



Product type designation	Product designation			Power contactor
Number of poles         Nr.         3           Rated insulation voltage Ui IEC/EN         V         690           Rated insulation voltage Uimp         kV         6           Operational frequency         min         Hz         25           max         Hz         400         400           IEC Conventional free air thermal current Ith         A         32           Operational current Ie         AC-1 (≤40°C)         A         32           AC-1 (≤55°C)         A         26         AC-1 (≤70°C)         A         23           AC-3 (≤400°V ≤55°C)         A         25         AC-4 (4000°V)         A         10           Rated operational power AC-3 (T≤55°C)         230V         kW         7         400V         kW         12           440V         kW         12.5         415V         kW         13.4         440V         kW         13.4           440V         kW         13.4         440V         kW         13.4         440V         kW         13.4           400V         kW         15         690V         kW         15         690V         kW         12         400V         kW         21         500V         kW         22	., .			BF25
Rated insulation voltage Ui IEC/EN         V         690           Rated impulse withstand voltage Uimp         kV         6           Operational frequency         min         Hz         25           max         Hz         400         400           IEC Conventional free air thermal current Ith         A         32           Operational current le         AC-1 (≤40°C)         A         23           AC-1 (≤57°C)         A         26         AC-1 (≤70°C)         A         23           AC-3 (≤440V ≤55°C)         A         25         AC-4 (400V)         A         10           Rated operational power AC-3 (T≤55°C)         230V         kW         7         400V         kW         12.5           415V         kW         12.5         415V         kW         13.4         500V         kW         13.4           690V         kW         15         690V         kW         15         690V         kW         11           Rated operational power AC-1 (T≤40°C)         230V         kW         12         400V         kW         12         400V         kW         12         400V         kW         12         400V         kW         23         400V         kW			.,	•
Rated impulse withstand voltage Uimp				
Time and Property Property of the property				
Min			kV	6
EC Conventional free air thermal current lth	Operational frequency			
EC Conventional free air thermal current lth				
Operational current le       AC-1 (≤40°C) A 22 AC-1 (≤55°C) A 26 AC-1 (≤55°C) A 26 AC-1 (≤55°C) A 23 AC-3 (≤440V ≤55°C) A 25 AC-4 (400V) A 10         Rated operational power AC-3 (T≤55°C)       230V kW 7 400V kW 12.5 415V kW 13.4 440V kW 13.4 440V kW 13.4 440V kW 13.4 500V kW 15 690V kW 15 690V kW 15 690V kW 21 500V kW 26 690V kW 36         IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series       ≤24V A 20 48V A 18 110V A 6 220V A -         IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series       ≤24V A 23 48V A 23 75V A 23 110V A 16 220V A 1         IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series       ≤24V A 23 48V A 23 75V A 23 48V A 23 75V A		max		
AC-1 (≤40°C) A 32 AC-1 (≤55°C) A 26 AC-1 (≤75°C) A 23 AC-3 (≤440V ≤55°C) A 25 AC-4 (400V) A 10  Rated operational power AC-3 (T≤55°C)  230V kW 7 400V kW 12.5 415V kW 13.4 440V kW 13.4 500V kW 15 690V kW 11  Rated operational power AC-1 (T≤40°C)  230V kW 12 400V kW 21 500V kW 21 500V kW 26 690V kW 36  IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series  ≤24V A 20 48V A 18 75V A 18 110V A 6 220V A -  IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series  ≤24V A 23 48V A 23 75V A 23 110V A 16 220V A 1  IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series  ≤24V A 23 48V A 23 75V A 16 220V A 1  IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			A	32
AC-1 (<555°C)	Operational current le			
AC-1 (≤70°C) A 23 AC-3 (≤440V ≤55°C) A 25 AC-4 (400V) A 10  Rated operational power AC-3 (T≤55°C)  230V kW 7 400V kW 12.5 415V kW 13.4 440V kW 13.4 500V kW 15 690V kW 15 690V kW 11  Rated operational power AC-1 (T≤40°C)  230V kW 26 690V kW 36  IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series  ≤24V A 20 48V A 18 75V A 18 110V A 6 220V A -  IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series  ≤24V A 23 48V A 23 75V A 23 110V A 16 220V A 1  IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series		•		
AC-3 (≤440V ≤55°C) A 25 AC-4 (400V) A 10  Rated operational power AC-3 (T≤55°C)  Rated operational power AC-3 (T≤55°C)  230V kW 7 400V kW 12.5 415V kW 13.4 440V kW 13.4 500V kW 11  Rated operational power AC-1 (T≤40°C)  230V kW 11  Rated operational power AC-1 (T≤40°C)  230V kW 12 400V kW 26 690V kW 36  IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series  ≤24V A 20 48V A 18 75V A 18 110V A 6 220V A -  IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series  ≤24V A 23 48V A 23 75V A 23 110V A 16 220V A 1  IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series  ≤24V A 23 48V A 23 75V A 23 110V A 16 220V A 1		•		
AC-4 (400V) A 10  Rated operational power AC-3 (T≤55°C)  230V kW 7 400V kW 12.5 415V kW 13.4 440V kW 13.4 500V kW 15 690V kW 11  Rated operational power AC-1 (T≤40°C)  230V kW 12 400V kW 21 500V kW 21 500V kW 21 500V kW 26 690V kW 36  IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series  ≤24V A 20 48V A 18 75V A 18 110V A 6 220V A -  IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series  ≤24V A 23 48V A 23 75V A 16 220V A 1  IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series				
Rated operational power AC-3 (T≤55°C)  230V kW 7 400V kW 12.5 415V kW 13.4 440V kW 13.4 500V kW 15 690V kW 15 690V kW 11  Rated operational power AC-1 (T≤40°C)  230V kW 21 500V kW 21 500V kW 21 500V kW 21 500V kW 36  IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series  \$\frac{224V A 20}{48V A 18} \frac{23}{48V A 23} \frac{23}{110V A 16} \frac{220V A 1}{220V A 1}  IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series  \$\frac{24V A 23}{48V A 23} \frac{23}{110V A 16} \frac{220V A 1}{220V A 1}  IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series  \$\frac{24V A 23}{48V A 23} \frac{23}{110V A 16} \frac{220V A 1}{220V A 1}  IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series		,		
230V   kW   7   400V   kW   12.5   415V   kW   13.4   440V   kW   13.4   440V   kW   13.4   500V   kW   15   690V   kW   11   11   11   12   12   13   14   14   15   14   15   15   15   15		AC-4 (400V)	A	10
400V   kW   12.5     415V   kW   13.4     440V   kW   13.4     440V   kW   13.4     500V   kW   15     690V   kW   11     Rated operational power AC-1 (T≤40°C)     230V   kW   12     400V   kW   21     500V   kW   26     690V   kW   36     IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series     ≤24V   A   20     48V   A   18     75V   A   18     110V   A   6     220V   A   -     IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series     ≤24V   A   23     48V   A   23     75V   A   23     110V   A   16     220V   A   1     IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series     ≤24V   A   23     48V   A   23     75V   A   23     48V   A   23     75V   A   23     48V   A   23     75V   A   23	Rated operational power AC-3 (T≤55°C)			
415V kW 13.4   440V kW 13.4   500V kW 15   500V kW 15   690V kW 11   1   1   1   1   1   1   1   1   1				
A40V   kW   13.4     500V   kW   15     690V   kW   11     Rated operational power AC-1 (T≤40°C)     230V   kW   12     400V   kW   21     500V   kW   26     690V   kW   36     IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series				
Soov   kW   15   690V   kW   11				
Rated operational power AC-1 (T≤40°C)   230V   kW   12   400V   kW   21   500V   kW   26   690V   kW   36				
Rated operational power AC-1 (T≤40°C)  230V kW 12 400V kW 21 500V kW 26 690V kW 36  IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series  ≤24V A 20 48V A 18 75V A 18 110V A 6 220V A -  IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series  ≤24V A 23 48V A 23 75V A 23 110V A 16 220V A 1  IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series  ≤24V A 23 75V A 23 110V A 16 220V A 1				
230V   kW   12   400V   kW   21   500V   kW   26   690V   kW   36		690V	kW	
400V   kW   21   500V   kW   26   690V   kW   36     IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series   ≤24V   A   20   48V   A   18   75V   A   18   110V   A   6   220V   A   −     IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series   ≤24V   A   23   48V   A   23   75V   A   23   110V   A   16   220V   A   1     IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series   ≤24V   A   23   48V   A   23   75V   A   23	Rated operational power AC-1 (T≤40°C)			
500V   kW   26   690V   kW   36				
EC max current le in DC1 with L/R ≤ 1ms with 1 poles in series				
Section   Sec				
		690V	kVV	36
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
T5V   A   18   110V   A   6   220V   A   -				
110V   A   6   220V   A   −				
EC max current le in DC1 with L/R ≤ 1ms with 2 poles in series   ≤24V				
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series  ≤24V A 23 48V A 23 75V A 23 110V A 16 220V A 1  IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series  ≤24V A 23 48V A 23 48V A 23 75V A 23				6
	150	220V	A	
48V A 23 75V A 23 110V A 16 220V A 1  IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series  ≤24V A 23 48V A 23 75V A 23 75V A 23	IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series		_	
220V A 1  IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series  ≤24V A 23 48V A 23 75V A 23				
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series  ≤24V A 23  48V A 23  75V A 23				
≤24V A 23 48V A 23 75V A 23	150	220V	Α	
48V A 23 75V A 23	IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series		_	
75V A 23				
110V A 18				
		110V	Α	18



	220V	Α	12
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	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
The max carrent to in Boo Boo with Ent = Tome with 1 poles in conce	≤24V	Α	15
	48V	A	13
	75V	A	13
	110V	A	2
150	220V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	.0.0.4		4.0
	≤24V	Α	18
	48V	Α	18
	75V	Α	16
	110V	Α	10
	220V	Α	2
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	≤24V	Α	22
	48V	Α	22
	75V	Α	18
	110V	Α	15
	220V	Α	8
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
The max surround in 200 200 mai 2/10 - 10 me mai 1 perse in comes	≤24V	Α	_
	48V	A	_
	75V	A	_
	110V	A	_
	220V		_
Chart time allowable assurant for 40a (IEC/ENCO047.4)	220 V	A	200
Short-time allowable current for 10s (IEC/EN60947-1)		Α	200
Protection fuse	0 (150)		
	gG (IEC)	Α	50
	aM (IEC)	A	25
Making capacity (RMS value)		Α	250
Breaking capacity at voltage			
	440V	Α	200
	500V	Α	184
	690V	Α	102
Resistance per pole (average value)		mΩ	2.5
Power dissipation per pole (average value)			
· · · · · · · · · · · · · · · · · · ·	Ith	W	2.6
	AC-3	W	1.6
Tightening torque for terminals			
G G I I I I I I I I I I I I I I I I I I	min	Nm	1.5
	max	Nm	1.8
	min	Ibin	1.1
		Ibin	1.5
Tightoning torque for coil terminal	max	וווטו	1.0
Tightening torque for coil terminal	t. ·	N I	0.0
	min	Nm	0.8
	max	Nm	1
	min	lbin	0.8



	<del> </del>	max	Ibin	0.74
	simultaneously connectable		Nr.	2
Conductor section	AWG/Kcmil			
	AWG/KCIIII	max		10
	Flexible w/o lug conductor section	IIIax		10
	r lexible w/o lug corrudctor section	min	mm²	1
		max	mm²	6
	Flexible c/w lug conductor section			
	3	min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor section			
		min	mm²	1
		max	mm²	4
Power terminal protec	ction according to IEC/EN 60529			IP20 when
	gg			properly wired
Mechanical features				
Operating position		normal		Vertical plan
		allowable		Vertical plan ±30°
		allowable		Screw / DIN rail
Fixing				35mm
Weight			g	500
Auxiliary contact chara	acteristics		<u> </u>	
Thermal current Ith			Α	10
IEC/EN 60947-5-1 des	signation			A600 - P600
Operating current AC1	15			
		230V	Α	3
		400V	Α	1.9
		500V	A	1.4
Operating current DC1	12		_	
		110V	Α	5.7
Operating current DC1	13	<b>.</b>		
		24V	A	5.7
		48V	A	2.9
		60V 110V	A	2.3 1.25
		110V 125V	A A	1.25
		220V	A	0.55
		600V	A	0.2
Operations		2007	, , , , , , , , , , , , , , , , , , ,	J
Mechanical life			cycles	20000000
Wiconamour inc				
			cycles	1200000
Electrical life				1200000
Electrical life Safety related data	0d according to EN/ISO 13489-1			1200000
Electrical life Safety related data	0d according to EN/ISO 13489-1	rated load		1200000
Electrical life Safety related data		rated load echanical load	cycles	
Electrical life Safety related data Performance level B1			cycles	1200000
Electrical life Safety related data Performance level B10 EMC compatibility DC coil operating	me		cycles cycles cycles	1200000 20000000 yes
Electrical life Safety related data Performance level B10 EMC compatibility DC coil operating DC rated control voltage	me		cycles	1200000 20000000
Electrical life Safety related data Performance level B10 EMC compatibility DC coil operating	ge		cycles cycles cycles	1200000 20000000 yes
Electrical life Safety related data Performance level B10 EMC compatibility DC coil operating DC rated control voltage	me		cycles cycles cycles	1200000 20000000 yes

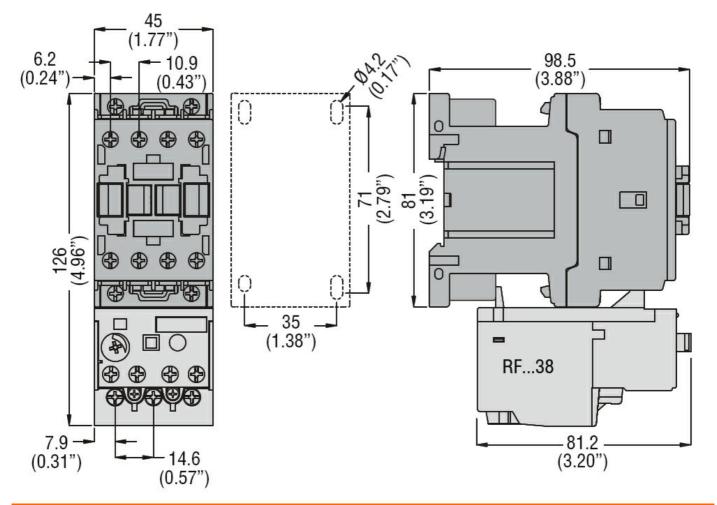




				0/11-	405
	duan and		max	%Us	125
	drop-out		min	0/ I Io	10
			min	%Us %Us	10 40
Average coil consumpt	tion <20°C		max	7005	40
Average con consump	11011 <b>2</b> 20 C		in-rush	W	5.4
			holding	W	5.4
Max cycles frequency			rioidirig	VV	5.4
Mechanical operation				cycles/h	3600
Operating times				0,0100/11	0000
Average time for Us co	ontrol				
The stage and the stage at	in AC				
		Closing NO			
		3	min	ms	8
			max	ms	24
		Opening NO			
			min	ms	10
			max	ms	20
		Closing NC			
			min	ms	14
			max	ms	28
		Opening NC			
			min	ms	7
			max	ms	18
	in DC				
		Closing NO			
			min	ms	54
		O a sais a NO	max	ms	66
		Opening NO			4.4
			min	ms	14
UL technical data			max	ms	17
Rated operational volta	age AC (III.)			V	600
Full-load current (FLA)	• , ,	\C motor		V	000
i uli-load culterii (i LA)	ioi iiiiee-piiase r	AC IIIoloi	at 480V	Α	21
			at 600V	A	17
Yielded mechanical pe	rformance		ut 000 V	/ \	• •
. Joiada modifical pe	for single-phase	e AC motor			
	.o. o.i.gio pilase		110/120V	HP	2
			230V	HP	3
	for three-phase	AC motor			
	,		200/208V	HP	7.5
			220/230V	HP	7.5
			460/480V	HP	15
			575/600V	HP	15
General USE					
	Contactor				
			AC current	Α	32
	Auxiliary contact	ts			
			AC voltage	V	600
			AC current	Α	10
			DC voltage	V	250
			DC current	Α	1
Short-circuit protection	fuse, 600V				



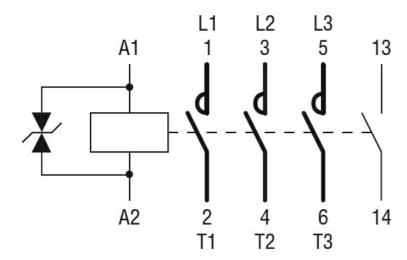
High fa	ult			
		Short circuit current	kA	100
		Fuse rating	Α	60
		Fuse class		J
Standa	rd fault			
		Short circuit current	kA	5
		Fuse rating	Α	100
Contact rating of auxiliary conta	cts according to UL			A600 - P600
Ambient conditions				
Temperature				
Operati	ng temperature			
		min	°C	-50
		max	°C	70
Storage	e temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protection				
Pollution degree				3
Dimensions				



Wiring diagrams

**ENERGY AND AUTOMATION** 

### THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 25A, DC COIL, 24VDC, 1NO AUXILIARY CONTACT



### 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

EAC

#### ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching