

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



Product type designation				
Product type designation   Series	Product designation			Power contactor
Contact characteristics         Nr.         4           Rated insulation voltage Ui IEC/EN         V         1000           Rated insulation voltage Uimp         kV         8           Operational frequency         min         Hz         25           max         Hz         400         Hz         400           IEC Conventional frequency         min         Hz         25         max         Hz         400         Hz         400         400         A 70         A 70         A 70         A 70         A 70         A 60         AC-1 (\$40°C)         A 60         AC-1 (\$40°C)         A 60         AC-1 (\$40°C)         A 50         AC-4 (400V)         A 24         A 40				
Rated insulation voltage Ui IEC/EN       V       1000         Rated impulse withstand voltage Uimp       kV       8         Operational frequency       min       Hz       25         IEC Conventional free air thermal current lth       A       70         Operational current le       AC-1 (≤40°C)       A       70         AC-1 (≤55°C)       A       60       AC-1 (≤70°C)       A       50         AC-3 (≤4400 ≤55°C)       A       40       AC-4 (400V)       A       40         AC-4 (400V)       A       40       AC-4 (400V)       A       40         AC-3 (≤440V ≤55°C)       A       40       AC-4 (400V)       A       40         AC-4 (400V)       A       40       AC-4 (400V)       A       40         AC-5 (≤40V ≤ A)       A       40       AC-4 (400V)       A       40         AC-6 (400V)       A       40       AC-4 (400V)       A       40         AC-7 (555°C)       A       A       40       AC-4 (400V)       A       40         AC-8 (400V)       A       A       40       AC-4 (400V)       A       40         AC-9 (400V)       A       AC-2 (400V)       A       AC-2 (400V) <td< td=""><td></td><td></td><td></td><td></td></td<>				
Rated impulse withstand voltage Ulimp	Number of poles		Nr.	4
Department   Hz   25 max   Hz   400      EC Conventional free air thermal current lth	Rated insulation voltage Ui IEC/EN		V	1000
Min	Rated impulse withstand voltage Uimp		kV	8
EC Conventional free air thermal current lth	Operational frequency			
EC Conventional free air thermal current Ith Operational current Ie   AC-1 (≤40°C)   A 70   AC-1 (≤55°C)   A 60   AC-1 (≤55°C)   A 60   AC-1 (≤55°C)   A 50   AC-3 (≤440∨≤55°C)   A 40   AC-3 (≤440∨≤55°C)   A 40   AC-4 (400∨)   A 24   AC-4 (400∨)   A 24   AC-4 (400∨)   A 40   AC-4 (400∨)   AC-4 (400∨)		min	Hz	25
Operational current le       AC-1 (≤40°C)       A       70         AC-1 (≤55°C)       A       60         AC-1 (≤70°C)       A       50         AC-3 (≤440V ≤55°C)       A       40         AC-4 (400V)       A       24         Rated operational current AC-3 (T≤55°C)         230V       A       40         400V       A       40         440V       A       40         400V       kW       40         400V       kW       40         400V       kW       40         400V       kW       40         48V       A       40         48V       A       35         75V       A       30         110V       A       48         48V       A       48         48V       A       48         48V       A       45         110V       A       42         220V       A       5 <t< td=""><td></td><td>max</td><td>Hz</td><td></td></t<>		max	Hz	
AC-1 (≤40°C)	IEC Conventional free air thermal current Ith		Α	70
AC-1 (≤55°C)	Operational current le			
AC-1 (≤70°C) A 50 AC-3 (≤440V ≤55°C) A 40 AC-4 (400V) A 24  Rated operational current AC-3 (T≤55°C)  230V A 40 400V A 40 415V A 40 440V A 40 500V A 33 690V A 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 A 40 48 48V A 35 75V A 45 110V A 8 220V A -  IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series  ≤24V A 48 48V A 48 48V A 48 110V A 42 220V A 5  IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series		,		
AC-3 (≤440V ≤55°C)   A   40     AC-4 (400V)   A   24     Rated operational current AC-3 (T≤55°C)     Rated operational current AC-3 (T≤55°C)     230V		,		
AC-4 (400V)			Α	50
Rated operational current AC-3 (T≤55°C)  230V A 40 400V A 40 415V A 40 440V A 40 500V A 33 690V A 32 1000V A 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 A 40 48V A 35 75V A 30 110V A 8 220V A -  IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series  ≤24V A 48 48V A 48 75V A 45 110V A 48 75V A 45 110V A 48 75V A 45 110V A 45 110V A 48 75V A 45 110V A 42 220V A 5		AC-3 (≤440V ≤55°C)	Α	40
230V		AC-4 (400V)	Α	24
400V	Rated operational current AC-3 (T≤55°C)			
415V		230V	Α	40
440V		400V	Α	40
Soov   A   33   690V   A   32   1000V   A   21		415V	Α	40
690V   A   32   1000V   A   21		440V	Α	40
Rated operational power AC-1 (T≤40°C)   230V   kW   26   400V   kW   46   500V   kW   58   690V   kW   79		500V	Α	33
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 A 40 48V A 35 75V A 30 110V A 8 220V A -  IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series  ≤24V A 48 48V A 48 48V A 48 110V A 48 48V A 45 110V A 42 220V A 5  IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series		690V	Α	32
		1000V	Α	21
A00V   kW   46   500V   kW   58   690V   kW   79	Rated operational power AC-1 (T≤40°C)			
S00V   kW   58   690V   kW   79		230V	kW	26
EC max current le in DC1 with L/R ≤ 1ms with 1 poles in series   ≤24V		400V	kW	46
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series    ≤24V		500V	kW	58
		690V	kW	79
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
T5V   A   30   110V   A   8   220V   A   -		≤24V	Α	40
110V   A   8   220V   A   -		48V	Α	35
EC max current le in DC1 with L/R $\leq$ 1ms with 2 poles in series   $\leq$ 24V   A   48   48V   A   48   48V   A   45   410V   A   42   420V   A   5		75V	Α	30
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series  ≤24V A 48 48V A 48 75V A 45 110V A 42 220V A 5  IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series  ≤24V A 48 48V A 48		110V	Α	8
		220V	Α	_
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
		≤24V	Α	48
		48V	Α	48
		75V	Α	45
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series  ≤24V A 48  48V A 48		110V	Α	42
≤24V A 48 48V A 48		220V	Α	5
48V A 48	IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
		≤24V	Α	48
75V A 48		48V	Α	48
		75V	Α	48





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

	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	220 1	- , ,		-
TEO THAN GUITOR TO IT DOO DOO WILL ETC = TOTAL WILL O POICE IT SELLES	≤24V	Α	40	
	48V	A	40	
	75V	A	38	
	110V	A	27	
	220V	A	32	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	220 V		32	
120 max current le in 200-200 with 2/10 13 with 4 poles in series	≤24V	Α		
	324 V 48 V	A	_	
	75V	A		
	110V	A	_	
	220V	A	<del>-</del> 40	
Short-time allowable current for 10s (IEC/EN60947-1)	220 V		400	
		Α	400	
Protection fuse	~C (IEC)	۸	100	
	gG (IEC)	A	100	
Making and ait (DMO calca)	aM (IEC)	A	50	
Making capacity (RMS value)		Α	400	
Breaking capacity at voltage	4.401.7	Δ.	202	
	440V	A	320	
	500V	A	265	
	690V	Α	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	Ibin	3.69	
Tightening torque for coil terminal				
	min	Nm	8.0	
	max	Nm	1	



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		min	Ibin	0.8
		max	Ibin	0.74
Max number of wires s	imultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		2
	Flexible w/o lug conductor section	THOX		
	Tiexible w/o lag conductor section	min	mm²	1.5
			mm²	35
	Florible alvelue conductor costion	max	1111111	30
	Flexible c/w lug conductor section	•.		4 =
		min	mm²	1.5
		max	mm²	35
	tion according to IEC/EN 60529			IP20 front
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
				Screw / DIN rail
Fixing				35mm
Weight			g	1240
Conductor section			9	1240
Conductor Section	ANA/O/I 'I I ( ( '			
	AWG/kcmil conductor section			
		max		2
Operations				
Mechanical life			cycles	15000000
Electrical life			cycles	1500000
Safety related data				
Performance level B10	od according to EN/ISO 13489-1			
	•	rated load	cycles	1500000
		mechanical load	cycles	15000000
Mirror contats according	ng to IEC/EN 609474-4-1		0,0.00	yes
EMC compatibility	19 10 12 0/214 000 4/ 4 4 1			_ ·
				yes
AC coil operating				0.4
Rated AC voltage at 60	)Hz		V	24
AC operating voltage				
	of 60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out			
	·	min	%Us	20
		max	%Us	55
AC average coil consu	mption at 20°C			<u> </u>
	of 60Hz coil powered at 60Hz			
	or our iz con powered at our iz	in-rush	VA	210
District the state of the state	40000 FOLL	holding	VA	15
Dissipation at holding	\$20°C 50Hz		W	5
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us co	ontrol			_
	:- A C			

in AC Closing NO



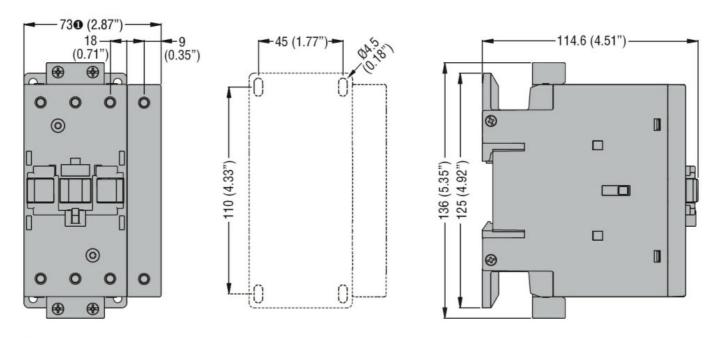


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		min	ms	12
		max	ms	28
	Opening NO			
		min	ms	8
		max	ms	22
	in DC			
	Closing NO			
		min	ms	40
		max	ms	85
	Opening NO			
		min	ms	20
		max	ms	55
UL technical data				
Full-load current (FLA	) for three-phase AC motor			
		at 480V	Α	40
		at 600V	Α	32
Yielded mechanical p	erformance			
	for single-phase AC motor			
		110/120V	HP	3
		230V	HP	7.5
	for three-phase AC motor			
		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 protectio	n fuse, 600V			
	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 temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protect	on			
Pollution degree				3
Dimensions				

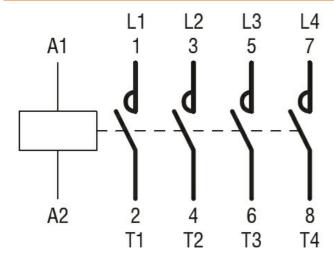
**ENERGY AND AUTOMATION** 

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



### 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

CCC

cULus

### ETIM classification

**ETIM 8.0** 

EC000066 -Power contactor, AC switching