



			Cafe.
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)	А	250
	AC-3 (≤440V ≤55°C)	А	230
	AC-4 (400V)	А	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	А	230
	415V	А	230
	440V	А	230
	500V	А	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 $L/R \le 1$ ms 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	, ,	
	-0.01		250

≤24V

350

А



BF23000E024 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 230A, AC/DC COIL, 24...60VAC - 20...60VDC

	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 ≤ 1ms 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	7.	
	≤24V	А	350
	48V	A	350
	48V 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	2200	~	100
The max current le in DC3-DC3 with $L/R \ge 15005$ with 5 poles in series	≤24V	۸	350
	≤24V 48V	A A	350
	48V 75V		
		A	250
	110V 220V	A	250
		A	225
150 means that is 1000 100 million $1/0$ < 45 means with 4 meters in contrast	330V	A	180
IEC max current le in DC3-DC5 with L/R \leq 15ms with 4 poles in series	<i>1</i> 0 0 (050
	≤24V	A	350
	48V	A	350
	75V	A	250
	110V	A	250
	220V	A	225
	330V	A	210
	460V	<u>A</u>	180
Short-time allowable current for 10s (IEC/EN60947-1)		A	1840
Protection fuse			
	gG (IEC)	A	400
	aM (IEC)	A	250
Making capacity (RMS value)		A	2300
Breaking capacity at voltage			
	440V	А	1840
	500V	А	1472
	690V	Α	1296
Resistance per pole (average value)		mΩ	0.18



Power dissipation per pole	(auley anerove)			
i owei uissipalion pei pole	average value	Ith	W	21
<u></u>		AC-3	W	9.3
Tightening torque for termi	nais			10
		min	Nm	18
		max	Nm	18
		min	Ibin	159
		max	Ibin	159
Tightening torque for coil to	erminal			
		min	Nm	0.8
		max	Nm	1
Power terminal protection	according to IEC/EN 60529			IP00
Mechanical features				
Operating position				
1 31		normal		Vertical plan
		allowable		±30°
Fixing				Screw
			2	
Weight			g	3000
Operations				4000000
Mechanical life			cycles	1000000
Electrical life			cycles	1000000
Safety related data				
Performance level B10d a	ccording to EN/ISO 13489-1			
		rated load	cycles	1000000
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 50/60	Hz, 60Hz			
		min	V	24
				00
		max	V	60
AC operating voltage		max	V	60
AC operating voltage	50/60Hz coil powered at 50Hz	max	V	60
	50/60Hz coil powered at 50Hz	max	V	60
	50/60Hz coil powered at 50Hz pick-up			
	•	min	%Us	80 Us min
	pick-up			
	•	min max	%Us %Us	80 Us min 110 Us max
of	pick-up drop-out	min	%Us	80 Us min
of	pick-up drop-out 50/60Hz coil powered at 60Hz	min max	%Us %Us	80 Us min 110 Us max
of	pick-up drop-out	min max max	%Us %Us %Us	80 Us min 110 Us max ≤70 Us min
of	pick-up drop-out 50/60Hz coil powered at 60Hz	min max	%Us %Us %Us %Us	80 Us min 110 Us max ≤70 Us min 80 Us min
of	pick-up drop-out 50/60Hz coil powered at 60Hz	min max max	%Us %Us %Us	80 Us min 110 Us max ≤70 Us min
of	pick-up drop-out 50/60Hz coil powered at 60Hz	min max max min	%Us %Us %Us %Us	80 Us min 110 Us max ≤70 Us min 80 Us min
of	pick-up drop-out 50/60Hz coil powered at 60Hz pick-up	min max max min	%Us %Us %Us %Us	80 Us min 110 Us max ≤70 Us min 80 Us min
of	pick-up drop-out 50/60Hz coil powered at 60Hz pick-up drop-out	min max max min max	%Us %Us %Us %Us %Us	80 Us min 110 Us max ≤70 Us min 80 Us min 110 Us max
of of AC average coil consumpt	pick-up drop-out 50/60Hz coil powered at 60Hz pick-up drop-out	min max max min max	%Us %Us %Us %Us %Us	80 Us min 110 Us max ≤70 Us min 80 Us min 110 Us max
of of AC average coil consumpt	pick-up drop-out 50/60Hz coil powered at 60Hz pick-up drop-out	min max max min max max	%Us %Us %Us %Us %Us	80 Us min 110 Us max ≤70 Us min 80 Us min 110 Us max ≤70 Us min
of of AC average coil consumpt	pick-up drop-out 50/60Hz coil powered at 60Hz pick-up drop-out	min max max min max max max	%Us %Us %Us %Us %Us %Us	80 Us min 110 Us max ≤70 Us min 80 Us min 110 Us max ≤70 Us min 160230
of of AC average coil consumpt of	pick-up drop-out 50/60Hz coil powered at 60Hz pick-up drop-out tion at 20°C 50/60Hz coil powered at 50Hz	min max max min max max	%Us %Us %Us %Us %Us	80 Us min 110 Us max ≤70 Us min 80 Us min 110 Us max ≤70 Us min
of of AC average coil consumpt of	pick-up drop-out 50/60Hz coil powered at 60Hz pick-up drop-out	min max max min max max max	%Us %Us %Us %Us %Us %Us VA VA	80 Us min 110 Us max ≤70 Us min 80 Us min 110 Us max ≤70 Us min 160230 1.53.0
of of AC average coil consumpt of	pick-up drop-out 50/60Hz coil powered at 60Hz pick-up drop-out tion at 20°C 50/60Hz coil powered at 50Hz	min max max min max max max in-rush holding in-rush	%Us %Us %Us %Us %Us %Us VA VA	80 Us min 110 Us max ≤70 Us min 10 Us max ≤70 Us min 160230 1.53.0 160230
of AC average coil consumpt of of	pick-up drop-out 50/60Hz coil powered at 60Hz pick-up drop-out tion at 20°C 50/60Hz coil powered at 50Hz 50/60Hz coil powered at 60Hz	min max max min max max max	%Us %Us %Us %Us %Us %Us VA VA	80 Us min 110 Us max ≤70 Us min 80 Us min 110 Us max ≤70 Us min 160230 1.53.0
of AC average coil consumpt of of	pick-up drop-out 50/60Hz coil powered at 60Hz pick-up drop-out tion at 20°C 50/60Hz coil powered at 50Hz	min max max min max max max in-rush holding in-rush holding	%Us %Us %Us %Us %Us %Us VA VA VA VA	80 Us min 110 Us max ≤70 Us min 80 Us min 110 Us max ≤70 Us min 160230 1.53.0 160230 1.53.0
of AC average coil consumpt of of	pick-up drop-out 50/60Hz coil powered at 60Hz pick-up drop-out tion at 20°C 50/60Hz coil powered at 50Hz 50/60Hz coil powered at 60Hz	min max max min max max max in-rush holding in-rush holding in-rush	%Us %Us %Us %Us %Us %Us %Us %Us %Us %Us	80 Us min 110 Us max ≤70 Us min 80 Us min 110 Us max ≤70 Us min 160230 1.53.0 160230 1.53.0
AC average coil consumpt of of of of of	pick-up drop-out 50/60Hz coil powered at 60Hz pick-up drop-out tion at 20°C 50/60Hz coil powered at 50Hz 50/60Hz coil powered at 60Hz 60Hz coil powered at 60Hz	min max max min max max max in-rush holding in-rush holding	%Us %Us %Us %Us %Us %Us %Us %Us %Us %Us	80 Us min 110 Us max ≤70 Us min 80 Us min 110 Us max ≤70 Us min 160230 1.53.0 160230 1.53.0
of AC average coil consumpt of of	pick-up drop-out 50/60Hz coil powered at 60Hz pick-up drop-out tion at 20°C 50/60Hz coil powered at 50Hz 50/60Hz coil powered at 60Hz 60Hz coil powered at 60Hz	min max max min max max max in-rush holding in-rush holding in-rush	%Us %Us %Us %Us %Us %Us %Us %Us %Us %Us	80 Us min 110 Us max ≤70 Us min 80 Us min 110 Us max ≤70 Us min 160230 1.53.0 160230 1.53.0

BF23000E024



24...60VAC - 20...60VDC

Resistance & Protection	DC coil operating					
max V 60 DC operating voltage pick-up min %Us 85 Us min drop-out max %Us \$70 Us min Average coil consumption ≤20°C in-rush W 1530 Max cycles frequency w 1530 100230 Ass cycles frequency cycles frequency w 1530 Ass cycles frequency cycles frequency w 100230 Ass cycles frequency cycles frequency w 1530 Ass cycles frequency cycles frequency w 100230 Ass cycles frequency max ms 100 Ass cycles frequency max ms 100 Ass cycles frequency max ms 100 Closing NO min ms 30 max ms 100 perating times 75 JL technical data max ms 30 max fielded mechanical performance for three-phase AC motor 200/208V HP <t< td=""><td>DC rated control voltag</td><td>je</td><td></td><td></td><td></td><td></td></t<>	DC rated control voltag	je				
DC operating voltage pick-up pick-up min max %Us 85 Us min max drop-out max %Us \$70 Us min Werage coll consumption ≤20°C in-rush holding W 160230 Aax cycles frequency cycles frequency verage time for Us control in AC cycles/h 1000 Operating times cycles/h 1000 min max ms 50 Verage time for Us control in AC Closing NO min max ms 50 Use the chanical operation cycles/h 1000 max ms 100 Operating NO min ms 50 max ms 75 Use the chanical performance for three-phase AC motor 200/208V HP 75 220/230V HP 75 Steneral USE Contactor AC current A 350 55 Stent-circuit protection fuse, 600V High fault Short circuit current KA 10 Fuse class J Standard fault Short circuit current KA 100				min	V	20
pick-up min %Us 85 Us min drop-out max %Us \$70 Us min werage coil consumption ≤20°C in-rush holding W 160230 Max cycles frequency verage coil consumption ≤20°C in-rush holding W 160230 Max cycles frequency verage time for Us control in AC cycles/h 100 000 Closing NO min ms 50 ms ms 100 Opening NO min ms 50 ms ms 100 Ut technical data max ms 100 000 ms ms 75 1/ielded mechanical performance for three-phase AC motor 200/208 V HP 75 20/208 V HP 150 Short-circuit protection fuse, 600 V HP 150 57 460/480 V HP 150 Short-circuit protection fuse, 600 V Hgi fault Short circuit current KA 100 Fuse class J Standard fault Short circuit current KA 100				max	V	60
min %Us 85 Us min drop-out max %Us \$70 Us max Average coil consumption \$20°C in-rush W 160230 Max cycles frequency in-rush W 160230 Max cycles frequency eycles/h 1000 Operating times cycles/h 1000 Verage time for Us control in AC Closing NO min ms 50 Use technical data max ms 100 max ms 30 Use technical data min ms 30 max ms 75 Use technical data fielded machanical performance for three-phase AC motor 200/208V HP 75 200/208V HP 75 460/480V HP 150 Standard fault Short circuit current KA 100 100 Standard fault Short circuit current KA 100 100 Fuse class use class use class use class use class Standard fault <td< td=""><td>C operating voltage</td><td></td><td></td><td></td><td></td><td></td></td<>	C operating voltage					
max %Us 110 Us max drop-out max %Us \$70 Us min Nverage coll consumption s20°C in-rush W 160230 holding W 160230 holding V 100 0 Operating times cycles/h 1000 Verage time for Us control in AC min ms 50 Max attitude max ms 100 Operating times verage time for Us control in AC min ms 30 Use technical data max ms 100 max ms 75 Use technical data max ms 30 max ms 75 Use technical data max ms 30 max ms 75 Use technical data max ms 50 max max 75 Use technical data max max 75 460/480V HP 75 460/480V HP 150 50 50 5		pick-up				
drop-out max %Us ≤70 Us min Average coll consumption 520°C in-rush W 160230 Max cycles frequency in-rush W 1530 Max cycles frequency cycles/h 1000 Operating times cycles/h 1000 Verage time for Us control in AC min ms 50 Opening NO min ms 30 Max ms 30 max ms 75 21 technical data min ms 30 max 75 21 technical data z20/208V HP 75 220/208V HP 75 220/230V HP 150 575/600V HP 200 General USE Contactor A 400 400 Fuse class J Standard fault Short circuit current KA 10 Standard fault Short circuit current KA 10 Fuse class J Standard fault Short circuit current KA </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
max %Us ≤70 Us min Average coil consumption ≤20°C in-rush holding W 160230 holding Max cycles frequency w 153.0 153.0 Max cycles frequency vccles frequency vccles frequency 153.0 Mechanical operation vccles frequency vccles frequency 100 Perating times Vcclesing NO min ms 50 Mechanical aperation cclosing NO min ms 30 Max min ms 30 max ms 75 Lebenholal data min ms 30 max ms 75 /felded mechanical performance for three-phase AC motor 200/208V HP 75 360/00 Short-circuit protection fuse, 600V High fault Short circuit current KA 100 20/208V HP 20/208V </td <td></td> <td></td> <td></td> <td>max</td> <td>%Us</td> <td>110 Us max</td>				max	%Us	110 Us max
Average coil consumption ≤20°C in-rush W 160230 holding W 1503.0 Max cycles [requency dechanical operation cycles/h 1000 Operating times cycles/h 1000 Verage time for Us control in AC min ms 50 max ms 100 50 max ms 75 Ut technical data min ms 30 max ms 75 30 max ms 75 Ut technical data 200/208V HP 75 220/230V 75 HP 75 fielded mechanical performance for three-phase AC motor 200/208V HP 75 460/480V 40 HP 75 General USE Contactor AC current A 350 Short-circuit protection fuse, 600V High fault Short circuit current Fuse class KA 100 Fuse class 400 Fuse class Standard fault Short circuit current for grues class KA 10 Fuse class 70 RK5 Verbient conditions Fuse class J 70 RK5		drop-out			0/11-	<70 =
in-rush W 160230 holding W 160230 W 160		tion <20°C		max	%US	≤70 Us min
holding W 1.53.0 Max cycles frequency cycles/h 1000 Operating times verage time for Us control in AC in AC Closing NO min ms 50 Opening NO min ms 30 Uterchnical data min ms 30 Uterchnical data min ms 30 Uterchnical data min ms 30 220/203V HP 75 220/203V HP 75 220/203V HP 75 20 2	Average coll consump	$100 \leq 20 C$		in ruch	۱۸/	160 220
Max cycles frequency dechanical operation cycles/h 1000 Operating times						
Wetchanical operation cycles/h 1000 Operating times	Max cycles frequency			Tolding	vv	1.55.0
Operating times Warage time for Us control in AC Closing NO min ms 50 max Opening NO min ms 30 max min ms 30 max max ms 100 min ms 30 max max ms 75 JL technical data 75 Vielded mechanical performance for three-phase AC motor 200/208V HP 75 220/230V HP 75 220/208V HP 75 36eneral USE Contactor 200/208V HP 75 Gont-circuit protection fuse, 600V High fault Short-circuit current Fuse rating A 400 Fuse class J Standard fault Short circuit current Fuse class KA 10 Fuse class A 400 Fuse class Advoit Fuse class J Standard fault Short circuit current Fuse class KA 10 Fuse class A 400 Fuse class To Maxieuture Operating temperature min °C -40 max °C 70 Stor					cycles/h	1000
Average time for Us control in AC Closing NO min ms 50 Opening NO min ms 30 Ut technical data max ms 30 JU technical data min ms 30 If ided mechanical performance for three-phase AC motor 200/208V HP 75 220/230V HP 75 460/480V HP 150 Storactor Storage temperature AC current A 350 General USE Contactor A 350 Short-circuit protection fuse, 600V High fault Fuse rating A 400 Fuse class J Standard fault Short circuit current kA 10 Fuse rating A 400 Fuse class RK5 Ambient conditions RK5 RK5 RK5 Correature min °C 40 Grage temperature min °C 50 Max altitude rc 50 60					0,000,11	1000
in AC Closing NO Min ms 50 max ms 100 Min ms 30 max ms 75 Ut technical data Fielded mechanical performance for three-phase AC motor 200/208V HP 75 220/230V HP 75 220/230V HP 75 220/230V HP 75 220/230V HP 75 220/230V HP 75 220/230V HP 150 575/600V HP 150 575/600V HP 200 General USE Contactor AC current A 350 Short-circuit protection fuse, 600V High fault Short circuit current KA 100 Fuse rating A 400 Fuse class J Standard fault Short circuit current KA 100 Fuse class J Standard fault Short circuit current KA 100		ontrol				
Closing NO max mms 50 max mms 50 max mms 50 max mms 100 Opening NO min ms 30 max ms 30 Utechnical data max ms 50 max ms 30 Vielded mechanical performance for three-phase AC motor 200/208V HP 75 220/230V HP 75 220/230V HP 75 220/230V HP 200 General USE Contactor AC current A 350 Short-circuit protection fuse, 600V High fault Fuse class J 350 Short circuit current fuse class KA 100 100 Fuse class J 350 300 Standard fault Short circuit current fuse class KA 100 Fuse class J 300 3000						
$\begin{tabular}{l l l l l l l l l l l l l l l l l l l $			Closing NO			
Opening NO min ms 30 max ms 400 max ms ms <thms< th=""> <thm< th=""> <thms< th=""> <thm< th=""></thm<></thms<></thm<></thms<>				min	ms	50
min ms 30 max ms 75 JL technical data rigided mechanical performance for three-phase AC motor 200/208V HP 75 220/2030V HP 75 220/208V HP 75 220/208V HP 75 220/208V HP 75 220/208V HP 200 General USE Contactor AC current A Stort circuit protection fuse, 600V High fault Short circuit current kA Standard fault Short circuit current kA Standard fault Short circuit current kA Standard fault Short circuit current kA Fuse class J Standard fault Standard fault Corrent A 400 Fuse class RK5 Storage temperature min °C -40 max °C 70				max	ms	100
max ms 75 JL technical data JL technical data Jit technical performance for three-phase AC motor 200/208V HP 75 200/208V HP 200 Secontactor AC current KA AC current KA 100 Fuse rating A 400 Fuse rating A 400 Fuse rating A 400 Fuse rating <td></td> <td></td> <td>Opening NO</td> <td></td> <td></td> <td></td>			Opening NO			
JL technical data /ielded mechanical performance for three-phase AC motor 200/208V HP 75 220/203V HP 75 460/480V HP 150 575/600V HP 200 General USE Contactor AC current A 350 Short-circuit protection fuse, 600V High fault Short circuit current KA 100 Fuse rating A 400 Fuse class J Standard fault Short circuit current KA 10 Fuse class C RK5 Ambient conditions Femperature Operating temperature Min °C 40 max °C 70 Storage temperature Min °C 50 max °C 80 Max attitude Resistance & Protection				min	ms	
fielded mechanical performance for three-phase AC motor 200/208V HP 75 220/230V HP 75 260/480V HP 150 220/230V HP 75 260/480V HP 150 375/600V HP 200 200 200 200 200 General USE Contactor AC current A 350 350 Short-circuit protection fuse, 600V High fault Short circuit current KA 100 Fuse rating A 400 Fuse class J 350 Standard fault Short circuit current KA 10 400 400 Fuse class J Standard fault Short circuit current KA 10 Fuse class RK5 Motor Fuse class RK5 Ambient conditions Max °C 70 70 Storage temperature min °C 50 70 Storage temperature min °C 50 80				max	ms	75
for three-phase AC motor 200/208V HP 75 220/230V HP 75 220/230V HP 150 575/600V HP 200 General USE Contactor AC current A 350 Short-circuit protection fuse, 600V High fault AC current KA 100 Fuse rating A 400 Fuse class J Standard fault Short circuit current KA 10 Fuse rating A 400 Fuse class J Standard fault Short circuit current KA 10 Fuse class J Standard fault Short circuit current KA Mbient conditions Fuse class RK5 Standard fault Coperating temperature min °C -40 max °C 70 Storage temperature min °C -50 Max altitude m 3000 max °C 80						
200/208V HP 75 220/230V HP 75 220/230V HP 150 575/600V HP 200 General USE Contactor AC current A 350 Short-circuit protection fuse, 600V High fault Short circuit current KA 100 Fuse class Standard fault Short circuit current KA 10 Fuse class Attom Fuse rating A 400 Fuse class J Standard fault Standard fault KA 10 Ambient conditions Temperature Operating temperature RK5 RK5 Max Corage temperature min °C -40 max °C 70 Storage temperature Max altitude Max altitude m 3000	Yielded mechanical pe					
220/230V HP 75 460/480V HP 150 575/600V HP 200 General USE Contactor AC current A 350 Short-circuit protection fuse, 600V High fault A 400 Fuse rating A 400 Fuse class J Standard fault Short circuit current KA 10 Fuse class J Standard fault KK5 A 400 Fuse class J Standard fault Coperating temperature Min °C -40 max °C 70 Storage temperature min °C -50 Max altitude m 3000 Resistance & Protection min 3000		for three-phase AC mo	otor	000/0001/		75
$\begin{array}{c c c c c c c } & 460/480V & HP & 150 \\ \hline 575/600V & HP & 200 \\ \hline \hline$						
Seneral USE Contactor AC current A 350 Short-circuit protection fuse, 600V High fault A 100 Fuse atting A 400 Fuse rating A 400 Fuse class J Standard fault Short circuit current KA 10 Fuse class J J Ambient conditions KK5 KK5 Coperating temperature min °C -40 Max °C 80 Wax altitude m 300						
General USE Contactor AC current A 350 Short-circuit protection fuse, 600V High fault Short circuit current kA 100 Fuse rating A 400 Fuse rating A 400 Standard fault Short circuit current kA 10 Fuse class J Ambient conditions Short circuit current kA 10 Fuse class RK5 Ambient conditions Femperature Operating temperature min °C -40 Max °C 70 Storage temperature min °C -50 Max altitude min °C -50 max °C 80						
Contactor AC current A 350 Short-circuit protection fuse, 600V High fault Short circuit current KA 100 Fuse rating A 400 Fuse class J Standard fault Short circuit current KA 10 Fuse rating A 400 Fuse class J J Standard fault Short circuit current KA 10 Fuse rating A 400 Fuse class RK5 Ambient conditions RK5 RK5 RK5 Coperating temperature min °C -40 max °C 70 Storage temperature min °C -50 Max altitude m 3000 Resistance & Protection m 3000	General USF			010/0001	1 11	200
AC current A 350 Short-circuit protection fuse, 600V High fault Short circuit current kA 100 Fuse rating A 400 Fuse class J Standard fault Short circuit current kA 10 Fuse rating A 400 Fuse class RK5 Ambient conditions Femperature Operating temperature Operating temperature Max altitude Max altitude Max altitude Max altitude Max altitude Max altitude Max altitude Max altitude Short circuit current kA 10 Fuse class Femperature Max altitude Max altitude Max altitude Max altitude Short circuit current kA 10 Fuse class Short circuit current kA 10 Fuse class Max altitude Max		Contactor				
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High fault Short circuit current kA 100 Fuse rating A 400 Fuse class J Standard fault Short circuit current kA 10 Fuse rating A 400 400 Fuse class J Standard fault Short circuit current kA 10 Ambient conditions Fuse rating A 400 Fuse class RK5 Ambient conditions Operating temperature min °C -40 Max Operating temperature min °C -50 Max altitude m 3000 3000 Resistance & Protection min 3000 -50	Short-circuit protection	fuse, 600V				
Short circuit current kA 100 Fuse rating A 400 Fuse class J Standard fault Short circuit current kA 10 Fuse rating A 400 Fuse rating A 400 Fuse rating A 400 Fuse rating A 400 Fuse class RK5						
Fuse class J Standard fault Short circuit current kA 10 Fuse rating A 400 Fuse class RK5 Ambient conditions RK5 Temperature Operating temperature Operating temperature min °C -40 max °C Storage temperature min Max altitude m 3000 Resistance & Protection Wataltitude m		C C		Short circuit current	kA	100
Standard fault Short circuit current kA 10 Fuse rating A 400 Fuse class RK5 Ambient conditions RK5 Temperature 0 Operating temperature min °C Max °C 70 Storage temperature min °C Max altitude m 3000				Fuse rating	А	400
Short circuit current kA 10 Fuse rating A 400 Fuse class RK5 Ambient conditions RK5 Temperature 0perating temperature -40 max °C -40 Storage temperature min °C -50 Max altitude m 3000 3000				Fuse class		J
Fuse rating Fuse class A 400 RK5 Ambient conditions RK5 Temperature min °C -40 max Operating temperature min °C -40 max Storage temperature min °C -50 max Max altitude m 3000 Resistance & Protection Volume Volume		Standard fault				
Fuse class RK5 Ambient conditions Femperature Femperature Operating temperature min °C -40 max °C 70 Storage temperature min °C -50 max °C 80 max °C 80 Max altitude m 3000 Resistance & Protection m 3000						
Ambient conditions Femperature Operating temperature min °C Max °C Storage temperature min °C Max altitude Resistance & Protection					A	
Temperature Min °C -40 min °C 70 Storage temperature min °C -50 max °C 80 Max altitude m 3000 Resistance & Protection	Ambiant conditions			Fuse class		KK5
Operating temperature min °C -40 max °C 70 Storage temperature min °C -50 max °C 80 Max altitude m 3000 Resistance & Protection						
min °C -40 max °C 70 Storage temperature min °C -50 max °C 80 Max altitude m 3000 Resistance & Protection	remperature	Operating townships				
max °C 70 Storage temperature min °C -50 max °C 80 Max altitude m 3000 Resistance & Protection		Operating temperature	;	min	ംറ	-40
Storage temperature min °C -50 max °C 80 Max altitude m 3000 Resistance & Protection Max 1000						
min °C -50 max °C 80 Max altitude m 3000 Resistance & Protection		Storage temperature		IIIdX	U	10
max°C80Max altitudem3000Resistance & Protectionm		Sidiage temperature		min	°C	-50
Max altitude m 3000 Resistance & Protection						
Resistance & Protection	Max altitude			max		
		on				
	Pollution degree					3

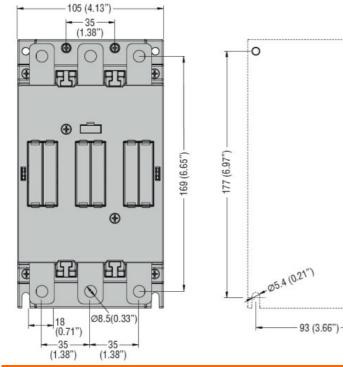
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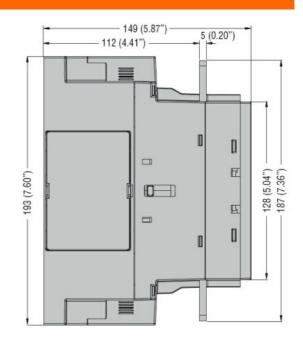


BF23000E024 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 230A, AC/DC COIL, 24...60VAC - 20...60VDC

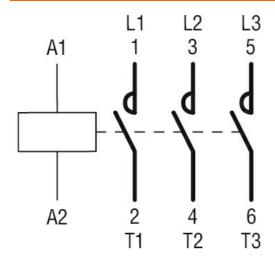
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Dimensions





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

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