

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 80A, AC COIL 60HZ,



Product designation Power contactor Product type designation **BF80** Contact characteristics Nr. 3 Number of poles Rated insulation voltage Ui IEC/EN ٧ 1000 k۷ Rated impulse withstand voltage Uimp 8 Operational frequency min Н 25 Hz 400 max IEC Conventional free air thermal current Ith 115 Α Operational current le AC-1 (≤40°C) Α 115 AC-1 (≤55°C) Α 95 AC-1 (≤70°C) Α 80 AC-3 (≤440V ≤55°C) Α 80 AC-4 (400V) 38 Rated operational power AC-3 (T≤55°C) kW 22 230V 400V kW 45 415V kW 45 440V kW 45 500V kW 55 690V kW 55 1000V kW 37 Rated operational current AC-3 (T≤55°C) 230V Α 80 400V Α 80 415V Α 80 440V Α 80 500V 78 690V 57 Α 1000V Α 28 Rated operational power AC-1 (T≤40°C) 230V kW 43 400V kW 76 500V kW 95 690V kW 120 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series ≤24V 70 Α 48V Α 60 75V Α 60 110V Α 8 220V Α IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V Α 100





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	48V	Α	100
	75V	Α	100
	110V	Α	80
	220V	Α	9
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	2201		
120 max current le in 201 with 2/1 = mis with 3 poles in series	≤24V	۸	100
		A	
	48V	Α	100
	75V	Α	100
	110V	Α	85
	220V	Α	95
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	Α	100
	48V	Α	100
	75V	Α	100
	110V	A	100
	220V	Α	115
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	Α	40
	48V	Α	30
	75V	Α	30
	110V	Α	3
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	220 V		
TEC max current le in DC3-DC3 with L/N = 13ms with 2 poles in series	40 AV /		0.0
	≤24V	Α	60
	48V	Α	50
	75V	Α	50
	110V	Α	40
	220V	Α	5
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
•	≤24V	Α	80
	48V	A	70
	75V		
		A	70
	110V	Α	60
	220V	Α	64
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	Α	90
	48V	Α	90
	75V	Α	90
	110V	Α	75
	220V	Α	80
Short-time allowable current for 10s (IEC/EN60947-1)	220 V	A	640
·			040
Protection fuse	~O (IFO)	Λ	405
	gG (IEC)	Α	125
	aM (IEC)	A	80
Making capacity (RMS value)		Α	800
Breaking capacity at voltage			
	440V	Α	640
	500V	Α	625
	690V	A	456
Resistance per pole (average value)	030 v	mΩ	0.6
Resistance per pole (average value)		11122	0.0
Power dissipation per pole (average value)	• • •		7.0
	Ith	W	7.9
	AC-3	W	3.8
Tightening torque for terminals			





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		min	Nm	4
		max	Nm	5
		min	lbin	2.95
		max	lbin	3.69
Tightening torque for	coil terminal			
		min	Nm	0.8
		max	Nm	1
		min	lbin	0.8
		max	Ibin	0.74
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			_
		max		2
	Flexible w/o lug conductor section		•	
		min	mm²	1.5
		max	mm²	35
	Flexible c/w lug conductor section		_	4.5
		min	mm²	1.5
		max	mm²	35
	ction according to IEC/EN 60529			IP20 front
Mechanical features				
Operating position		•		
		normal		Vertical plan
-		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight				1020
Conductor section			g	1020
Conductor Section				
	AMC/kamil conductor acation			
	AWG/kcmil conductor section	may		2
Operations	AWG/kcmil conductor section	max		2
Operations Machanical life	AWG/kcmil conductor section	max	cyclos	
Mechanical life	AWG/kcmil conductor section	max	cycles	15000000
Mechanical life Electrical life	AWG/kcmil conductor section	max	cycles cycles	
Mechanical life Electrical life Safety related data		max		15000000
Mechanical life Electrical life Safety related data	AWG/kcmil conductor section Od according to EN/ISO 13489-1		cycles	15000000 1300000
Mechanical life Electrical life Safety related data		rated load	cycles	15000000 1300000 1300000
Mechanical life Electrical life Safety related data Performance level B1	0d according to EN/ISO 13489-1		cycles	15000000 1300000 1300000 15000000
Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi		rated load	cycles	15000000 1300000 1300000 15000000 yes
Mechanical life Electrical life Safety related data Performance level B1 Mirror contats according	0d according to EN/ISO 13489-1	rated load	cycles	15000000 1300000 1300000 15000000
Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating	0d according to EN/ISO 13489-1 ing to IEC/EN 609474-4-1	rated load	cycles cycles cycles	15000000 1300000 1300000 15000000 yes yes
Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 6	0d according to EN/ISO 13489-1 ing to IEC/EN 609474-4-1	rated load	cycles	15000000 1300000 1300000 15000000 yes
Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating	Od according to EN/ISO 13489-1 ing to IEC/EN 609474-4-1	rated load	cycles cycles cycles	15000000 1300000 1300000 15000000 yes yes
Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 6	Od according to EN/ISO 13489-1 ing to IEC/EN 609474-4-1 60Hz of 60Hz coil powered at 60Hz	rated load	cycles cycles cycles	15000000 1300000 1300000 15000000 yes yes
Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 6	Od according to EN/ISO 13489-1 ing to IEC/EN 609474-4-1	rated load mechanical load	cycles cycles cycles	15000000 1300000 1300000 15000000 yes yes 460
Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 6	Od according to EN/ISO 13489-1 ing to IEC/EN 609474-4-1 60Hz of 60Hz coil powered at 60Hz	rated load mechanical load min	cycles cycles cycles	15000000 1300000 1300000 15000000 yes yes 460
Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 6	Od according to EN/ISO 13489-1 ing to IEC/EN 609474-4-1 60Hz of 60Hz coil powered at 60Hz pick-up	rated load mechanical load	cycles cycles cycles	15000000 1300000 1300000 15000000 yes yes 460
Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 6	Od according to EN/ISO 13489-1 ing to IEC/EN 609474-4-1 60Hz of 60Hz coil powered at 60Hz	rated load mechanical load min max	cycles cycles cycles	15000000 1300000 1300000 15000000 yes yes 460
Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 6	Od according to EN/ISO 13489-1 ing to IEC/EN 609474-4-1 60Hz of 60Hz coil powered at 60Hz pick-up	rated load mechanical load min max min	cycles cycles cycles V %Us %Us %Us	15000000 1300000 1300000 15000000 yes yes 460
Mechanical life Electrical life Safety related data Performance level B1 Mirror contats according EMC compatibility AC coil operating Rated AC voltage at 6 AC operating voltage	Od according to EN/ISO 13489-1 ing to IEC/EN 609474-4-1 60Hz of 60Hz coil powered at 60Hz pick-up drop-out	rated load mechanical load min max	cycles cycles cycles	15000000 1300000 1300000 15000000 yes yes 460
Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 6	Od according to EN/ISO 13489-1 ing to IEC/EN 609474-4-1 60Hz of 60Hz coil powered at 60Hz pick-up drop-out	rated load mechanical load min max min	cycles cycles cycles V %Us %Us %Us	15000000 1300000 1300000 15000000 yes yes 460
Mechanical life Electrical life Safety related data Performance level B1 Mirror contats according EMC compatibility AC coil operating Rated AC voltage at 6 AC operating voltage	Od according to EN/ISO 13489-1 ing to IEC/EN 609474-4-1 60Hz of 60Hz coil powered at 60Hz pick-up drop-out	rated load mechanical load min max min max	cycles cycles cycles V %Us %Us %Us %Us %Us	15000000 1300000 1300000 15000000 yes yes 460 80 110 20 55
Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 6 AC operating voltage	Od according to EN/ISO 13489-1 ing to IEC/EN 609474-4-1 60Hz of 60Hz coil powered at 60Hz pick-up drop-out	rated load mechanical load min max min	cycles cycles cycles V %Us %Us %Us	15000000 1300000 1300000 15000000 yes yes 460



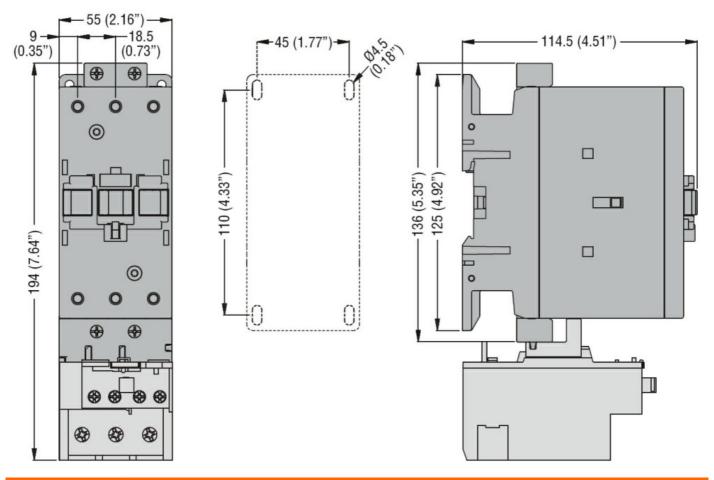


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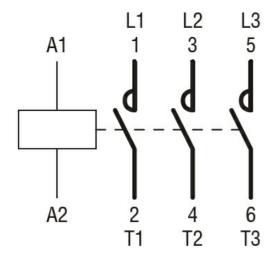
Closing NO Opening NO Closing NO Opening NO	min max min max min max at 480V	ms ms ms ms ms	12 28 8 22 40 85 20 55
Opening NO Closing NO	min max min max min max	ms ms ms ms	12 28 8 22 40 85 20
Opening NO Closing NO	max min max min max min max min max	ms ms ms	28 8 22 40 85 20
Opening NO Closing NO	max min max min max min max min max	ms ms ms	28 8 22 40 85 20
Opening NO Closing NO	max min max min max min max min max	ms ms ms	28 8 22 40 85 20
Opening NO Closing NO	max min max min max min max min max	ms ms ms	28 8 22 40 85 20
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Closing NO	max min max min max	ms ms ms	22 40 85 20
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-	max min max	ms ms	85 20
-	max min max	ms ms	85 20
)pening NO	max min max	ms ms	85 20
Opening NO	min max	ms	20
Opening NO	max		
	max		
		ms	55
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	at 600V	Α	77
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	AC current	Α	115
	Short circuit current	ĿΛ	100
			200
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	Short circuit current	៤Λ	10
			200
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			-50 70
	IIIdX		10
	min	°C	-60
			-60 80
	max		
		m	3000
			2
			3
		at 600V 200/208V 220/230V 460/480V 575/600V AC current Fuse rating Fuse class Short circuit current Fuse rating Fuse class Short circuit current Fuse rating Fuse class min max min max	200/208V HP 220/230V HP 460/480V HP 575/600V HP AC current A Short circuit current kA Fuse rating A Fuse class Short circuit current kA Fuse rating A Fuse rating A Fuse class min °C max °C



ENERGY AND AUTOMATION



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

CCC



BF8000A46060

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cULus

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching