≤70 Us min
AC average coil consu	imption at 20°C			
3	of 50/60Hz coil powered at 50Hz			
	, , , , , , , , , , , , , , , , , , , ,	in-rush	VA	160230
		holding	VA	1.53.0
	of 50/60Hz coil powered at 60Hz	<u></u>		
	,	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
OC coil operating				
DC rated control voltag	ge			
	-	min	V	20
		max	V	60
DC operating voltage				
, 5	pick-up			
	1 - · · · · · · · · · · · · · · · · · ·	min	%Us	85 Us min
		max	%Us	110 Us max

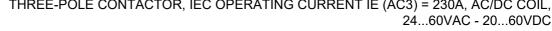


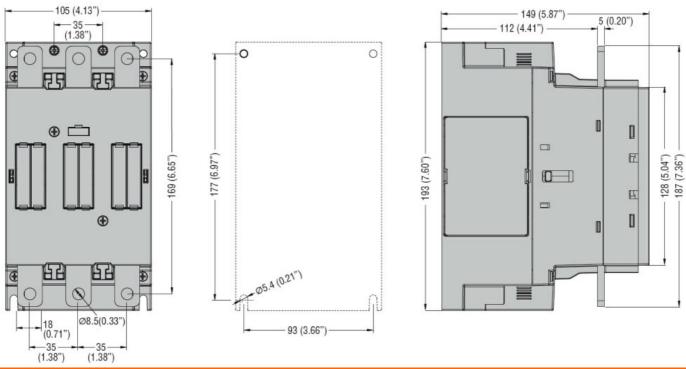


	drop-out			
		max	%Us	≤70 Us min
Average coil consump	tion ≤20°C			
		in-rush	W	160230
May avalos fraguesav		holding	W	1.53.0
Max cycles frequency Mechanical operation			cycles/h	1000
Operating times			cycles/fi	1000
Average time for Us of	ontrol			
rivorago ilino loi co o	in AC			
	Closing NO			
	· ·	min	ms	50
		max	ms	100
	Opening NO			
		min	ms	30
		max	ms	75
UL technical data	·			
Yielded mechanical pe				
	for three-phase AC motor	200/2001	LID	75
		200/208V 220/230V	HP HP	75 75
		460/480V	HP	75 150
		575/600V	HP	200
General USE		010/0001		200
30110101 332	Contactor			
		AC current	Α	350
Short-circuit protection	n fuse, 600V			
	High fault			
		Short circuit current	kA	100
		Fuse rating	Α	400
		Fuse class		J
	Standard fault			
		Short circuit current	kA	10
		Fuse rating	Α	400 DK5
Ambient conditions		Fuse class		RK5
Ambient conditions Temperature				
remperature	Operating temperature			
	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				

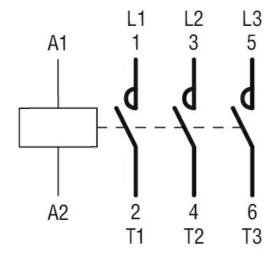
ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 230A, AC/DC COIL,





Wiring diagrams



Certifications and compliance

Certificates

cULus

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching