

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



			10 10 10
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	C-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	A	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			
TEO Max outfolk to in Bot With E/K = 1115 With o poles in series			
The max deficit to in Bot with Eff This with a poles in series	≤24V	Α	100
The max deficit to in Bot with Env = mile with a poles in series	≤24V 48V 75V	A A A	100 100 100



FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 115A, AC COIL 50/60HZ, 24VAC

	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
		A	040
Protection fuse	O (IEO)	۸	405
	gG (IEC)	A	125
W. (1940 - 1940	aM (IEC)	Α	80
Making capacity (RMS value)		Α	800
Breaking capacity at voltage	4.401.4		0.40
	440V	Α	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			
	min	Nm	4
	max	Nm	5
	min	lbin	2.95
	max	Ibin	3.69
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1



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

		min	lbin	0.8
		max	Ibin	0.74
	simultaneously connectable		Nr.	2
Conductor section	A1A/C/// are:1			
	AWG/Kcmil	mov		2
	Flexible w/o lug conductor section	max		2
	Flexible w/o lug conductor section	min	mm²	1.5
		max	mm²	35
	Flexible c/w lug conductor section	Пих		
	Tioxibio of Wilag conductor cochem	min	mm²	1.5
		max	mm²	35
Power terminal prote	ction according to IEC/EN 60529			IP20 front
Mechanical features				
Operating position				
. 01		normal		Vertical plan
		allowable		±30°
Eivina				Screw / DIN rail
Fixing				35mm
Weight			g	1240
Operations				
Mechanical life			cycles	15000000
Electrical life			cycles	1300000
Safety related data				
Performance level B	10d according to EN/ISO 13489-1			
		rated load	cycles	1300000
		mechanical load	cycles	15000000
EMC compatibility				yes
AC coil operating	50 (00)			0.1
Rated AC voltage at			V	24
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up	min	%Us	80
		min	%Us %Us	110
	drop-out	max	/0US	110
	urop-out	min	%Us	20
		max	%Us %Us	55
	of 50/60Hz coil powered at 60Hz	Παλ	/003	00
	pick-up			
	ριοιι αρ	min	%Us	85
		max	%Us	110
	drop-out	max		
		min	%Us	40
		max	%Us	55
AC average coil cons	sumption at 20°C			
Ŭ	of 50/60Hz coil powered at 50Hz			
	•	in-rush	VA	210
		holding	VA	15
	of 50/60Hz coil powered at 60Hz			
		in-rush	VA	195
		holding	VA	13
	of 60Hz coil powered at 60Hz			
		in-rush	VA	210



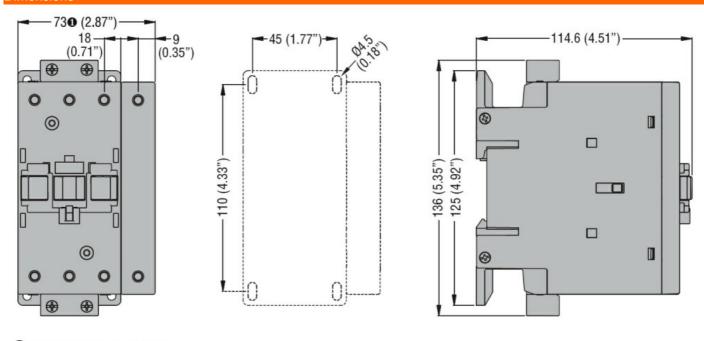
FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 115A, AC COIL 50/60HZ, 24VAC

		holding	VA	15
Dissipation at holding	≤20°C 50Hz	<u> </u>	W	5
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us co				
	in AC			
	Closing NO			
		min	ms	12
	On aging NO	max	ms	28
	Opening NO	main		8
		min	ms ms	22
	in DC	max	ms	22
	Closing NO			
	Closing NO	min	ms	40
		max	ms	85
	Opening NO	max	5	
	3 pog . 10	min	ms	20
		max	ms	55
UL technical data				
Rated operational volta	age AC (UL)		V	600
	for three-phase AC motor			
	·	at 480V	Α	77
		at 600V	Α	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				
	Contactor			
		AC current	Α	115
Short-circuit protection				
	High fault			
		Short circuit current	kA	100
		Fuse rating	Α	200
	Otom along to all	Fuse class		J
	Standard fault	Object state 10 constant	Ι. Α	40
		Short circuit current	kA ^	10
		Fuse rating Fuse class	Α	200 RK5
Ambient conditions		ruse ciass		IXIXO
Temperature				
remperature	Operating temperature			
	Sporating temperature	min	°C	-50
		max	°C	70
	Storage temperature	max		_ · •
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protection	on			
Pollution degree				3

ENERGY AND AUTOMATION

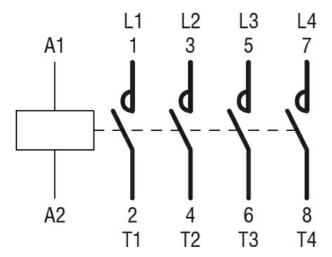
FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 115A, AC COIL 50/60HZ,

Dimensions



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

CCC

cULus

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching