

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 80A, AC COIL 60HZ, 24VAC



			30 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			
operational modulons,	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)	A	80
	AC-4 (400V)	Α	38
Rated operational power AC-3 (T≤55°C)	710 1 (1001)		
Trailed operational power 710 o (1=00 o)	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)	1000 V	IX V	01
Traced operational outletter to o (1=00 o)	230V	Α	80
	400V	A	80
	415V	A	80
	440V	A	80
	500V	A	78
	690V	A	57
	1000V	A	28
Rated operational power AC-1 (T≤40°C)	1000 V		20
Nated operational power AO-1 (1340 O)	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	030 V	KVV	120
120 max outlett to it DOT with L/1\ 2 miles with 1 poles itt selles	≤24V	Α	70
	48V	A	60
	75V	A	60
	110V	A	8
	220V		
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	2201	Α	_
TEO THAN CUITETIC TE HT DOT WITH L/K > THIS WITH 2 POICS IT SELLES	-2AV	٨	100
	≤24V	Α	100





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

	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	2201		
120 max current le in 201 with 2/1 = mis with 3 poles in series	≤24V	۸	100
		A	
	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	A	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	220 V		
TEC max current le in DC3-DC3 with L/N = 13ms with 2 poles in series	40 AV /		0.0
	≤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			
•	≤24V	Α	80
	48V	A	70
	75V		
		A	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)	220 V	A	640
·			040
Protection fuse	~O (IFO)	Λ	405
	gG (IEC)	Α	125
	aM (IEC)	A	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)	030 v	mΩ	0.6
Resistance per pole (average value)		11122	0.0
Power dissipation per pole (average value)	• • •		7.0
	Ith	W	7.9
	AC-3	W	3.8
Tightening torque for terminals			





THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 80A, AC COIL 60HZ, 24VAC

		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		Nr.	2
Conductor section				
	AWG/Kcmil			
	7 (V C/1 C/1111	max		2
	Flexible w/o lug conductor section	- IIIGX		
	rickible w/o lag colladetor section	min	mm²	1.5
			mm²	35
	Florible c/w lug conductor costion	max	111111	JJ
	Flexible c/w lug conductor section		mm²	1.5
		min	mm²	1.5
Devices to service all and the	etion according to IEC/EN 20500	max	mm²	35
	ction according to IEC/EN 60529			IP20 front
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail
				35mm
Weight			g	1020
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
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 6	60Hz		V	24
AC operating voltage				
, ,	of 60Hz coil powered at 60Hz			
	pick-up			
	F	min	%Us	80
		max	%Us	110
	drop-out		,,,,,	
	310p 04t	min	%Us	20
		max	%Us	55
AC average coil cons	sumption at 20°C	IIIdx	/003	
A average con cons	of 60Hz coil powered at 60Hz			
	or our iz con powered at ouriz	in-rush	VA	210
Dissipation of In-1-1's	. <20°C F0LI -	holding	VA	15
Dissipation at holding			W	5
Max cycles frequency				0000
Mechanical operation			cycles/h	3600
Operating times				





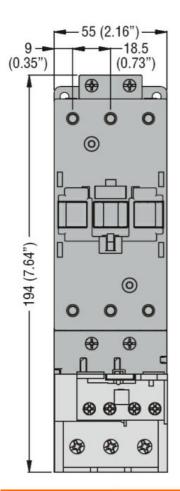
THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 80A, AC COIL 60HZ,

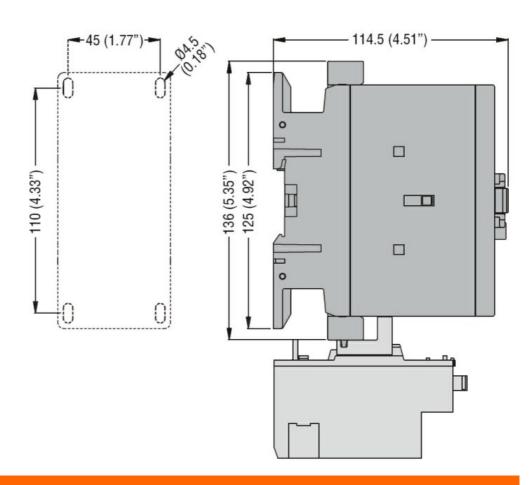
Average time for Us	control				
•	in AC				
		Closing NO			
			min	ms	12
			max	ms	28
		Opening NO			
			min	ms	8
			max	ms	22
	in DC				_
		Closing NO			
			min	ms	40
			max	ms	85
		Opening NO			
			min	ms	20
			max	ms	55
UL technical data					
Rated operational vo				V	600
Full-load current (FL	A) for three-phase A	C motor			
			at 480V	Α	77
			at 600V	Α	77
Yielded mechanical	performance				
	for three-phase A	AC motor			
			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 protecti	on 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 tempe	rature			
			min	°C	-50
			max	°C	70
	Storage tempera	ture			
			min	°C	-60
			max	°C	80
Max altitude				m	3000
Resistance & Protect	ction				
Pollution degree					3
Dimensions					



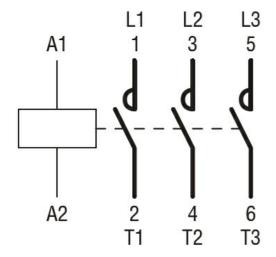
ENERGY AND AUTOMATION

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





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



BF8000A02460

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

cULus

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching