



Product designation Product type designation			Power contactor 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		А	115
Operational current le			
	AC-1 (≤40°C)	А	115
	AC-1 (≤55°C)	А	95
	AC-1 (≤70°C)	А	80
	AC-3 (≤440V ≤55°C)	А	80
	AC-4 (400V)	A	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 1000V	kW kW	55 37
Rated operational power AC-1 (T≤40°C)	1000 v	ĸvv	37
	230V	kW	43
	230V 400V	kW	43 76
	400V 500V	kW	95
	690V	kW	120
IEC max current le in DC1 with L/R $\leq$ 1ms with 1 poles in series	0001		120
	≤24V	А	70
	48V	A	60
	75V	A	60
	110V	А	8
	220V	А	-
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
•	≤24V	А	100
	48V	А	100
	75V	А	100
	110V	А	80
	220V	А	9
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			
	≤24V	А	100
	48V	А	100
	75V	А	100



## **BF8000A230** Three-pole contactor, IEC operating current le (AC3) = 80A, AC coil 50/60Hz, 230VAC

	110V	А	85
	220V	Α	95
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series			
	≤24V	А	100
	48V	А	100
	75V	А	100
	110V	A	100
	220V	A	115
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 1 poles in series	-041/	•	40
	≤24V	A	40
	48V	A	30
	75V	A	30
	110V	A	3
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 2 poles in series	220V	A	_
The current is in DC3-DC5 with $L/R \le 15$ ms with 2 poiss in series	≤24V	٨	60
	≤24V 48V	A A	60 50
	48V 75V	A	50
	75V 110V	A	40
	220V	A	5
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	220 V	~	5
	≤24V	А	80
	48V	A	70
	48V 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			
	≤24V	А	90
	48V	А	90
	75V	А	90
	110V	А	75
	220V	А	80
Short-time allowable current for 10s (IEC/EN60947-1)		А	640
Protection fuse			
	gG (IEC)	А	125
	aM (IEC)	А	80
Making capacity (RMS value)		А	800
Breaking capacity at voltage			
	440V	А	640
	500V	А	625
	690V	А	456
Resistance per pole (average value)		mΩ	0.6
Power dissipation per pole (average value)			
	Ith	W	7.9
	AC3	W	3.8
Tightening torque for terminals			
	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

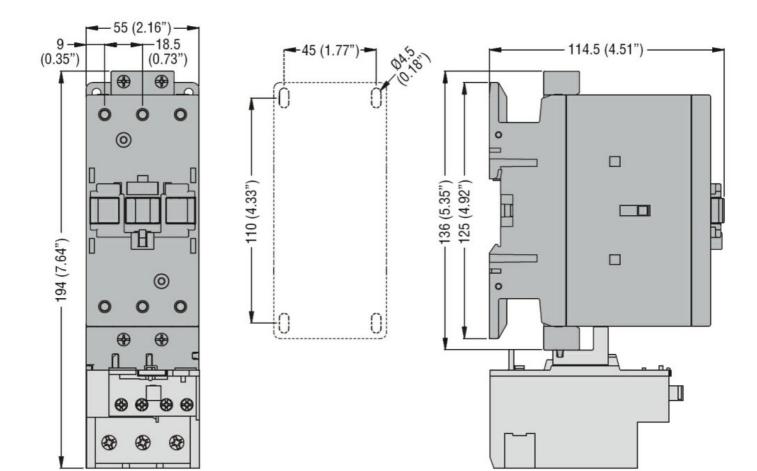


		min	lbin	0.8
		max	Ibin	0.74
Max number of wires	simultaneously connectable	тах	Nr.	2
Conductor section				
	AWG/Kcmil			
		max		2
	Flexible w/o lug conductor section			
		min	mm²	1.5
		max	mm²	35
	Flexible c/w lug conductor section		2	
		min	mm²	1.5 35
Dower terminal prote	ation according to IEC/EN 60520	max	mm²	JD IP20 front
Mechanical features	ction according to IEC/EN 60529			IP20 II0IIL
Operating position				
		normal		Vertical plan
		allowable		±30°
<b></b>				Screw / DIN rail
Fixing				35mm
Weight			g	1020
Conductor section				
	AWG/kcmil conductor section			
		max		2
Operations				
Mechanical life			cycles	15000000
Electrical life			cycles	1300000
Safety related data				
Performance level B	10d according to EN/ISO 13489-1	rotod lood	ميامه	1200000
		rated load mechanical load	cycles	1300000
Mirror contate accord	ling to IEC/EN 609474-4-1	mechanical load	cycles	1500000
EMC compatibility	ang to rec/en 009474-4-1			yes
AC coil operating				yes
Rated AC voltage at	50/60Hz		V	230
AC operating voltage			•	200
ie operanig renage	of 50/60Hz coil powered at 50Hz			
	pick-up			
		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
		max	%Us	110
	drop-out	*.	0/11-	40
		min	%Us %Uc	40 55
	sumption at 20°C	max	%Us	55
AC average coil cons				
	of 50/60Hz coil powered at 50Hz	in-rush	\//	210
		holding	VA VA	15
		noiuirig	٧٨	15

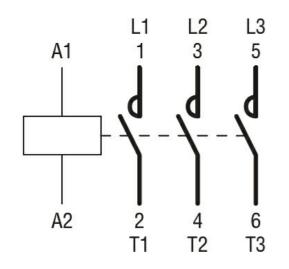


	of 50/60Hz coil powered at 60Hz			
		in-rush	VA	195
		holding	VA	13
	of 60Hz coil powered at 60Hz	lieiding	.,,	
		in-rush	VA	210
		holding	VA VA	15
Dissinction at holding	<20°C 50U-	noiuing	 W	5
Dissipation at holding	SZU C 50HZ		VV	5
Max cycles frequency				2000
Mechanical operation			cycles/h	3600
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				
Full-load current (FLA)	for three-phase AC motor			
. ,		at 480V	А	77
		at 600V	А	77
Yielded mechanical pe	erformance			
	for three-phase AC motor			
		200/208V	HP	25
		220/230V	HP	30
		460/480V	HP	60
		575/600V	HP	75
General USE		575/0007	111	15
General USE	Contactor			
	Contactor	AC current	^	115
	fuer (00)/	AC current	A	115
Short-circuit protection				
	High fault			100
		Short circuit current	kA	100
		Fuse rating	А	200
		Fuse class		J
	Standard fault			
		Short circuit current	kA	10
		Fuse rating	А	200
		Fuse class		RK5
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°Č	80
Max altitude		Пал	 	3000
Resistance & Protection	n			
Pollution degree				3
Dimensions				5
Billiensions				





## Wiring diagrams



## Certifications and compliance

Compliance	
	CSA C22.2 n° 60947-1
	CSA C22.2 n° 60947-4-1
	IEC/EN 60947-1
	IEC/EN 60947-4-1
	UL 60947-1
	UL 60947-4-1
Certificates	
	CCC



cULus

ETIM classification

**ETIM 8.0** 

EC000066 -Power contactor, AC switching