



			10 10 10 101
Product designation			Power contactor
Product type designation			BF80
Contact characteristics			
Number of poles		Nr.	4
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 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	A	100
	75V	A	100
	110V	Α	80
	220V	A	9
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	220 V	- ' '	
can six to in Bo t mai bit = this mai o polos in solito	≤24V	Α	100
	48V	A	100
	75V	A	100
	134	^	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			
	≤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	Α	70
	75V	Α	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		<u> </u>
The max current to in 600-600 with E/TC = 10m3 with 4 poics in 30m63	≤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	A	640
Protection fuse			040
Protection ruse	«C (IEC)	۸	105
	gG (IEC)	A	125
Malifer and arity (DMC value)	aM (IEC)	A	80
Making capacity (RMS value)		Α	800
Breaking capacity at voltage	4.403.4		0.40
	440V	A	640
	500V	A	625
	690V	Α	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			
	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		0.74
simultaneously connectable		Nr.	2
ANA 0.11			
AWG/Kcmil			2
Clavible w/e lug conductor coction	max		2
Flexible w/o lug conductor section	min	mm²	1.5
			35
Flexible c/w lug conductor section	IIIdA	111111	33
Tickibic 6/W lag conductor section	min	mm²	1.5
			35
tion according to IEC/EN 60529			IP20 front
ÿ			
	normal		Vertical plan
	allowable		±30°
			Screw / DIN rail
			35mm
		g	1240
AWG/kcmil conductor section			
	max		2
			4.5000000
			15000000
		cycles	1300000
0d according to EN/ISO 12490 1			
od according to EN/13O 13469-1	rated load	ovelee	1300000
		•	1500000
ng to IFC/FN 609474-4-1	THEOHAITICAI IOAA	Cycles	yes
19 10 12 07 21 1 000 17 1 1 1			yes
			yes
0/60Hz		V	24
of 50/60Hz coil powered at 50Hz			
·	min	%Us	80
	max	%Us	110
drop-out			
	min		20
	max	%Us	55
•			
pick-up		0/11	
			85
٠٠	max	%US	110
arop-out		0/110	40
			40 55
umption at 20°C	IIIdX	/0US	JJ
or 50/00112 con powered at 50/12	in-ruch	\/Δ	210
			15
	Holding	٧,١	. •
	AWG/Kcmil Flexible w/o lug conductor section Flexible c/w lug conductor section tion according to IEC/EN 60529 AWG/kcmil conductor section Od according to EN/ISO 13489-1 Ing to IEC/EN 609474-4-1 O/60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out umption at 20°C of 50/60Hz coil powered at 50Hz	AWG/Kcmil Flexible w/o lug conductor section Flexible c/w lug conductor section min max Flexible c/w lug conductor section min max tion according to IEC/EN 60529 AWG/kcmil conductor section max Od according to EN/ISO 13489-1 rated load mechanical load ng to IEC/EN 609474-4-1 0/60Hz of 50/60Hz coil powered at 50Hz pick-up min max drop-out min max of 50/60Hz coil powered at 60Hz pick-up min max drop-out min max	Max Nr.

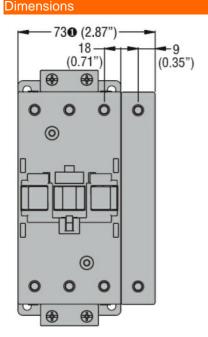


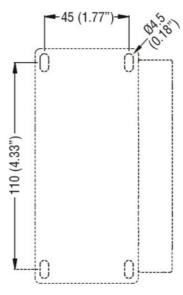


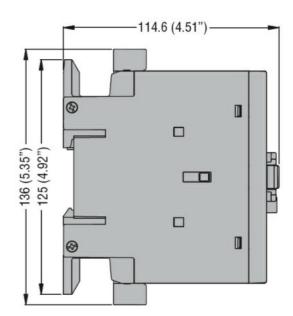
	of 50/60Hz coil power	ared at 60Hz			
	or 30/00112 con powe	ared at our iz	in-rush	VA	195
			holding	VA	13
	of 60Hz coil powered	1 at 60Hz	Holding	V/\	10
	or dornz con powered	i at ouriz	in-rush	VA	210
			holding	VA VA	15
Discipation at holding	<20°C E0∐-		riolaling	W	5
Dissipation at holding	≥20 C 30⊓Z			VV	5
Max cycles frequency				ovelee/b	2600
Mechanical operation				cycles/h	3600
Operating times	ontrol				
Average time for Us co					
	in AC	Ola aira a NO			
		Closing NO			40
			min	ms	12
		0 1 110	max	ms	28
		Opening NO			0
			min	ms	8
			max	ms	22
	in DC	a.			
		Closing NO			
			min	ms	40
			max	ms	85
		Opening NO			
			min	ms	20
			max	ms	55
UL technical data					
Full-load current (FLA)	for three-phase AC m	otor			
			at 480V	Α	77
-			at 600V	Α	77
Yielded mechanical pe	erformance				
	for three-phase AC n	notor			
			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				
	5		Short circuit current	kA	100
			Fuse rating	Α	200
			Fuse class		J
	Standard fault		. 200 0.000		
	Januara radit		Short circuit current	kA	10
			Fuse rating	A	200
			Fuse class	, ,	RK5
Ambient conditions			1 430 01433		
Temperature					
romporaturo	Operating temperatu	rΔ			
	Operating temperatu	10	min	°C	-50
				°C	70
	Storage temperature		max	U	10
	Storage temperature		min	°C	-60
			min		-00



	max	°C	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3

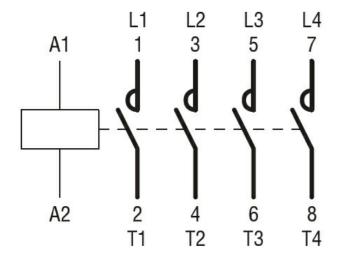






BF80T2 82mm/3.23"

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

BF80T4A024

CCC

cULus

ETIM classification



BF80T4A024

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 115A, AC COIL 50/60HZ,

ETIM 8.0

EC000066 -Power contactor, AC switching