



Product designation			Power contactor
Product type designation Contact characteristics			BF25
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency		ΚV	0
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	Пах	A	32
Operational current le		7.	02
	AC-1 (≤40°C)	А	32
	AC-1 (≤55°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	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 $L/R \le 1$ ms with 1 poles in series			
	≤24V	А	20
	48V	А	18
	75V	А	18
	110V	А	6
	220V	Α	_
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	≤24V	А	23
	48V	А	23
	75V	А	23
	110V	А	16
	220V	A	1
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			
	≤24V	А	23
	48V	A	23
	75V	A	23
	110V	А	18



	220V	А	12
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series			
	≤24V	А	_
	48V	A	_
	75V	А	_
	110V	А	_
	220V	А	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	А	15
	48V	А	13
	75V	А	13
	110V	А	2
	220V	А	-
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	А	18
	48V	А	18
	75V	А	16
	110V	А	10
	220V	А	2
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	≤24V	А	22
	48V	А	22
	75V	А	18
	110V	А	15
	220V	A	8
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	А	_
	48V	А	_
	75V	А	_
	110V	А	_
	220V	А	_
Short-time allowable current for 10s (IEC/EN60947-1)		А	200
Protection fuse			
	gG (IEC)	А	50
	aM (IEC)	А	25
Making capacity (RMS value)	~ /	А	250
Breaking capacity at voltage			
- · ·	440V	А	200
	500V	A	184
	690V	A	102
Resistance per pole (average value)		mΩ	2.5
Power dissipation per pole (average value)			
· · · · · · · · · · · · · · · · · · ·	lth	W	2.6
	AC-3	W	1.6
Tightening torque for terminals			
	min	Nm	1.5
	max	Nm	1.8
	min	Ibin	1.1
	max	Ibin	1.5
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	0.8



		max	lbin	0.74
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil	2001		10
	Flovible w/e lug conductor costion	max		10
	Flexible w/o lug conductor section	min	mm²	1
		max	mm²	6
	Flexible c/w lug conductor section	IIIdA	111111	0
	Flexible C/w lug conductor section	min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor section	IIIdA	111111	4
	Flexible with insulated space by conductor section	min	mm²	1
			mm²	4
		max	111111	IP20 when
Power terminal protect	ction according to IEC/EN 60529			properly wired
Mechanical features				property wred
Operating position				
		normal		Vertical plan
		allowable		Vertical plan ±30°
		allowable		Screw / DIN rai
Fixing				35mm
Weight			g	502
Conductor section			9	002
	AWG/kcmil conductor section			
	Avid/Remii conductor section			
		may		10
Auxiliary contact char	actaristics	max		10
Auxiliary contact char	acteristics	max	Δ	
Thermal current Ith		max	A	10
Thermal current Ith IEC/EN 60947-5-1 de	esignation	max	A	
Thermal current Ith	esignation			10 A600 - P600
Thermal current Ith IEC/EN 60947-5-1 de	esignation	230V	A	10 A600 - P600 3
Thermal current Ith IEC/EN 60947-5-1 de	esignation	230V 400V	A A	10 A600 - P600 3 1.9
Thermal current lth IEC/EN 60947-5-1 de Operating current AC	esignation 15	230V	A	10 A600 - P600 3
Thermal current Ith IEC/EN 60947-5-1 de	esignation 15	230V 400V 500V	A A A	10 A600 - P600 3 1.9 1.4
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 15 12	230V 400V	A A	10 A600 - P600 3 1.9
Thermal current lth IEC/EN 60947-5-1 de Operating current AC	esignation 15 12	230V 400V 500V 110V	A A A A	10 A600 - P600 3 1.9 1.4 5.7
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 15 12	230V 400V 500V 110V 24V	A A A A	10 A600 - P600 3 1.9 1.4 5.7 5.7
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 15 12	230V 400V 500V 110V 24V 48V	A A A A A	10 A600 - P600 3 1.9 1.4 5.7 5.7 2.9
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 15 12	230V 400V 500V 110V 24V 48V 60V	A A A A A A A	10 A600 - P600 3 1.9 1.4 5.7 5.7 5.7 2.9 2.3
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 15 12	230V 400V 500V 110V 24V 48V 60V 110V	A A A A A A A A A	10 A600 - P600 3 1.9 1.4 5.7 5.7 5.7 2.9 2.3 1.25
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 15 12	230V 400V 500V 110V 24V 48V 60V 110V 125V	A A A A A A A A A A	10 A600 - P600 3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 15 12	230V 400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A A	10 A600 - P600 3 1.9 1.4 5.7 5.7 5.7 2.9 2.3 1.25 1.1 0.55
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC	esignation 15 12	230V 400V 500V 110V 24V 48V 60V 110V 125V	A A A A A A A A A A	10 A600 - P600 3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC	esignation 15 12	230V 400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A A A	10 A600 - P600 3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operations Mechanical life	esignation 15 12	230V 400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A A A Cycles	10 A600 - P600 3 1.9 1.4 5.7 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operations Mechanical life Electrical life	esignation 15 12	230V 400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A A A	10 A600 - P600 3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	esignation 15 12 13	230V 400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A A A Cycles	10 A600 - P600 3 1.9 1.4 5.7 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	esignation 15 12	230V 400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A A A A A Cycles cycles	10 A600 - P600 3 1.9 1.4 5.7 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000 1200000
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	esignation 15 12 13 10d according to EN/ISO 13489-1	230V 400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A A A A Cycles cycles	10 A600 - P600 3 1.9 1.4 5.7 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000 1200000 1200000
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B1	esignation 15 12 13 10d according to EN/ISO 13489-1	230V 400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A A A A A Cycles cycles	10 A600 - P600 3 1.9 1.4 5.7 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000 1200000
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B1	esignation 15 12 13 10d according to EN/ISO 13489-1	230V 400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A A A A A Cycles cycles	10 A600 - P600 3 1.9 1.4 5.7 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000 1200000 1200000

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DC roted control volto				V	24
DC rated control volta DC operating voltage	-			V	24
DC operating voltage	pick-up				
	ρισκ-αρ		min	%Us	80
			max	%Us	110
	drop-out		Пах	/000	
			min	%Us	10
			max	%Us	40
Average coil consum	ption ≤20°C				
-			in-rush	W	2.4
			holding	W	2.4
Max cycles frequency	/				
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us o					
	in AC				
		Closing NO			-
			min	ms	8
			max	ms	24
		Opening NO	*		10
			min	ms	10 20
		Closing NC	max	ms	20
			min	ms	14
			max	ms	28
		Opening NC	тах	mo	20
		oponnigitto	min	ms	7
			max	ms	18
	in DC				
		Closing NO			
		-	min	ms	75
			max	ms	91
		Opening NO			
			min	ms	15
			max	ms	19
		Closing NC			
			min	ms	24
		Opening NO	max	ms	30
		Opening NC	min	me	67
			max	ms ms	81
UL technical data				1113	
Full-load current (FLA	) for three-phase AC	C motor			
	,		at 480V	А	21
			at 600V	A	17
Yielded mechanical p	erformance				
·	for single-phase A	AC motor			
			110/120V	HP	2
			230V	HP	3
	for three-phase A	C motor			
			200/208V	HP	7.5
			220/230V	HP	7.5
			460/480V	HP	15
			575/600V	HP	15

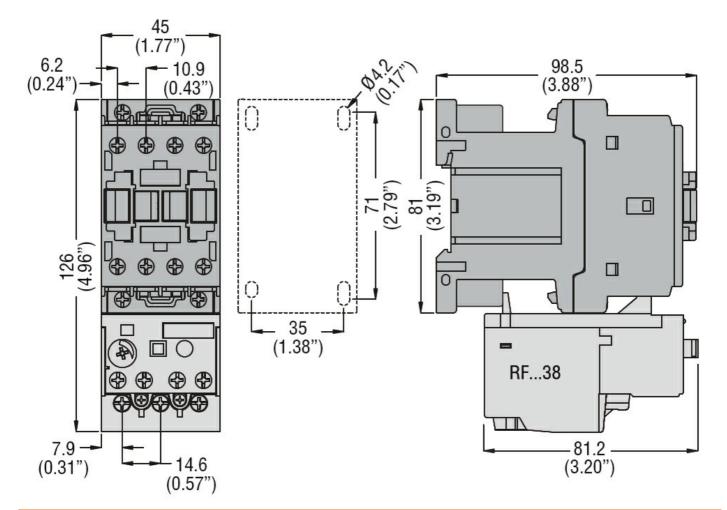


General USE			
Contactor			
	AC current	А	32
Auxiliary contacts			
	AC voltage	V	600
	AC current	А	10
	DC voltage	V	250
	DC current	А	1
Short-circuit protection fuse, 600V			
High fault			
	Short circuit current	kA	100
	Fuse rating	А	60
	Fuse class		J
Standard fault			
	Short circuit current	kA	5
	Fuse rating	Α	100
Contact rating of auxiliary 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			

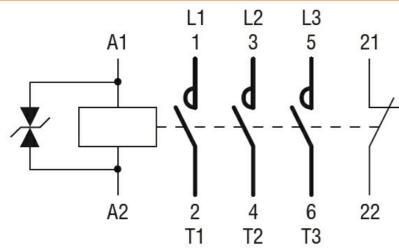
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THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 25A, DC COIL LOW CONSUMPTION, 24VDC, 1NC AUXILIARY CONTACT



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
Cortificatos	

Certificates



	CCC	
	cULus	
	EAC	
ETIM classification		

ETIM 8.0

EC000066 -Power contactor, AC switching