



			10 10 10
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	A	78 57
	690V	A	57
D. 1. J	1000V	Α	28
Rated operational power AC-1 (T≤40°C)	0001/	1.347	40
	230V	kW	43
	400V	kW	76 05
	500V	kW	95
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series	690V	kW	120
TEC max current le in DCT with L/R > This with T poles in series	~2A\/	۸	70
	≤24V 48V	A A	70 60
	48 V 75 V	A	60 60
	110V	A	8
	220V		
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	ZZUV	A	_
ILO max current le in DOT with L/R > This with 2 poles in series	≤24V	٨	100
	≥24V	Α	100



	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 carrent to in 200 200 mar 2/10 - 10me mar 1 period in contes	≤24V	Α	40
	48V	A	30
	75V	Α	30
	110V	A	3
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	220 V		
TEO THAN GUITOR TO HIS DOO BOO WILL EAR = TOTAL WILL 2 POICS III SCHOO	≤24V	Α	60
	48V	A	50
	75V	A	50
	110V	A	40
	220V	A	5
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	220 V		
TEC max current le in DC3-DC3 with E/N = 13ms with 3 poles in series	≤24V	۸	90
	≥24 V 48 V	A	80
	46 V 75 V	A	70
		A	70
	110V 220V	A	60
IFC may current to in DC2 DC5 with L/D < 15 mg with 4 notes in series	2200	A	64
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	<0.4V	۸	0.0
	≤24V	A	90
	48V	Α	90
	75V	A	90
	110V	A	75
Object ("consultant language for AO (15 O (5 NO O AZ A))	220V	A	80
Short-time allowable current for 10s (IEC/EN60947-1)		Α	640
Protection fuse	0 ((50)		405
	gG (IEC)	A	125
	aM (IEC)	Α .	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)		mΩ	0.6
Power dissipation per pole (average value)			
	lth	W	7.9
	AC-3	W	3.8
Tightening torque for terminals			



min max	Nm Nm Ibin Ibin Nm Nm Ibin Ibin Ibin Rr.	4 5 2.95 3.69 0.8 1 0.8 0.74 2
min max min max min max min max	Ibin Ibin Nm Nm Ibin Ibin Nr.	2.95 3.69 0.8 1 0.8 0.74
max min max min max max	Nm Nm Ibin Ibin Nr.	3.69 0.8 1 0.8 0.74 2
min max min max max	Nm Nm Ibin Ibin Nr.	0.8 1 0.8 0.74
max min max max min max	Nm Ibin Ibin Nr.	1 0.8 0.74 2
max min max max min max	Nm Ibin Ibin Nr.	1 0.8 0.74 2
min max max min max	Ibin Ibin Nr. mm²	0.8 0.74 2
max max min max	Ibin Nr. mm²	0.74
max min max	Nr.	2
min max	mm²	
min max		2
min max		2
min max		2
max		
max		
max		1.5
min	mm²	35
min		
	mm²	1.5
max	mm²	35
		IP20 front
		25 5110
ormal		Vertical plan
wable		±30°
vabic		Screw / DIN rai
		35mm
	g	1020
	9	1020
	cycles	15000000
	cycles	1300000
	Cyclcs	1300000
lload	cycles	1300000
lload	cycles	1500000
i iuau	Cycles	
		yes
	\/	220
	V	230
	0/17	0.0
	%Us	80
min	%Us	110
min max		
max	%Us	20
max min	%Us	55
max		
max min		
max min		85
max min	%Us	110
max min max	%Us %Us	
max min max min		
max min max min		40
		min %Us

of 50/60Hz coil powered at 50Hz

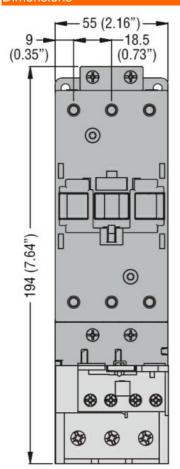


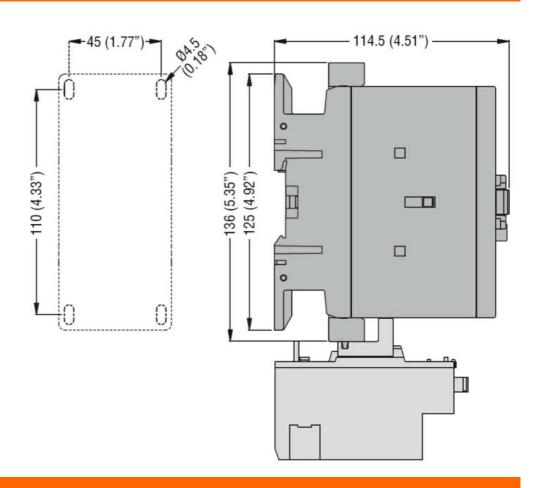
		in-rush	VA	210
		holding	VA	15
	of 50/60Hz coil powered at 60Hz	9		
	or our our in powered at corning	in-rush	VA	195
		holding	VA	13
	of 60Hz coil powered at 60Hz	Holding	VA	10
	of our iz coil powered at our iz	in-rush	VA	210
		holding	VA VA	15
Dissinction at halding	20°C 50U-	Holding	W	5
Dissipation at holding ≤	20 C 50HZ		VV	3
Max cycles frequency				2000
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us co				
	in AC			
	Closing NO			
		min	ms	12
		max	ms	28
	Opening NO			
		min	ms	8
		max	ms	22
UL technical data				
Rated operational volta	ge AC (UL)		V	600
	for three-phase AC motor			
(,		at 480V	Α	77
		at 600V	Α	77
Yielded mechanical per	rformance	ut 000 v	,,	
riciaca mediameai pei	for three-phase AC motor			
	ioi illiee-pilase AC Illotoi	200/208V	HP	25
			HP	
		220/230V		30
		460/480V	HP	60
		575/600V	HP	75
General USE	_			
	Contactor			
		AC current	A	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				
2l. 2. 2. 2. 2.	Operating temperature			
	opolating temperature	min	°C	-50
		max	°C	70
	Storage temperature	IIIdX	U	10
	Storage temperature		°C	60
		min	°C	-60
NA ICC - I		max	°C	80
Max altitude			m	3000
Resistance & Protectio	n			_
Pollution degree				3



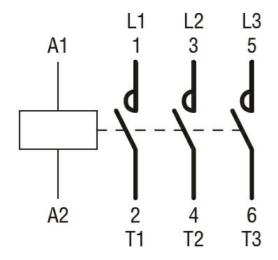
ENERGY AND AUTOMATION

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



BF8000A230

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 80A, AC COIL 50/60HZ,

CCC	
cULus	

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching