BF23000E400



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 230A, AC/DC COIL, 250... 500VAC/DC



			at
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			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		А	350
Operational current le			
'	AC-1 (≤40°C)	А	350
	AC-1 (≤55°C)	А	290
	AC-1 (≤70°C)	A	250
	AC-3 (≤440V ≤55°C)	A	230
	AC-4 (400V)	A	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 current AC-3 (T≤55°C)			-
	230V	А	230
	400V	A	230
	415V	A	230
	440V	A	230
	500V	A	184
	690V	А	165
	1000V	А	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	А	350
	48V	A	350
	75V	A	350
	110V	A	145
	220V	A	_
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series	2201		
	-041/	۸	250

≤24V

350

А

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THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 230A, AC/DC COIL, 250...

500VAC/DC

	48V	А	350
	75V	А	350
	110V	А	270
	220V	А	225
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
	≤24V	А	350
	48V	А	350
	75V	А	350
	110V	А	270
	220V	А	270
	330V	А	225
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series			
	≤24V	А	350
	48V	А	350
	75V	А	350
	110V	А	350
	220V	А	350
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series	-		
	≤24V	А	350
	48V	A	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	2201		
	≤24V	А	350
	48V	A	350
	75V	A	250
	110V	A	225
	220V	A	180
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	2201		100
	≤24V	А	350
	48V	A	350
	48V 75V	A	250
	110V	A	250
	220V	A	225
	330V	A	180
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	330 V	Α	100
TEC max current le in DC5-DC5 with Err 3 15ms with 4 poles in series	≤24V	۸	350
	≤24∨ 48V	A A	350
	48V 75V	A	250
	110V	A	250
	220V	A	250 225
	330V	A	225
	330V 460V	A	180
Short-time allowable current for 10s (IEC/EN60947-1)	4001	A A	1840
		А	1040
Protection fuse		^	400
	gG (IEC)	A	400
	aM (IEC)	<u>A</u>	250
Making capacity (RMS value)		A	2300
Breaking capacity at voltage	, . <b>-</b>		40.40
	440V	A	1840
	500V	A	1472
	690V	A	1296
Resistance per pole (average value)		mΩ	0.18



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Power dissipation per	pole (average value)			
		lth	W	21
		AC-3	W	9.3
ightening torque for te	erminals			
		min	Nm	18
		max	Nm	18
		min	lbin	159
		max	lbin	159
Tightening torque for c	coil terminal			
0 0 1		min	Nm	0.8
		max	Nm	1
Power terminal protec	tion according to IEC/EN 60529			IP00
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Tiving		allowable		
Fixing			~	Screw
Weight			g	3000
Operations				10000000
Mechanical life			cycles	1000000
Electrical life			cycles	1000000
Safety related data				
Performance level B1	0d according to EN/ISO 13489-1			
		rated load	cycles	1000000
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 5	0/60Hz, 60Hz			
-		min	V	250
		max	V	500
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
	pick up	min	%Us	80 Us min
			%Us	110 Us max
	drop out	max	/005	110 05 1110
	drop-out		0/11-	
		max	%Us	≤70 Us min
	of 50/60Hz coil powered at 60Hz			
	pick-up		<b></b>	00 I I
		min	%Us	80 Us min
		max	%Us	110 Us max
	drop-out			
		max	%Us	≤70 Us min
AC average coil consu	umption 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	9		-
		in-rush	VA	160230
		holding	VA VA	1.53.0
	of 60Hz coil powered at 60Hz	noiuing	٧A	1.55.0
	of 60Hz coil powered at 60Hz	المربية المرا	1/4	160 000
		in-rush	VA	160230
<b></b>		holding	VA	1.53.0
Dissipation at holding	≤20°C 50Hz		W	1.53.0



electric THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 230A, AC/DC COIL, 250...

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500VAC/DC

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pick-up drop-out Average coil consumption ≤20°C Max cycles frequency Mechanical operation Dperating times	min max min max max in-rush holding	V V %Us %Us %Us W W V vv	250 500 85 Us min 110 Us max ≤70 Us min 160230 1.53.0 1000
drop-out         Average coil consumption ≤20°C         Max cycles frequency         Mechanical operation         Operating times         Average time for Us control in AC	max min max max in-rush	V %Us %Us %Us W W	500 85 Us min 110 Us max ≤70 Us min 160230 1.53.0
pick-up drop-out Average coil consumption ≤20°C Max cycles frequency Mechanical operation Operating times Average time for Us control in AC	min max max in-rush	%Us %Us %Us W W	85 Us min 110 Us max ≤70 Us min 160230 1.53.0
pick-up drop-out Average coil consumption ≤20°C Max cycles frequency Mechanical operation Operating times Average time for Us control in AC	max max in-rush	%Us %Us W W	110 Us max ≤70 Us min 160230 1.53.0
drop-out         Average coil consumption ≤20°C         Max cycles frequency         Mechanical operation         Operating times         Average time for Us control in AC	max max in-rush	%Us %Us W W	110 Us max ≤70 Us min 160230 1.53.0
Average coil consumption ≤20°C Max cycles frequency Mechanical operation Operating times Average time for Us control in AC	max in-rush	%Us W W	≤70 Us min 160230 1.53.0
Average coil consumption ≤20°C Max cycles frequency Mechanical operation Operating times Average time for Us control in AC	in-rush	W W	160230 1.53.0
Max cycles frequency Mechanical operation Operating times Average time for Us control in AC	in-rush	W W	160230 1.53.0
Max cycles frequency Mechanical operation Operating times Average time for Us control in AC		W	1.53.0
Aechanical operation Derating times Average time for Us control in AC		W	1.53.0
Aechanical operation Derating times Average time for Us control in AC	noiding		
Aechanical operation Derating times Average time for Us control in AC		cycles/h	1000
Operating times Average time for Us control in AC			
verage time for Us control in AC			
in AC			
Closing NO			
	min	ms	50
	max	ms	100
Opening NO		ma	30
	min max	ms ms	30 75
JL technical data		110	
/ielded mechanical performance			
for three-phase AC motor			
	200/208V	HP	75
	220/230V	HP	75
	460/480V	HP	150
General USE	575/600V	HP	200
Contactor			
Contactor	AC current	А	350
Short-circuit protection fuse, 600V			
High fault			
-	Short circuit current	kA	100
	Fuse rating	А	400
	Fuse class		J
Standard fault	Chart circuit and t	1- 4	10
	Short circuit current Fuse rating	kA A	10 400
	Fuse class	A	400 RK5
Ambient conditions			
emperature			
Operating temperature			
	min	°C	-40
	max	°C	70
Storage temperature		~ -	
	min	°C	-50
/lax altitude	max	°C	80
Active Analysis Active Action		m	3000
Pollution degree			3

The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding

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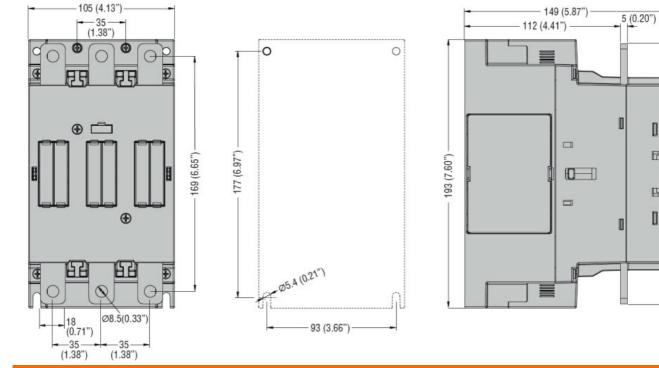
128 (5.04") 187 (7.36")

electric THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 230A, AC/DC COIL, 250... 500VAC/DC

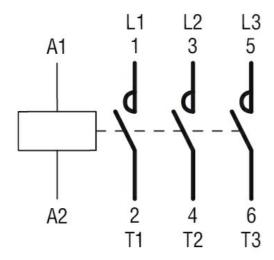
ENERGY AND AUTOMATION

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## Dimensions



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