



Product designation			Power contactor
Product type designation			BF400
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		Α	600
Operational current le			
	AC-1 (≤40°C)	А	600
	AC-1 (≤55°C)	А	500
	AC-1 (≤70°C)	А	435
	AC-3 (≤440V ≤55°C)	А	400
	AC-4 (400V)	Α	190
Rated operational power AC-3 (T≤55°C)			
	230V	kW	110
	400V	kW	200
	415V	kW	200
	440V	kW	200
	500V	kW	250
	690V	kW	315
	1000V	kW	200
Rated operational current AC-3 (T≤55°C)			
	230V	А	400
	400V	А	400
	415V	А	400
	440V	А	400
	500V	А	350
	690V	А	350
	1000V	Α	155
Rated operational power AC-1 (T≤40°C)			
	230V	kW	227
	400V	kW	395
	500V	kW	434
	690V	kW	681
IEC max current le in DC1 with $L/R \le 1$ ms with 1 poles in series			
	75V	А	400
	110V	Α	250
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	75V	А	400
	110V	А	400
	220V	Α	350

IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series



BF40000E024 THREE-POLE CONTACTOR, IEC OPERATING CURRENT 2

IE (AC3) = 400A, AC/	DC COIL,
2460VAC - 20	060VDC

	75V	А	400
	110V	А	400
	220V	А	400
	330V	А	350
EC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	75V	А	400
	110V	A	400
	220V	A	400
EC max current le in DC3-DC5 with L/R \leq 15ms with 1 poles in series	2201		100
	75V	А	350
	110V	A	200
EC may autrent to in DC2 DC5 with $1/P < 15$ may with 2 poles in series	110 v	~	200
EC max current le in DC3-DC5 with $L/R \le 15$ ms with 2 poles in series	75\/	^	250
	75V	A	350
	110V	A	350
	220V	A	280
EC max current le in DC3-DC5 with $L/R \le 15$ ms with 3 poles in series			
	75V	A	350
	110V	Α	350
	220V	Α	350
	330V	А	280
EC max current le in DC3-DC5 with $L/R \le 15$ ms with 4 poles in series			
	75V	А	350
	110V	А	350
	220V	A	350
	330V	A	350
	460V	A	280
Short-time allowable current for 10s (IEC/EN60947-1)	400 V	A	3200
Protection fuse		~	3200
Totection fuse		۸	000
	gG (IEC)	A	800
	aM (IEC)	A	500
Making capacity (RMS value)		A	4000
Breaking capacity at voltage			
	440V	A	3200
	500V	Α	2752
	690V	Α	2504
Resistance per pole (average value)		mΩ	0.12
Power dissipation per pole (average value)			
	lth	W	43.2
	AC-3	W	19
-ightening torque for terminals			
	min	Nm	35
	max	Nm	35
	min	Ibin	310
	max	Ibin	310
ightening torque for coil terminal	Παλ		010
ignitening lorque for contentilia		N I.e	0.0
	min	Nm	0.8
	max	Nm	1
			IP00
Nechanical features			IP00
Nechanical features			IP00
Nechanical features	normal		Vertical plan
Power terminal protection according to IEC/EN 60529 Nechanical features Operating position	normal allowable		

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BF40000E024 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 400A, AC/DC COIL, 24...60VAC - 20...60VDC

Mechanical life			cycles	5000000
Electrical life			cycles	600000
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	24
		max	V	60
C operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	80 Us min
		max	%Us	110 Us max
	drop-out			
		max	%Us	≤70 Us min
	of 50/60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	80 Us min
		max	%Us	110 Us max
	drop-out			
		max	%Us	≤70 Us min
AC average coil consi	umption at 20°C			
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	160320
		holding	VA	3.58.0
	of 50/60Hz coil powered at 60Hz			
		in-rush	VA	160320
		holding	VA	3.58.0
	of 60Hz coil powered at 60Hz			
		in-rush	VA	160320
		holding	VA	3.58.0
Dissipation at holding	≤20°C 50Hz		W	3.58.0
OC coil operating				
DC rated control volta	ge			
		min	V	20
		max	V	60
OC operating voltage				
	pick-up			
		min	%Us	85 Us min
		max	%Us	110 Us max
	drop-out			
		max	%Us	≤70 Us min
Average coil consump	otion ≤20°C			
		in-rush	W	160230
		holding	W	3.58.0
Max cycles frequency				
Mechanical operation			cycles/h	1000
Operating times				
	ontrol			

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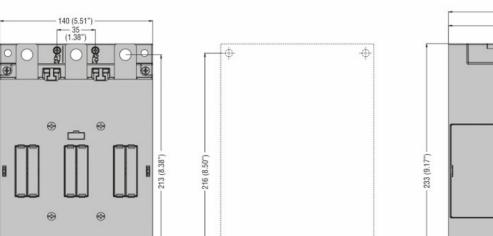


THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 400A, AC/DC COIL, 24...60VAC - 20...60VDC

	Closing NO			
		min	ms	80
		max	ms	120
	Opening NO	IIIdA	1113	120
	Opening NO	min	ms	30
		max	ms	75
UL technical data		max	ine	10
Yielded mechanical performance				
for three-phase AC	motor			
	motor	200/208V	HP	125
		220/230V	HP	150
		460/480V	HP	350
		575/600V	HP	400
General USE		0.0,0001		
Contactor				
Contactor		AC current	А	600
Short-circuit protection fuse, 600V				
High fault				
		Short circuit current	kA	100
		Fuse rating	A	600
		Fuse class		J
Standard fault				
		Short circuit current	kA	18
		Fuse rating	А	600
		Fuse class		RK5
Ambient conditions				
Temperature				
Operating temperat	ure			
		min	°C	-40
		max	°C	70
Storage temperatur	е			
. .		min	°C	-50
		max	°C	80
Max altitude			m	3000
Resistance & Protection				
Pollution degree				3
Dimensions				

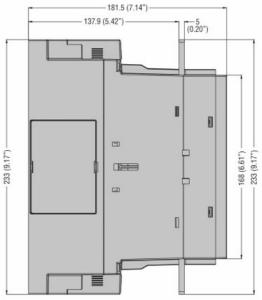


BF40000E024 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 400A, AC/DC COIL, 24...60VAC - 20...60VDC



064(0.25")

125 (4.92")-



Wiring diagrams

0

(0.78")

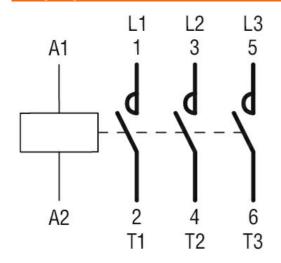
62

45 (1.77

122

45 (1.77")

310



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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