



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)	Α	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	Α	30
	110V	Α	8
	220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
	≤24V	Α	48
	48V	Α	48
	75V	Α	45
	110V	Α	42
	220V	Α	5
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
	≤24V	Α	48
	48V	Α	48
	75V	Α	48
	757	А	40



	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 ETT = 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	1.0	
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	Ibin	0.8
		max	Ibin	0.74
	simultaneously connectable		Nr.	2
Conductor section	A1A/C/// om: il			
	AWG/Kcmil	max		2
	Flexible w/o lug conductor section	IIIdX		2
	r lexible w/o lug coridaciór section	min	mm²	1.5
		max	mm²	35
	Flexible c/w lug conductor section			
	C	min	mm²	1.5
		max	mm²	35
	tion according to IEC/EN 60529			IP20 front
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			α .	1240
Conductor section			g	1240
Conductor Section	AWG/kcmil conductor section			
	, to contact of detail	max		2
Operations				
Mechanical life			cycles	15000000
Electrical life			cycles	1500000
Safety related data				
Performance level B1	0d according to EN/ISO 13489-1			
		rated load	cycles	1500000
		mechanical load	cycles	15000000
	ng to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating	50/60H 7		V	48
Rated AC voltage at 5 AC operating voltage	00/00HZ		V	40
Ac operating voltage	of 50/60Hz coil powered at 50Hz			
	pick-up			
	p.s up	min	%Us	80
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	85
	dran aut	max	%Us	110
	drop-out	min	%Us	40
		max	%Us	55
AC average coil consu	umption at 20°C	max	,,,,,	
arerage con conto	of 50/60Hz coil powered at 50Hz			
	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	in-rush	VA	210
		holding	VA	15
		9	-	



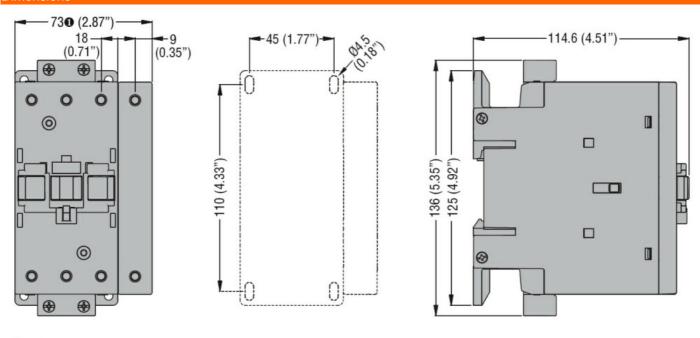


	of 50/60Hz coil power	ared at 60Hz			
	01 30/00112 con powe	sied at our iz	in-rush	VA	195
			holding	VA	13
	of 60Hz coil powered	1 at 60Hz	Holding	VA	10
	or dor iz con powered	1 at 001 12	in-rush	VA	210
			holding	VA	15
Dissipation at holding :	<20°C 50Hz		Tiolding	W	5
Max cycles frequency	320 C 30112			VV	3
Mechanical operation				cycles/h	3600
Operating times				Cycles/II	3000
Average time for Us co	ontrol				
Average time for 05 cc	in AC				
	III AC	Closing NO			
		Closing NO	min	ma	12
				ms ms	28
		Opening NO	max	ms	20
		Opening NO	min	me	8
				ms	
	in DC		max	ms	22
	III DC	Closing NO			
		Closing NO	min		40
			min	ms	40
		Onanina NO	max	ms	85
		Opening NO	min	ma	20
			min	ms	20
UL technical data			max	ms	55
	for three phase AC m	otor			
Full-load current (FLA)	nor three-phase AC in	IOIOI	ot 400\/	٨	40
			at 480V	A	40
Visit is the second and second			at 600V	Α	32
Yielded mechanical pe					
	for single-phase AC	motor	440/400/4		•
			110/120V	HP	3
			230V	HP	7.5
	for three-phase AC r	notor	.		
			200/208V	HP	10
			220/230V	HP	15
			460/480V	HP	30
			575/600V	HP	30
General USE					
	Contactor			_	
			AC current	Α	70
Short-circuit protection					
	High fault				
			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 temperatu	ire			
			min	°C	-50



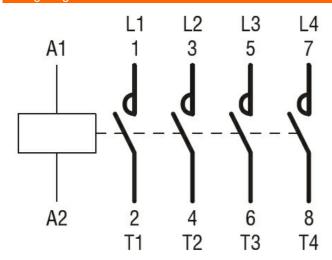
	max	°C	70
Storage temperature			
	min	°C	-60
	max	°C	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3

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



BF40T4A048

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

CCC
cULus

ETIM classification

ETIM 8.0

BF40T4A048

EC000066 -Power contactor, AC switching