





Product designation Power contactor Product type designation BF25 Contact characteristics Nr. 3 Number of poles Rated insulation voltage Ui IEC/EN ٧ 690 k۷ Rated impulse withstand voltage Uimp 6 Operational frequency Нъ 25 min Hz 400 max IEC Conventional free air thermal current Ith 32 Α Operational current le AC-1 (≤40°C) Α 32 AC-1 (≤55°C) Α 26 AC-1 (≤70°C) Α 23 AC-3 (≤440V ≤55°C) Α 25 AC-4 (400V) 10 Rated operational power AC-3 (T≤55°C) 7 230V kW 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 26 690V kW 36 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series ≤24V Α 20 48V Α 18 75V Α 18 110V Α 6 220V Α IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V Α 23 48V Α 23 75V 23 Α 110V Α 16 220V Α 1 IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V 23 Α 23 48V Α 75V Α 23 110V 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 carron 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 carrent to in 200 200 mai 2/(= 10me mai 1 perso in come	≤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





	max	Ibin	0.74
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil			
	max		10
Flexible w/o lug conductor section			
	min	mm²	1
	max	mm²	6
Flexible c/w lug conductor section			
	min	mm²	1
	max	mm²	4
Flexible with insulated spade lug conductor section			
	min	mm²	1
	max	mm²	4
Power terminal protection according to IEC/EN 60529			IP20 when
			properly wired
Mechanical features			
Operating position			
	normal		Vertical plan
	allowable		±30°
Fixing			Screw / DIN rail
			35mm
Weight		g	356
Auxiliary contact characteristics			
Thermal current Ith		Α	10
IEC/EN 60947-5-1 designation			A600 - P600
Operating current AC15	0001		•
	230V	A	3
	400V	A	1.9
	500V	A	1.4
Operating current DC12	440)/		
	110V	A	5.7
Operating current DC13			
	24V	Α	5.7
	48V	Α	2.9
	60V	A	2.3
	110V	A	1.25
	125V	A	1.1
	220V	A	0.55
Operations	600V	Α	0.2
Operations Machanical life		a e. l = =	20000000
Mechanical life		cycles	20000000
Electrical life		cycles	1200000
Safety related data			
Performance level B10d according to EN/ISO 13489-1			1000000
m	rated load echanical load	cycles cycles	1200000 20000000
EMC compatibility			yes
AC coil operating			
Rated AC voltage at 60Hz		V	120
AC operating voltage			

of 60Hz coil powered at 60Hz pick-up



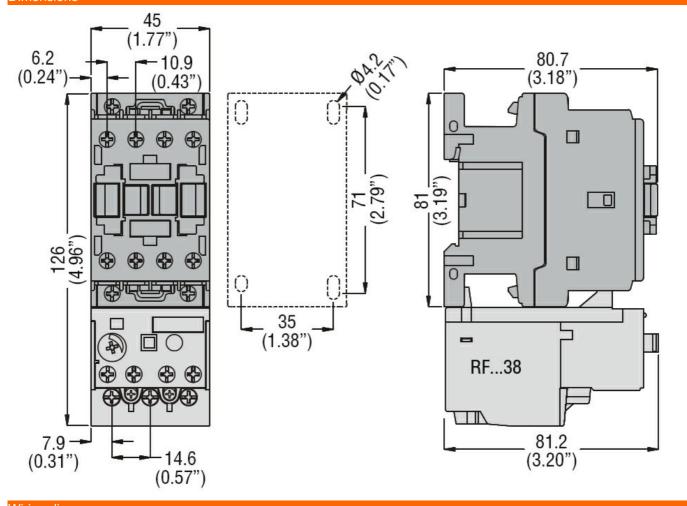


		min	%Us	80
		max	%Us	110
	drop-out		,,,,,	
	arop out	min	%Us	20
		max	%Us	55
AC average coil consu	umption at 20°C	IIIdX	7003	
Ao average con consu	of 60Hz coil powered at 60Hz			
	or our iz con powered at our iz	in-rush	VA	75
		holding	VA	9
Dissipation at holding	<20°C 50Hz	riolaling	W	2.5
Max cycles frequency	320 G 30112		VV	2.5
Mechanical operation			cycles/h	3600
Operating times			Cyclc3/11	3000
Average time for Us co	ontrol			
Average time for 03 oc	in AC			
	Closing NO			
	Closing NO	min	ms	8
		max	ms	24
	Opening NO	IIIdX	1113	47
	Opening NO	min	ms	10
		max	ms	20
	Closing NC	Παλ	1115	20
	Closing NC	min	me	14
			ms	28
	Opening NC	max	ms	20
	Opening NC	min	mo	7
		min	ms	<i>1</i> 18
UL technical data		max	ms	10
Rated operational volta			V	600
	for three-phase AC motor		V	000
i dii-load current (i LA)	Tor three-phase AC motor	at 480V	Α	21
		at 600V	A	17
Yielded mechanical pe	arformana	at 000 v		
rielded mechanical pe				
	for single-phase AC motor	440/420\/	UD	2
		110/120V	HP	2
	for three phase AC mater	230V	HP	3
	for three-phase AC motor	000/0001	LID	7 5
		200/208V	HP	7.5
		220/230V	HP	7.5
		460/480V	HP	15
Conoral LICE		575/600V	HP	15
General USE	Ocata de a			
	Contactor	40		00
	A Was said a	AC current	A	32
	Auxiliary contacts	A 0 1:		000
		AC voltage	V	600
		AC current	A	10
		DC voltage	V	250
		DC current	Α	
Short-circuit protection				
	High fault			
		Short circuit current	kA	100
		Fuse rating	Α	60
		Fuse rating Fuse class	Α	60 J





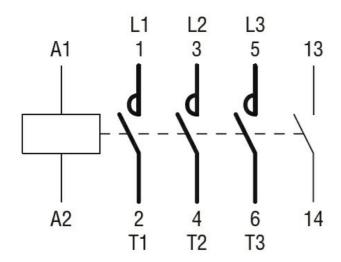
-	Standard fault			
		Short circuit current	kA	5
		Fuse rating	Α	100
Contact rating of auxiliar	y contacts according to UL			A600 - P600
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
-	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protection				
Pollution degree				3
Dimensions				



Wiring diagrams

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 25A, AC COIL 60HZ, 120VAC, 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