



Product designation	Power contactor
Product type designation	BF40
Contact characteristics	

Froduct type designation			DF4U
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



	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	A	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			
	≤24V	Α	_
	48V	Α	_
	75V	Α	_
	110V	Α	_
	220V	Α	40
Short-time allowable current for 10s (IEC/EN60947-1)		Α	400
Protection fuse			
	gG (IEC)	Α	100
	aM (IEC)	A	50
Making capacity (RMS value)		A	400
Breaking capacity at voltage			
	440V	Α	320
	500V	Α	265
	690V	A	256
Resistance per pole (average value)		mΩ	0.8
Power dissipation per pole (average value)			
	Ith	W	3.9
	AC-3	W	1.3
Tightening torque for terminals			
	min	Nm	4
	max	Nm	5
	min	lbin	2.95
	max	lbin	3.69
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1



			0.0
	min	lbin Ibin	0.8
Max number of wires simultaneously connectable	max	Nr.	0.74
Conductor section		INI.	
AWG/Kcmil			
	max		2
Flexible w/o lug conductor section			
	min	mm²	1.5
	max	mm²	35
Flexible c/w lug conductor section			
	min	mm²	1.5
Device to recipal and the state of the state	max	mm²	35
Power terminal protection according to IEC/EN 60529  Mechanical features			IP20 front
Operating position			
Operating position	normal		Vertical plan
	allowable		±30°
	4		Screw / DIN rail
Fixing			35mm
Weight		g	1240
Conductor section			
AWG/kcmil conductor section			
	max		2
Operations			4.500000
Mechanical life		cycles	15000000
Electrical life		cycles	1500000
Safety related data Performance level B10d according to EN/ISO 13489-1			
renormance level blod according to EN/130 13409-1	rated load	cycles	1500000
	mechanical load	cycles	15000000
Mirror contats according to IEC/EN 609474-4-1		-,	yes
EMC compatibility			yes
AC coil operating			·
Rated AC voltage at 50/60Hz			
		V	24
AC operating voltage		V	24
of 50/60Hz coil powered at 50Hz		V	24
, , , ,			
of 50/60Hz coil powered at 50Hz	min	%Us	80
of 50/60Hz coil powered at 50Hz pick-up	min max		
of 50/60Hz coil powered at 50Hz	max	%Us %Us	80 110
of 50/60Hz coil powered at 50Hz pick-up	max min	%Us %Us %Us	80 110 20
of 50/60Hz coil powered at 50Hz pick-up drop-out	max	%Us %Us	80 110
of 50/60Hz coil powered at 50Hz pick-up drop-out  of 50/60Hz coil powered at 60Hz	max min	%Us %Us %Us	80 110 20
of 50/60Hz coil powered at 50Hz pick-up drop-out	max min	%Us %Us %Us	80 110 20
of 50/60Hz coil powered at 50Hz pick-up drop-out  of 50/60Hz coil powered at 60Hz	max min max	%Us %Us %Us %Us	80 110 20 55
of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz	max min max min	%Us %Us %Us %Us %Us	80 110 20 55 85 110
of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz pick-up	max min max min	%Us %Us %Us %Us %Us	80 110 20 55 85 110 40
of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz pick-up  drop-out	max min max min max	%Us %Us %Us %Us %Us	80 110 20 55 85 110
of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz pick-up  drop-out  AC average coil consumption at 20°C	max min max min max min max min	%Us %Us %Us %Us %Us	80 110 20 55 85 110 40
of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz pick-up  drop-out	max min max min max min max min max	%Us %Us %Us %Us %Us %Us %Us	80 110 20 55 85 110 40 55
of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz pick-up  drop-out  AC average coil consumption at 20°C	max min max min max min max min	%Us %Us %Us %Us %Us	80 110 20 55 85 110 40



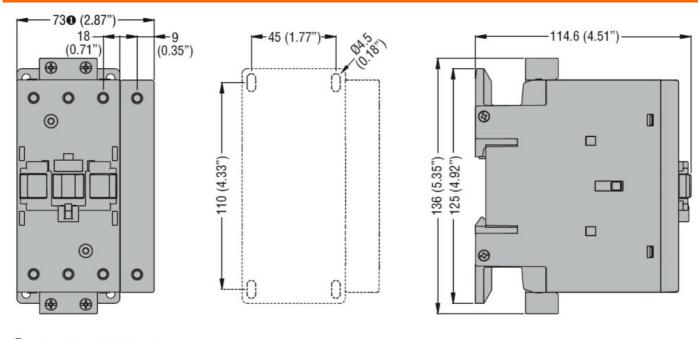


	of 50/60Hz coil powered	d at 60Hz			
			in-rush	VA	195
			holding	VA	13
	of 60Hz coil powered at	60Hz	<u> </u>		
			in-rush	VA	210
			holding	VA	15
Dissipation at holding ≤	:20°C 50Hz			W	5
Max cycles frequency					
Mechanical operation				cycles/h	3600
Operating times				0,0100/11	
Average time for Us co	ntrol				
Twerage time for 03 00	in AC				
		Closing NO			
		Closing 140	min	ms	12
			max	ms	28
		Opening NO	IIIdX	1113	20
		Opening NO	min	ms	8
			max	ms	22
	in DC		IIIdx	1113	
		Closing NO			
		Ciosing INC	min	ms	40
			max	ms	85
		Opening NO	Παλ	1113	00
		Opening NO	min	ms	20
			max	ms	55
UL technical data			IIIdA	1113	33
	for three-phase AC moto	r			
Tuli load culterit (LA)	ioi tilico pilaso Ao illoto	ı	at 480V	Α	40
			at 600V	A	32
Yielded mechanical per	rformance		at 000 v		<u> </u>
rielueu mechanicai pei	for single-phase AC mo	tor			
	ioi sirigie-priase AC mo	lOi	110/120V	HP	3
			230V	HP	7.5
	for three-phase AC mot	Or.	250 V	111	7.5
	ioi unee-phase AC mou	OI .	200/208V	HP	10
			200/208V 220/230V	HP	15
			460/480V	HP	30
			575/600V	HP	30
General USE			373/0007	LIF	
General USL	Contactor				
	COIIIaCiOI		AC current	Α	70
Short-circuit protection	fuco 600\/		AC Current	^	10
Short-circuit protection					
	High fault		Short circuit current	LΛ	100
				kA ^	
			Fuse rating Fuse class	Α	150
	Standard fault		ruse ciass		J
	Statiuatu lault		Short circuit current	kA	5
				к <del>А</del> А	5 150
			Fuse rating Fuse class	A	RK5
Ambient conditions			ruse ciass		IVIV3
Ambient conditions					
Temperature	Operating temperature				
	Operating temperature			°C	50
			min	°C	-50



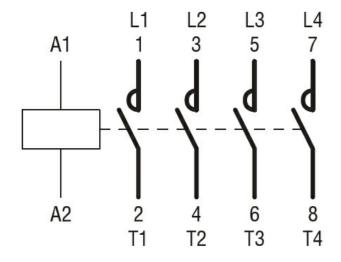
	max	°C	70
Storage temperature			
	min	°C	-60
	max	°C	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3

### 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



### BF40T4A024

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 70A, AC COIL 50/60HZ, 24VAC

CCC
cULus

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching