



Product designation Power contactor Product type designation BF40

Product type designation			BF40
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	70
Operational current le			
	AC-1 (≤40°C)	Α	70
	AC-1 (≤55°C)	Α	60
	AC-1 (≤70°C)	Α	50
	AC-3 (≤440V ≤55°C)	Α	40
	AC-4 (400V)	A	24
Rated operational current AC-3 (T≤55°C)			
	230V	Α	40
	400V	Α	40
	415V	Α	40
	440V	Α	40
	500V	Α	33
	690V	Α	32
	1000V	Α	21
Rated operational power AC-1 (T≤40°C)			
	230V	kW	26
	400V	kW	46
	500V	kW	58
	690V	kW	79
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series		_	
	≤24V	Α	40
	48V	Α	35
	75V	A	30
	110V	A	8
IFO	220V	A	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	40.437	•	40
	≤24V	A	48
	48V	A	48
	75V	A	45
	110V	A	42
IFO may assume the impO4 with 1/D < 4 with 0 1 '	220V	Α	5
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	20.01	Α.	40
	≤24V	A	48
	48V	A	48
	75V	Α	48





	110V	Α	44	
	220V	Α	56	
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series				
	≤24V	Α	_	
	48V	Α	_	
	75V	Α	_	
	110V	Α	_	
	220V	Α	70	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series				
	≤24V	Α	27	
	48V	Α	23	
	75V	Α	19	
	110V	Α	3	
	220V	Α	_	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series				
	≤24V	Α	32	
	48V	Α	30	
	75V	Α	27	
	110V	Α	22	
	220V	Α	5	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series				
	≤24V	Α	40	
	48V	Α	40	
	75V	Α	38	
	110V	Α	27	
	220V	Α	32	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series				
TEO MAX GATTOTIC III B GO B GO MAT ETY = Tomo MAT T police iii Golice	≤24V	Α	_	
	48V	Α	_	
	75V	Α	_	
	110V	Α	_	
	220V	Α	40	
Short-time allowable current for 10s (IEC/EN60947-1)		A	400	
Protection fuse		- , ,		
T TO COOLON TO CO	gG (IEC)	Α	100	
	aM (IEC)	A	50	
Making capacity (RMS value)	aivi (IEO)	A	400	
Breaking capacity at voltage		, ,	100	
Distancy supports at voltage	440V	Α	320	
	500V	A	265	
	690V	A	256	
Resistance per pole (average value)	000 0	mΩ	0.8	
Power dissipation per pole (average value)		11122	0.0	
i ower dissipation per pole (average value)	Ith	W	3.9	
	AC-3	W	3.9 1.3	
Tightening torque for terminals	AU-3	٧٧	1.3	
rightening torque for terminals		Nice	4	
	min	Nm Nm	4	
	max	Nm	5	
	min	Ibin	2.95	
Timbioning towns for sail towns -1	max	Ibin	3.69	
Tightening torque for coil terminal		N 1.	0.0	
	min	Nm	0.8	
	max	Nm	1	





	min	lbin	0.8
	max		0.74
multaneously connectable		Nr.	2
ANA/O/I/C 'I			
AWG/Kcmil			0
Florible w/o lug conductor costion	max		2
Flexible w/o lug conductor section	min	mm²	1.5
			35
Flexible c/w lug conductor section	IIIax	111111	33
Tickibic 6/W lag corradator section	min	mm²	1.5
			35
on according to IEC/EN 60529			IP20 front
<u> </u>			
	normal		Vertical plan
	allowable		±30°
			Screw / DIN rail
			35mm
		g	1240
AWG/kcmil conductor section			_
	max		2
			4500000
			15000000
		cycles	1500000
d according to FN/ISO 12490 1			
d according to EN/ISO 13469-1	rated load	ovelee	1500000
		•	1500000
a to IFC/FN 609474-4-1	Theoriamear load	Cycles	yes
g to 120/214 000 1/ 1 1 1			yes
			yes
/60Hz		V	400
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
dram and	max	%US	110
arop-out	ma:	0/110	40
			40 55
motion at 20°C	IIIdX	/0US	JJ
of 50/00112 coll powered at 50Hz	in-ruch	\/Δ	210
			15
	noiding	٧,١	. •
	AWG/Kcmil Flexible w/o lug conductor section Flexible c/w lug conductor section on according to IEC/EN 60529 AWG/kcmil conductor section d according to EN/ISO 13489-1 g to IEC/EN 609474-4-1 /60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out mption at 20°C of 50/60Hz coil powered at 50Hz	multaneously connectable AWG/Kcmil Flexible w/o lug conductor section Flexible c/w lug conductor section min max Flexible c/w lug conductor section min max on according to IEC/EN 60529 AWG/kcmil conductor section max d according to EN/ISO 13489-1 rated load mechanical load g to IEC/EN 609474-4-1 //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 pick-up min max drop-out min max max drop-out min max max	Max Ibin Nr.



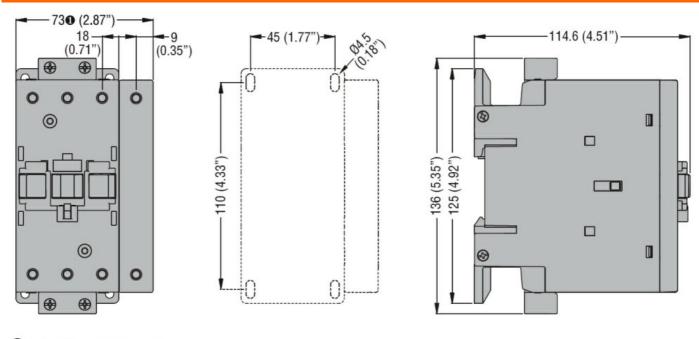


	of 50/60Hz coil power	ed at 60Hz			
	01 30/001 12 con power	cu at 00112	in-rush	VA	195
			holding	VA	13
	of 60Hz coil powered	at 60Hz	Holding	VA	10
	or dornz con powered	at OUTIZ	in-rush	VA	210
			holding	VA VA	15
Dissipation at holding	<20°C 50∐-z		Holding	W	5
Max cycles frequency	\$20 G 30HZ			VV	3
				ovoloo/b	2600
Mechanical operation				cycles/h	3600
Operating times	and and				
Average time for Us co					
	in AC	01 1 110			
		Closing NO			4.0
			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					
Full-load current (FLA)	for three-phase AC mo	tor			
			at 480V	Α	40
			at 600V	Α	32
Yielded mechanical pe	erformance				
·	for single-phase AC m	notor			
	5 1		110/120V	HP	3
			230V	HP	7.5
	for three-phase AC me	otor			
	.5. a 50 pridoo 710 mi		200/208V	HP	10
			220/230V	HP	15
			460/480V	HP	30
			575/600V	HP	30
General USE			373/0007	I II'	
Ochiciai USE	Contactor				
	Contactor		AC 011770-1	٨	70
Chart aireadt mastest's	fuee 6001/		AC current	Α	70
Short-circuit protection					
	High fault				100
			Short circuit current	kA	100
			Fuse rating	Α	150
			Fuse class		J
	Standard fault				
			Short circuit current	kA	5
			Fuse rating	Α	150
			Fuse class		RK5
Ambient conditions					
Temperature					
•	Operating temperature	e			
	. 5		min	°C	-50
				-	



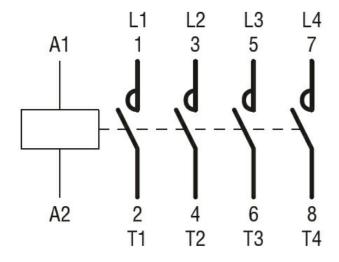
	max	°C	70
Storage temperature			
	min	°C	-60
	max	°C	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3

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



BF40T4A400

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 70A, AC COIL 50/60HZ,

CCC
cULus

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching