



Product designation	Power contactor
Product type designation	BF80

Product type designation			БГОО
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
		•	



	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			
,	≤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			
120 max sams in 200 200 mm 2 m = 10 m	≤24V	Α	60
	48V	Α	50
	75V	Α	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		
120 max outfork to in 200 200 with 2/10 = 10mb with 0 poles in series	≤24V	Α	80
	48V	A	70
	75V	A	70
	110V	A	60
	220V	A	64
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	220 V		04
ILO max current le in DOS-DOS with L/N 3 Toms with 4 poles in series	≤24V	Α	90
	48V	A	90
	75V	A	90
	110V	A	75
	220V	A	80
Short-time allowable current for 10s (IEC/EN60947-1)	220 V		640
Protection fuse			040
Flotection luse	gG (IEC)	Α	125
	aM (IEC)	A	80
Making consoity (PMC value)	aivi (IEC)	A	800
Making capacity (RMS value)		A	000
Breaking capacity at voltage	440V	۸	640
	440 V 500 V	A	640
		A	625
Panintanan par pala (ayaraga yaliya)	690V	A	456
Resistance per pole (average value)		mΩ	0.6
Power dissipation per pole (average value)	1+1	147	7.0
	Ith	W	7.9
Tightoning targue for terminals	AC-3	W	3.8

Tightening torque for terminals



		min	Nm	4
		max	Nm	5
		min	Ibin	2.95
		max	Ibin	3.69
Tightening torque for o	coil terminal			
		min	Nm	0.8
		max	Nm	1
		min	Ibin	0.8
		max	Ibin	0.74
Max number of wires s	simultaneously connectable		Nr.	2
Conductor section				
Conductor Cootion	AWG/Kcmil			
	AWO/Rohiii	max		2
	Flexible w/o lug conductor section	Παλ		
	Flexible w/o lug conductor section	min	mama ²	1 E
		min	mm²	1.5
	Flagger skyling og 1 og 2	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
Fixing				35mm
Weight			g	1020
Operations				
Mechanical life			cycles	15000000
Electrical life			cycles	1300000
Safety related data				
	0d according to EN/ISO 13489-1			
1 01101111011100 10101 21	54 455514mg to 214.55 15 155 1	rated load	cycles	1300000
		mechanical load	cycles	1500000
EMC compatibility		The chanical load	Cycles	
AC coil operating				yes
	:0/c0Ll=		V	24
Rated AC voltage at 5	00/00H2		V	24
AC operating voltage	(-0/001)			
	of 50/60Hz coil powered at 50Hz			
	pick-up		0/11	22
		min	%Us	80
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz			
	· · · · · · · · · · · · · · · · · · ·			
	pick-up			
	-	min	%Us	85
	-	min max	%Us %Us	85 110
	-			
	pick-up			
	pick-up	max	%Us	110

AC average coil consumption at 20°C

of 50/60Hz coil powered at 50Hz

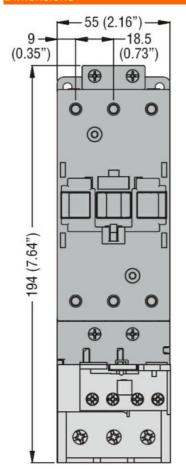


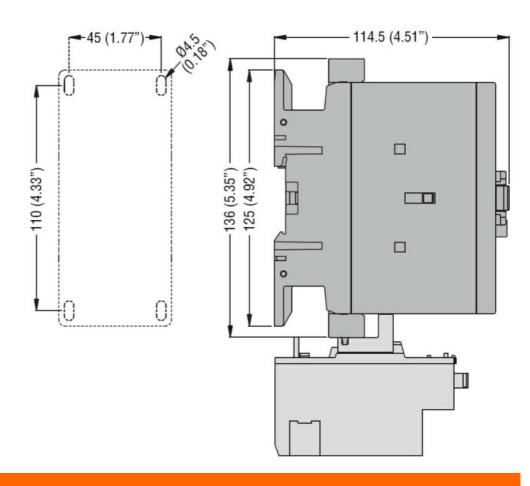
		in-rush	VA	210
		holding	VA	15
	of 50/60Hz coil powered at 60Hz		• • • • • • • • • • • • • • • • • • • •	
	of 30/00112 con powered at 00112	in-rush	VA	195
			VA VA	13
	-f COLL	holding	VA	13
	of 60Hz coil powered at 60Hz) /A	0.4.0
		in-rush	VA	210
		holding	VA	15
Dissipation at holding	≤20°C 50Hz		W	5
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us co	ontrol			
	in AC			
	Closing NO			
		min	ms	12
		max	ms	28
	Opening NO	max	5	_ -
	Opening NO	min	ms	8
				22
	· . DO	max	ms	
	in DC			
	Closing NO			4.0
		min	ms	40
		max	ms	85
	Opening NO			
		min	ms	20
		max	ms	55
UL technical data				
Rated operational volta			V	600
Rated operational volta	age AC (UL) for three-phase AC motor		V	600
Rated operational volta		at 480V	V A	600 77
Rated operational volta		at 480V at 600V		·
Rated operational volta Full-load current (FLA)	for three-phase AC motor		А	77
Rated operational volta	for three-phase AC motor		А	77
Rated operational volta Full-load current (FLA)	for three-phase AC motor	at 600V	A A	77 77
Rated operational volta Full-load current (FLA)	for three-phase AC motor	at 600V 200/208V	A A HP	77 77 25
Rated operational volta Full-load current (FLA)	for three-phase AC motor	at 600V 200/208V 220/230V	A A HP HP	77 77 25 30
Rated operational volta Full-load current (FLA)	for three-phase AC motor	at 600V 200/208V 220/230V 460/480V	A A HP HP HP	77 77 25 30 60
Rated operational volta Full-load current (FLA) Yielded mechanical pe	for three-phase AC motor	at 600V 200/208V 220/230V	A A HP HP	77 77 25 30
Rated operational volta Full-load current (FLA)	for three-phase AC motor erformance for three-phase AC motor	at 600V 200/208V 220/230V 460/480V	A A HP HP HP	77 77 25 30 60
Rated operational volta Full-load current (FLA) Yielded mechanical pe	for three-phase AC motor	at 600V 200/208V 220/230V 460/480V 575/600V	A A HP HP HP	77 77 25 30 60 75
Rated operational volta Full-load current (FLA) Yielded mechanical pe	for three-phase AC motor erformance for three-phase AC motor Contactor	at 600V 200/208V 220/230V 460/480V	A A HP HP HP	77 77 25 30 60
Rated operational volta Full-load current (FLA) Yielded mechanical pe	for three-phase AC motor erformance for three-phase AC motor Contactor fuse, 600V	at 600V 200/208V 220/230V 460/480V 575/600V	A A HP HP HP	77 77 25 30 60 75
Rated operational volta Full-load current (FLA) Yielded mechanical pe	for three-phase AC motor erformance for three-phase AC motor Contactor	at 600V 200/208V 220/230V 460/480V 575/600V AC current	A A HP HP HP	77 77 25 30 60 75
Rated operational volta Full-load current (FLA) Yielded mechanical pe	for three-phase AC motor erformance for three-phase AC motor Contactor fuse, 600V	at 600V 200/208V 220/230V 460/480V 575/600V	A A HP HP HP	77 77 25 30 60 75
Rated operational volta Full-load current (FLA) Yielded mechanical pe	for three-phase AC motor erformance for three-phase AC motor Contactor fuse, 600V	at 600V 200/208V 220/230V 460/480V 575/600V AC current Short circuit current Fuse rating	A A HP HP HP HP	77 77 25 30 60 75
Rated operational volta Full-load current (FLA) Yielded mechanical pe	for three-phase AC motor erformance for three-phase AC motor Contactor fuse, 600V	at 600V 200/208V 220/230V 460/480V 575/600V AC current	A A HP HP HP HP	77 77 25 30 60 75 115
Rated operational volta Full-load current (FLA) Yielded mechanical pe	for three-phase AC motor erformance for three-phase AC motor Contactor fuse, 600V	at 600V 200/208V 220/230V 460/480V 575/600V AC current Short circuit current Fuse rating	A A HP HP HP HP	77 77 25 30 60 75 115
Rated operational volta Full-load current (FLA) Yielded mechanical pe	for three-phase AC motor erformance for three-phase AC motor Contactor fuse, 600V High fault	at 600V 200/208V 220/230V 460/480V 575/600V AC current Short circuit current Fuse rating	A A HP HP HP HP	77 77 25 30 60 75 115
Rated operational volta Full-load current (FLA) Yielded mechanical pe	for three-phase AC motor erformance for three-phase AC motor Contactor fuse, 600V High fault	at 600V 200/208V 220/230V 460/480V 575/600V AC current Short circuit current Fuse rating Fuse class Short circuit current	A A HP HP HP A kA A	77 77 25 30 60 75 115
Rated operational volta Full-load current (FLA) Yielded mechanical pe	for three-phase AC motor erformance for three-phase AC motor Contactor fuse, 600V High fault	200/208V 220/230V 460/480V 575/600V AC current Short circuit current Fuse rating Fuse class Short circuit current Fuse rating	A A HP HP HP HP	77 77 25 30 60 75 115 100 200 J
Rated operational volta Full-load current (FLA) Yielded mechanical pe General USE Short-circuit protection	for three-phase AC motor erformance for three-phase AC motor Contactor fuse, 600V High fault	at 600V 200/208V 220/230V 460/480V 575/600V AC current Short circuit current Fuse rating Fuse class Short circuit current	A A HP HP HP A kA A	77 77 25 30 60 75 115
Rated operational volta Full-load current (FLA) Yielded mechanical pe General USE Short-circuit protection Ambient conditions	for three-phase AC motor erformance for three-phase AC motor Contactor fuse, 600V High fault	200/208V 220/230V 460/480V 575/600V AC current Short circuit current Fuse rating Fuse class Short circuit current Fuse rating	A A HP HP HP A kA A	77 77 25 30 60 75 115 100 200 J
Rated operational volta Full-load current (FLA) Yielded mechanical pe General USE Short-circuit protection	for three-phase AC motor erformance for three-phase AC motor Contactor fuse, 600V High fault Standard fault	200/208V 220/230V 460/480V 575/600V AC current Short circuit current Fuse rating Fuse class Short circuit current Fuse rating	A A HP HP HP A kA A	77 77 25 30 60 75 115 100 200 J
Rated operational volta Full-load current (FLA) Yielded mechanical pe General USE Short-circuit protection Ambient conditions	for three-phase AC motor erformance for three-phase AC motor Contactor fuse, 600V High fault	200/208V 220/230V 460/480V 575/600V AC current Short circuit current Fuse rating Fuse class Short circuit current Fuse rating	A A HP HP HP A kA A	77 77 25 30 60 75 115 100 200 J



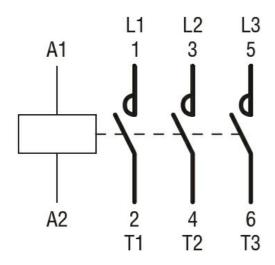
	max	°C	70
Storage temperature			
	min	°C	-60
	max	°C	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3

Dimensions





Wiring diagrams



Certifications and compliance

Compliance





CONTACTEUR BF8000A, 3P (NO), 80A AC3, 24V 50/60HZ

	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
	cULus
ETIM elegation	

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching