



Product designation	Power contactor		
Product type designation	BF25		
Contact characteristics			
Number of poles	nr.	3	
Rated insulation voltage U_i	V	690	
Rated impulse withstand voltage U_{imp}	kV	6	
Operating frequency	Operational frequency min	Hz	25
	Operational frequency max	Hz	400
Conventional free air thermal current I_{th}	A	32	
Operating current	Operational current AC1 ($\leq 40^\circ\text{C}$)	A	32
	Operational current AC3 ($\leq 440\text{V} \leq 55^\circ\text{C}$)	A	25
	Operational current AC4 (400V)	A	10
Rated operational power AC1 ($T \leq 40^\circ\text{C}$)	230V	kW	12
	400V	kW	21
	500V	kW	26
	690V	kW	36
Rated operational power AC3 ($T \leq 55^\circ\text{C}$)	230V	kW	7
	400V	kW	12.5
	415V	kW	13.4
	440V	kW	13.4
	500V	kW	15
	690V	kW	11
Short-time allowable current for 10s (IEC/EN60947-1)	A	200	
Protection fuse	gG (IEC)	A	50
	aM (IEC)	A	25
Making capacity (RMS value)	A	250	
Breaking capacity at voltage	Breaking capacity 440V	A	200
	Breaking capacity 500V	A	184
	Breaking capacity 690V	A	102
Resistance per pole (average value)	m Ω	2.5	
Power dissipation per pole (average value)	Power dissipation pole (average value) I_{th}	W	2.6
	AC3	W	1.6
Tightening torque for terminals	min	Nm	1.5
	max	Nm	1.8
	min	lbft	1.1
	max	lbft	1.5
Tightening torque for coil terminal			

	min	Nm	0.8
	max	Nm	1
	min	lbft	0.8
	max	lbft	0.74
max number of wires simultaneously connectable		nr.	2
Conductor section	AWG		
	min		16
	max		10
Flexible w/o lug conductor section	min	mm ²	1
	max	mm ²	6
Flexible c/w lug conductor section	min	mm ²	1
	max	mm ²	4
Flexible with insulated spade lug conductor section	min	mm ²	1
	max	mm ²	4
Power terminal protection according to IEC/EN 60529	IP20 when wired		
Auxiliary contact characteristics			
Type of contact	1 NC		
Thermal current I _{th}	A	10	
IEC/EN 60947-5-1 designation	A600 - P600		
Operational current AC1 (≤40°C)	A	32	
Operating current AC15	230V	A	3
	400V	A	1.9
	500V	A	1.4
Operating current DC12	110V	A	5.7
Operating current DC13	24V	A	5.7
	48V	A	2.9
	60V	A	2.3
	110V	A	Screw / DIN rail 35mm
	125V	A	0.6
	220V	A	0.2
	600V	A	1.2
Ambient conditions			
Temperature	Operating temperature		
	min	°C	-50
	max	°C	70
	Storage temperature		
	min	°C	-60
	max	°C	80
Max altitude			m 3000
Operating position	normal allowable	Vertical plan ±30°	
Mounting	Screw / DIN rail 35mm		
Weight			g 0.5

Operations

Mechanical life	Cycles	20000000
Electrical life	Cycles	1200000

Safety related data

Performance level B10d according to EN/ISO 13489-1

	rated load	Cicli	1200000
	mechanical load	Cicli	20000000
Mirror contats according to IEC/EN 609474-4-1			yes
EMC compatibility			yes

DC coil operating

DC rated control voltage	min	V	6
DC operating voltage			
pick-up	min	%Us	0.7
	max	%Us	1.25
drop-out	min	%Us	0.1
	max	%Us	0.40

Average coil consuption $\leq 20^{\circ}\text{C}$

in-rush	W	5.4
holding	W	5.4

Max cycles frequency

Mechanical operations	Cycles/h	3600
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Operating times

Average time for Us control

in DC

Closing NO	min	ms	54
	max	ms	66
Opening NO	min	ms	14
	max	ms	17
Closing NC	min	ms	24
	max	ms	30
Opening NC	min	ms	47
	max	ms	57

UL technical data

Full-load current (FLA) for three-phase AC motor

at 480V	A	21
at 600V	A	17

Yielded mechanical performance

for single-phase AC motor

at 110/120V	hp	2
at 230V	hp	3

for three-phase AC motor

at 200/208V	hp	7.5
at 220/230V	hp	7.5
at 460/480V	hp	15
at 575/600V	hp	15

Contact rating of auxiliary contacts according to UL

A600 - P600

General USE

Contactor

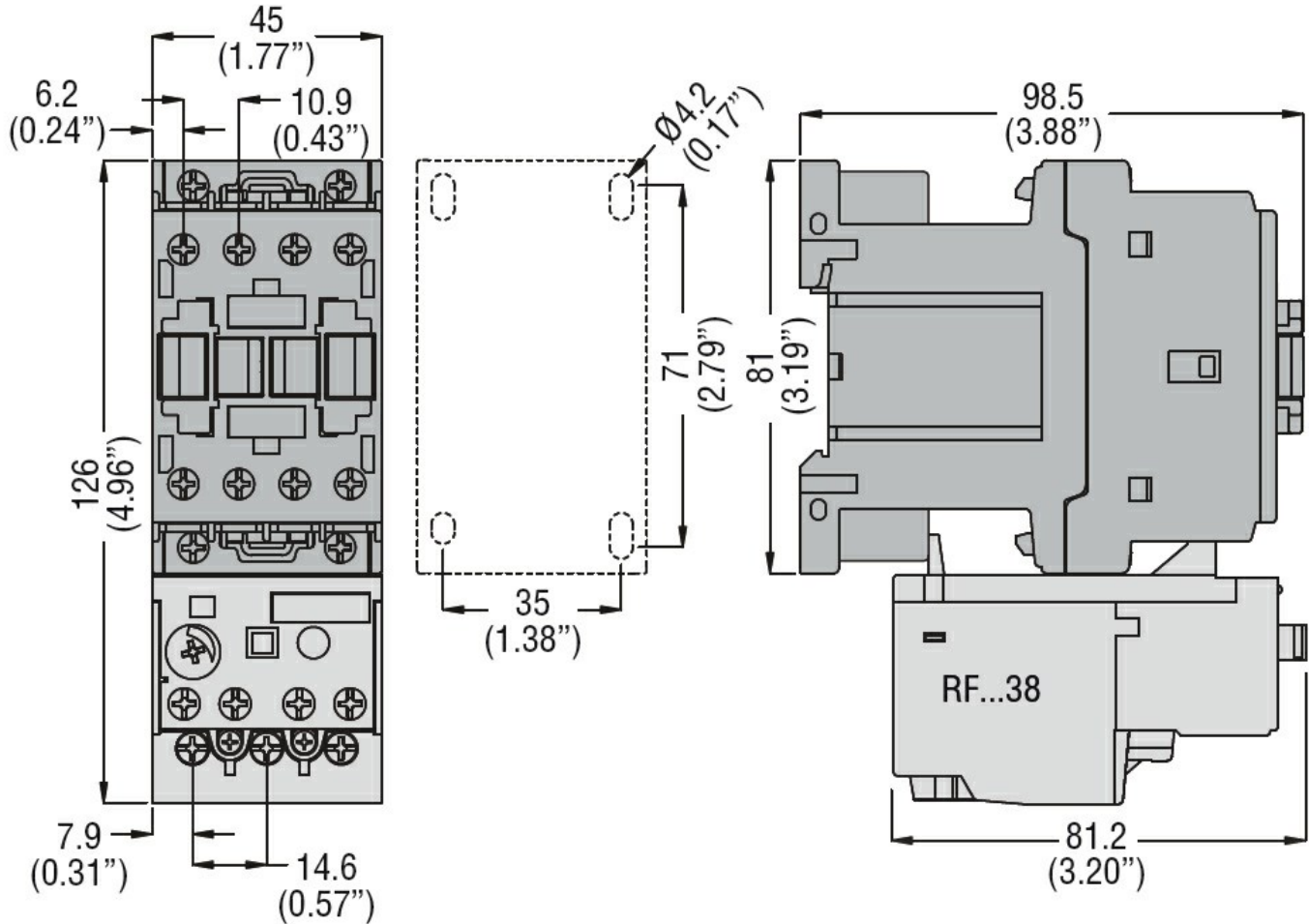
AC current A 32

Other features

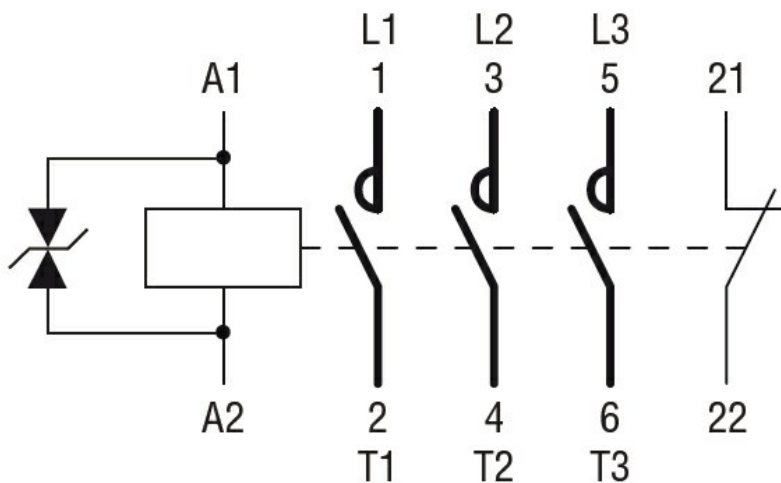
Pollution degree

3

Dimensions



Wiring diagrams



Certifications and compliance

Certifications

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN 60947-1

IEC/EN 60947-4-1

UL 60947-1

UL 60947-4-1

Compliance

CCC

cULus

EAC

ETIM 6 classification

EC000066 - Power contactor, AC switching