

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 80A, AC COIL 60HZ, 220VAC



Product designation			Power contactor
Product type designation			BF80
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	115
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)	Α	38
Rated operational power AC-3 (T≤55°C)	,		
, ,	230V	kW	22
	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	Α	78
	690V	Α	57
	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	Α	70
	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			
	≤24V	Α	100
	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	Α	100
	220V	Α	115
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series		,,	
120 max current to in 200-200 with 2/10 2 forms with 1 poles in series	≤24V	Α	40
	48V	A	30
	75V	A	30
	110V	A	3
	220V	A	- -
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/R \(\) 13ms with 2 poles in series	<0.41.7	^	00
	≤24V	A	60
	48V	A	50
	75V	A	50
	110V	A	40
150 DOS DOS 211 1 D 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	220V	Α	5
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series		_	
	≤24V	Α	80
	48V	Α	70
	75V	Α	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)		Α	640
Protection fuse			
	gG (IEC)	Α	125
	aM (IEC)	Α	80
Making capacity (RMS value)		Α	800
Breaking capacity at voltage			
	440V	Α	640
	500V	Α	625
	690V	Α	456
Resistance per pole (average value)		mΩ	0.6
Power dissipation per pole (average value)			
	Ith	W	7.9
	AC-3	W	3.8
Tightening torque for terminals	, 10 0	• • •	
righterming torque for terminale			





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		min	Nm	4
		max	Nm	5
		min	Ibin	2.95
		max	Ibin	3.69
Tightening torque for	coil terminal			
		min	Nm	0.8
		max	Nm	1
		min	Ibin	0.8
		max	Ibin	0.74
Max number of wires	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	Шах		_
	s.asic s, it lay contactor couldn	min	mm²	1.5
		max	mm²	35
Power terminal protect	ction according to IEC/EN 60529	IIIdX	171111	IP20 front
Mechanical features	ction according to IEC/EN 60329			IFZU IIUIIL
Operating position				Vertical plan
		normal		Vertical plan ±30°
		allowable		
Fixing				Screw / DIN rail 35mm
Weight				1020
vveioni				
			g	1020
Conductor section	AMO/Leasilean Lateranation		9	1020
	AWG/kcmil conductor section		9	
Conductor section	AWG/kcmil conductor section	max	g	2
Conductor section Operations	AWG/kcmil conductor section	max	-	2
Conductor section Operations Mechanical life	AWG/kcmil conductor section	max	cycles	2 15000000
Operations Mechanical life Electrical life	AWG/kcmil conductor section	max	-	2
Operations Mechanical life Electrical life Safety related data		max	cycles	2 15000000
Operations Mechanical life Electrical life Safety related data	AWG/kcmil conductor section 10d according to EN/ISO 13489-1		cycles cycles	2 15000000 1300000
Operations Mechanical life Electrical life Safety related data		rated load	cycles cycles	2 15000000 1300000
Operations Mechanical life Electrical life Safety related data Performance level B1	10d according to EN/ISO 13489-1		cycles cycles	2 15000000 1300000
Conductor section Operations Mechanical life Electrical life Safety related data Performance level B1		rated load	cycles cycles	2 15000000 1300000
Conductor section Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accord EMC compatibility	10d according to EN/ISO 13489-1	rated load	cycles cycles	2 15000000 1300000 1300000 15000000
Conductor section Operations Mechanical life Electrical life Safety related data Performance level B1	10d according to EN/ISO 13489-1	rated load	cycles cycles	2 15000000 1300000 1300000 15000000 yes
Conductor section Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accord EMC compatibility	10d according to EN/ISO 13489-1 ling to IEC/EN 609474-4-1	rated load	cycles cycles	2 15000000 1300000 1300000 15000000 yes
Conductor section Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accord EMC compatibility AC coil operating	10d according to EN/ISO 13489-1 ling to IEC/EN 609474-4-1	rated load	cycles cycles cycles cycles	2 15000000 1300000 1300000 15000000 yes yes
Conductor section Operations Mechanical life Electrical life Safety related data Performance level Br Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 6	10d according to EN/ISO 13489-1 ling to IEC/EN 609474-4-1	rated load	cycles cycles cycles cycles	2 15000000 1300000 1300000 15000000 yes yes
Conductor section Operations Mechanical life Electrical life Safety related data Performance level Br Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 6	10d according to EN/ISO 13489-1 ling to IEC/EN 609474-4-1	rated load	cycles cycles cycles cycles	2 15000000 1300000 1300000 15000000 yes yes
Operations Mechanical life Electrical life Safety related data Performance level Bandar accord EMC compatibility AC coil operating Rated AC voltage at 6	10d according to EN/ISO 13489-1 ling to IEC/EN 609474-4-1 60Hz of 60Hz coil powered at 60Hz	rated load	cycles cycles cycles cycles	2 15000000 1300000 1300000 15000000 yes yes
Conductor section Operations Mechanical life Electrical life Safety related data Performance level Br Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 6	10d according to EN/ISO 13489-1 ling to IEC/EN 609474-4-1 60Hz of 60Hz coil powered at 60Hz	rated load mechanical load	cycles cycles cycles cycles	2 15000000 1300000 1300000 15000000 yes yes
Operations Mechanical life Electrical life Safety related data Performance level Bandar accord EMC compatibility AC coil operating Rated AC voltage at 6	10d according to EN/ISO 13489-1 ling to IEC/EN 609474-4-1 60Hz of 60Hz coil powered at 60Hz pick-up	rated load mechanical load min	cycles cycles cycles cycles	2 15000000 1300000 1300000 15000000 yes yes 220
Operations Mechanical life Electrical life Safety related data Performance level Bandar accord EMC compatibility AC coil operating Rated AC voltage at 6	10d according to EN/ISO 13489-1 ling to IEC/EN 609474-4-1 60Hz of 60Hz coil powered at 60Hz	rated load mechanical load min	cycles cycles cycles v	2 15000000 1300000 1300000 15000000 yes yes 220
Operations Mechanical life Electrical life Safety related data Performance level Bandar accord EMC compatibility AC coil operating Rated AC voltage at 6	10d according to EN/ISO 13489-1 ling 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 V %Us %Us %Us	2 15000000 1300000 1300000 15000000 yes yes 220
Conductor section Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 6 AC operating voltage	of 60Hz coil powered at 60Hz pick-up	rated load mechanical load min max	cycles cycles cycles v	2 15000000 1300000 1300000 15000000 yes yes 220
Conductor section Operations Mechanical life Electrical life Safety related data Performance level Br Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 6	of 60Hz coil powered at 60Hz pick-up drop-out	rated load mechanical load min max min	cycles cycles cycles v V %Us %Us %Us	2 15000000 1300000 1300000 15000000 yes yes 220
Conductor section Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 6 AC operating voltage	of 60Hz coil powered at 60Hz pick-up	rated load mechanical load min max min max	cycles cycles cycles v Wus %Us %Us %Us %Us	2 15000000 1300000 1300000 15000000 yes yes 220 80 110 20 55
Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 6 AC operating voltage	of 60Hz coil powered at 60Hz pick-up drop-out	rated load mechanical load min max min	cycles cycles cycles v V %Us %Us %Us	2 15000000 1300000 1300000 15000000 yes yes 220

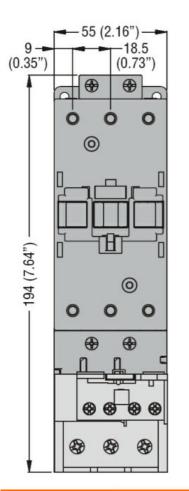
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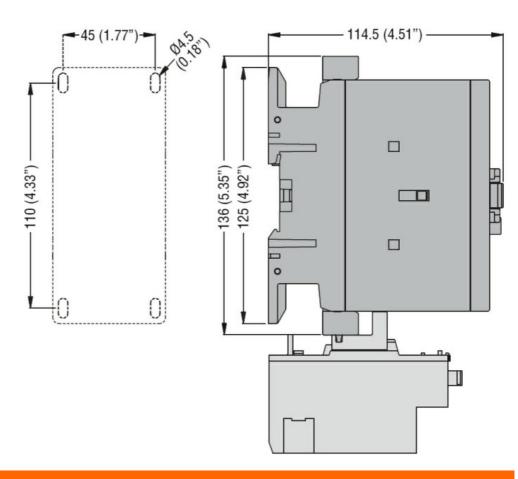
Dissipation at holding ≤20°C 50Hz		W	5
Max cycles frequency			
Mechanical operation		cycles/h	3600
Operating times			
Average time for Us control			
in AC			
Closing NO			4.0
	min	ms	12
Onening NO	max	ms	28
Opening NO	min	mo	8
	min max	ms ms	22
in DC	IIIax	1115	22
Closing NO			
Closing NO	min	ms	40
	max	ms	85
Opening NO	IIIdA	1113	
Оренінд 140	min	ms	20
	max	ms	55
UL technical data	max	7110	
Full-load current (FLA) for three-phase AC motor			
	at 480V	Α	77
	at 600V	A	77
Yielded mechanical performance			
for three-phase AC motor			
is an a product the most.	200/208V	HP	25
	220/230V	HP	30
	460/480V	HP	60
	575/600V	HP	75
General USE			
Contactor			
	AC current	Α	115
Short-circuit protection fuse, 600V			
High fault			
-	Short circuit current	kA	100
	Fuse rating	Α	200
_	Fuse class		J
Standard fault			
	Short circuit current	kA	10
	Fuse rating	Α	200
	Fuse class		RK5
Ambient conditions			
Temperature			
Operating temperature			
	min	°C	-50
	max	°C	70
Storage temperature			
	min	°C	-60
	max	°C	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3
Dimensions			



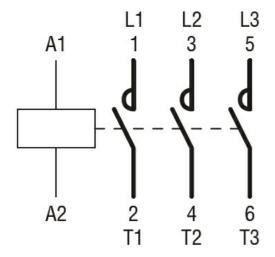
ENERGY AND AUTOMATION

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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



BF8000A22060

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cULus

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching