

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 80 Α 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	A	9
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	220 V		
TEC max current le in DCT with L/K > mis with 5 poles in series	-04 1/	^	400
	≤24V	A	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		- , ,	- 110
ILC max current le in DC3-DC3 with L/N = 13ms with 1 poles in series	≤24V	۸	40
		A	40
	48V	A	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			
	≤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			
120 max carrent to in 200 200 mar 2/1/2 forms may o polos in conce	≤24V	Α	80
	48V	A	70
	75V		
		A	70
	110V	A	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)	A	80
Making capacity (RMS value)	aivi (ILO)	A	800
			000
Breaking capacity at voltage	4.4017	Δ.	0.40
	440V	A	640
	500V	Α	625
	690V	A	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			
gsig torquo ioi torrinitato			





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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	lbin	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	THOM:		
		min	mm²	1.5
		max	mm²	35
Power terminal protect	ction according to IEC/EN 60529	IIIdA	111111	IP20 front
Mechanical features	ction according to IEC/EN 60329			IF20 HOHL
Operating position				Martinal plan
		normal		Vertical plan ±30°
		allowable		
Fixing				Screw / DIN rail 35mm
\/\a:abt				
Weight			g	1020
Conductor section	A.M.O. (1)			
	AWG/kcmil conductor section			
0 "		max		2
Operations				
Mechanical life			cycles	15000000
Electrical life			cycles	1300000
Safety related data				
Performance level B1	10d according to EN/ISO 13489-1			
		rated load	cycles	1300000
		mechanical load	cycles	15000000
Mirror contats accord	ing to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 6	60Hz		V	230
AC operating voltage				
	of 60Hz coil powered at 60Hz			
	pick-up			
	F	min	%Us	80
		max	%Us	110
	drop-out	max	.000	
	Grop out	min	%Us	20
		max	%Us	55
AC average coil cons	umption at 20°C	max	,000	
, to avolage our cons	of 60Hz coil powered at 60Hz			
	or our iz con powered at 00Hz	in-rush	VA	210
		holding	VA	15

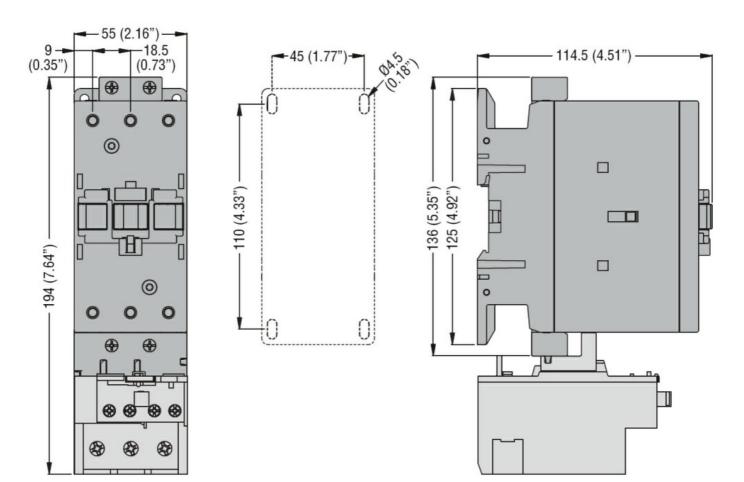
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Dissipation at holding ≤20°C 50Hz		W	5
Max cycles frequency			
Mechanical operation		cycles/h	3600
Operating times			
Average time for Us control			
in AC			
Closing NO			4.0
	min	ms	12
Onening NO	max	ms	28
Opening NO	min	mo	8
	min max	ms ms	22
in DC	IIIax	1115	22
Closing NO			
Closing NO	min	ms	40
	max	ms	85
Opening NO	IIIdA	1113	30
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 or 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			

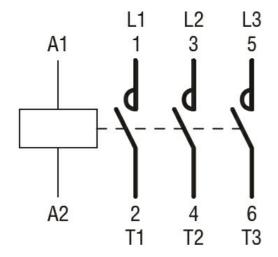
230VAC



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



BF8000A23060

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cULus

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching