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



Product designation		Power contactor
Product type designation		BF80
Contact characteristics		
Number of poles	nr.	4
Rated insulation voltage Ui	V	1000
Rated impulse withstand voltage Uimp	kV	8
Operating frequency	IX V	0
Operating frequency Operational frequency mir	⊔ -	25
· · · · · · · · · · · · · · · · · · ·		400
Operational frequency max Conventional free air thermal current Ith		
	A	115
Operating current	۸	445
Operational current AC1 (≤40°C		115
Operational current AC3 (≤440V ≤55°C		80
Operational current AC4 (400V	A	38
Rated operational power AC1 (T≤40°C)		
230\		43
400\		76
500\		95
690\	kW	120
Rated operational power AC3 (T≤55°C)		
230\	kW	22
400\	kW	45
415\	kW	45
440\	kW	45
500\	kW	55
690\	kW	55
1000\	kW	37
Short-time allowable current for 10s (IEC/EN60947-1)	Α	640
Protection fuse		
gG (IEC	Α	125
aM (IEC		80
Making capacity (RMS value)	Α	800
Breaking capacity at voltage		
Breaking capacity 440\	Α	640
Breaking capacity 500\		625
Breaking capacity 690\		456
Resistance per pole (average value)	mΩ	0.6
Power dissipation per pole (average value)	11122	0.0
Power dissipation pole (average value)	W	7.9
AC3		3.8
Fightening torque for terminals	VV	3.0
	Nima	4
mir		4
ma)		5
mir		2.95
max	Ibft	3.69



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Tightening torque for o	coil terminal			
		min	Nm	0.8
		max	Nm	1
		min	lbft	0.8
		max	lbft	0.74
max number of wires	simultaneously connectable		nr.	2
Conductor section	·			
	AWG			
		min		14
		max		2
	Flexible w/o lug conductor section			
	The second secon	min	mm²	1.5
		max	mm²	35
	Flexible c/w lug conductor section			
	Tioxibio 0, wildy defination dedition	min	mm²	1.5
		max	mm²	35
Power terminal protec	tion according to IEC/EN 60529	IIIQX	111111	IP20 front
Auxiliary contact chara				11 20 110111
Operational current A			А	115
	,		А	110
Operating current DC1	13			Corour / DIM roil
		110V	Α	Screw / DIN rail
A male is not as a solition of				35mm
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-40
		max	°C	70
	Storage temperature			
		min	°C	-50
		max	°C	80
Max altitude			m	3000
Operating position				
		normal		Vertical plan
		allowable		±30°
Mounting				Screw / DIN rail
				35mm
Weight			g	1.28
Operations				
Mechanical life			Cycles	15000000
Electrical life			Cycles	1300000
Safety related data			•	
•	0d according to EN/ISO 13489-1			
	5	rated load	Cicli	1300000
		mechanical load	Cicli	15000000
Mirror contats accordi	ng to IEC/EN 609474-4-1	moonamou iouu	0.011	yes
EMC compatibility				yes
AC coil operating				y 0 3
AC operating voltage	of 50/00H="			
	of 50/60Hz coil powered at 50Hz			
	pick-up		04::	
		min	%Us	0.8
		max	%Us	1.1
	drop-out			



BF80T4E024

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			max	%Us	≤0.75 Us min
	of 50/60Hz coil pov	wered at 60Hz			
		pick-up			
			min	%Us	0.8
			max	%Us	1.1
		drop-out			
			max	%Us	0.75
AC operating voltage					
, ,	of 50/60Hz coil pov	wered at 50Hz			
	'		in-rush	VA	40130
			holding	VA	1.34.4
	of 50/60Hz coil pov	wered at 60Hz			
			in-rush	VA	40130
			holding	VA	1.34.4
Dissipation at holding	≤20°C 50Hz			W	12.5
OC coil operating					11.1.2.0
OC rated control voltage	ne				
20 Tatoa oortifor volta	a_		min	V	20
OC operating voltage			111111		
operating voitage	nick-up				
	pick-up		min	%Us	0.8
				%Us	1.10
	drop cut		max	/005	1.10
	drop-out			0/116	0.0
			min	%Us	0.2
N	40000		max	%Us	0.55
Average coil consuption	on ≤20°C			147	00 405
			in-rush	W	60125
			holding	W	1.72.3
Max cycles frequency					
Mechanical operations				Cycles/h	ı 1500
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
	in DC				
		Closing NO			
			min	ms	40
			max	ms	85
		Opening NO			
			min	ms	20
			max	ms	55
JL technical data					
Full-load current (FLA)	for three-phase AC	motor			
, ,	•		at 480V	Α	77
			at 600V	A	77
			at 000 V	, ,	
Vielded mechanical ne	erformance				
/ielded mechanical pe		` motor			
Yielded mechanical pe	erformance for three-phase AC	> motor		hr	25
Yielded mechanical pe		motor	at 200/208V	hp	25
/ielded mechanical pe		C motor		hp hp	25 30



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at 460/480V hp 60 at 575/600V hp 75

General USE

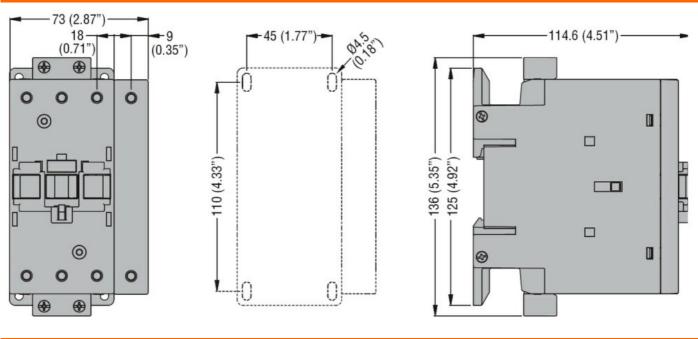
Contactor

AC current A 32

Other features

Pollution degree 3

Dimensions



Wiring diagrams

Certifications and compliance

Certifications

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

Compliance

cULus

ETIM 6 classification

EC000066 - Power contactor, AC switching