



Product designation Power contactor Product type designation BF40

Contact characteristics Number of poles Rated insulation voltage Ui IEC/EN Rated impulse withstand voltage Uimp Operational frequency IEC Conventional free air thermal current Ith		Nr. V kV	4 1000
Rated insulation voltage Ui IEC/EN Rated impulse withstand voltage Uimp Operational frequency		V	
Rated insulation voltage Ui IEC/EN Rated impulse withstand voltage Uimp Operational frequency			1000
Rated impulse withstand voltage Uimp Operational frequency		kV	
Operational frequency			8
IEC Conventional free air thermal current Ith			
IEC Conventional free air thermal current Ith	min	Hz	25
IEC Conventional free air thermal current Ith	max	Hz	400
		Α	70
Operational current le			
	AC-1 (≤40°C)	Α	70
	AC-1 (≤55°C)	Α	60
	AC-1 (≤70°C)	Α	50
A	.C-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	A	45
	110V	A	42
	220V	Α	5
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series		_	
	≤24V	Α	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	



BF40T4A230

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 70A, AC COIL 50/60HZ, 230VAC

Weight g 1240 Conductor section max 2 Operations Mechanical life cycles 15000000 Electrical life cycles 1500000 Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 1500000 Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility yes AC coil operating Rated AC voltage at 50/60Hz V 230					
Max number of wires simultaneously connectable Nr. 2 Conductor section AWG/Kcmil max 2 Flexible w/o lug conductor section min mm² 1.5 Flexible c/w lug conductor section min mm² 1.5 Flexible c/w lug conductor section min mm² 1.5 Power terminal protection according to IEC/EN 60529 mm² 1.5 Mechanical features mm² 1.5 mm² 35 Power terminal protection according to IEC/EN 60529 monmal allowable 4.30° 1.5 mm² 1.5 mm² 1.5 mm² 35 1.5 mm² 1.5 mm² 2 1.5 mm² 3.5 1.5 mm² 1.5 mm² 1.5 mm² 3.5 1.5 mm² 1.5 mm² 2 2 1.5 mm² 2 2 1.5 mm² 2 2 1.5 1.5 1.5 1.5 1.5 1.5 1.0 1.0 1.0 1.0 1.0 1.0			min		
AWG/Kcmil			max		
AWG/Kcmil Piexible w/o lug conductor section min max max 1.5 max mm² 1.5 max mm² 3.5 ma		simultaneously connectable		Nr.	2
Plexible w/o lug conductor section	Conductor section				
Flexible w/o lug conductor section		AWG/Kcmil			•
Pickible c/w lug conductor section		Ele 3 le 7 le constituto de la Constitución de la C	max		2
Pickible c/w lug conductor section min min mm² 1.5 max max mm² 35		Flexible w/o lug conductor section			4 =
Flexible c/w lug conductor section					
Minitary Minitary		Florible of white conductor coefficient	max	mm-	35
Prower terminal protection according to IEC/EN 60529 Protont Mechanical features Protection according to IEC/EN 60529 Protont Mechanical features Protont Mechanical features Proton Mechanical features Proton Mechanical features Proton Mechanical features Proton Median		Flexible c/w lug conductor section	min	mm²	1 5
Power terminal protection according to IEC/EN 60529 IP20 front I					
Nechanical features Poperating position Poperating poperatin	Power terminal protec	ation according to IEC/EN 60520	IIIdX	111111	
Operating position normal allowable Vertical plan ±30° Fixing Screw / DIN rail 35mm Screw / DIN rail 35mm Weight g 1240 Conductor section MawG/kcmil conductor section max z Operations Mechanical life cycles 15000000 Safety related data Performance level B10d according to EN/ISO 13489-1 rated load mechanical load counting to EN/ISO 13489-1 yes EMC compatibility yes 1500000 Mirror contats according to IEC/EN 609474-4-1 yes yes EMC colloperating yes yes Rated AC voltage at 50/60Hz y 230 AC colloperating yes yes Rated AC voltage at 50/60Hz coil powered at 50Hz pick-up min %Us 80 AC operating voltage min %Us 20 drop-out min %Us 20					

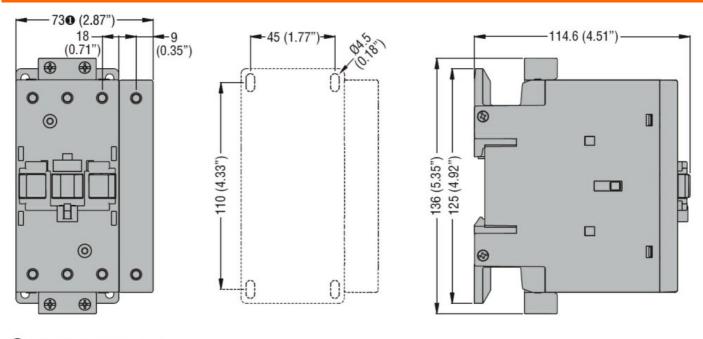


	of 50/60Hz coil powere	ed at 60Hz			
			in-rush	VA	195
			holding	VA	13
	of 60Hz coil powered a	nt 60Hz	<u>_</u>		
			in-rush	VA	210
			holding	VA	15
Dissipation at holding ≤	:20°C 50Hz			W	5
Max cycles frequency					
Mechanical operation				cycles/h	3600
Operating times				0,0100/11	
Average time for Us co	ntrol				
Two rago time for Go co	in AC				
	111710	Closing NO			
		Closing 140	min	ms	12
			max	ms	28
		Opening NO	max	1113	20
		Opening NO	min	ms	8
			max	ms	22
	in DC		IIIdA	1113	
	III DO	Closing NO			
		Sideling INO	min	ms	40
			max	ms	85
		Opening NO	IIIdX	1115	00
		Opening NO	min	ms	20
					55
UL technical data			max	ms	33
	for three-phase AC mot	or			
Tull-load current (LA)	ioi tillee-pilase AC filot	Oi	at 480V	Α	40
			at 600V	A	32
Violded machanical per	rformanaa		at 000 v		32
Yielded mechanical per		otor			
	for single-phase AC m	OlOI	110/120V	HP	2
			230V		3 7.5
	for three phase AC ma	.4	2301	HP	7.5
	for three-phase AC mo	otor	200/2001	LID	10
			200/208V	HP	10
			220/230V 460/480V	HP	15
				HP	30
Canaral LICE			575/600V	HP	30
General USE	Contact				
	Contactor		A C	Λ	70
Object above to a second	f 000\/		AC current	Α	70
Short-circuit protection					
	High fault		Object 1111	1 A	100
			Short circuit current	kA	100
			Fuse rating	Α	150
	Otanalan I (- I)		Fuse class		J
	Standard fault		Chart sine of second of	1. Λ	E
			Short circuit current	kA	5
			Fuse rating	Α	150 DKC
Analainet and Pittern			Fuse class		RK5
Ambient conditions					
Temperature	0				
	Operating temperature			°C	50
			min	~[.	-50



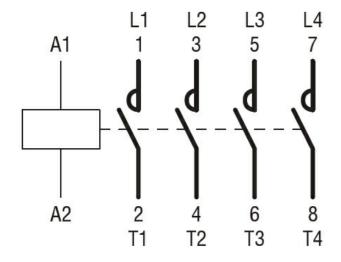
	max	°C	70
Storage temperature			
	min	°C	-60
	max	°C	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3

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



BF40T4A230

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 70A, AC COIL 50/60HZ, 230VAC

CCC
cULus

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching