



Product designation			Power contactor
Product type designation			BF25
Contact characteristics			
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		Α	32
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)	Α	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
9	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	A	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
	≤24V	Α	23
	48V	Α	23
	75V	Α	23
	110V	Α	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	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			
	≤24V	Α	15
	48V	Α	13
	75V	Α	13
	110V	Α	2
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
·	≤24V	Α	18
	48V	Α	18
	75V	Α	16
	110V	Α	10
	220V	A	2
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			_
	≤24V	Α	22
	48V	Α	22
	75V	A	18
	110V	A	15
	220V	Α	8
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	220 V		
120 max out one to in 200 200 with 2/10 = 10mb with 4 poles in series	≤24V	Α	_
	48V	A	_
	75V	A	_
	110V	A	_
	220V	A	_
Short-time allowable current for 10s (IEC/EN60947-1)	220 V		200
Protection fuse			200
1 100000011 1000	gG (IEC)	Α	50
	aM (IEC)	A	25
Making capacity (RMS value)	aw (ILO)	A	250
Breaking capacity at voltage			200
	440V	Α	200
	500V	A	184
	690V	Α	102
Resistance per pole (average value)	300 v	mΩ	2.5
Power dissipation per pole (average value)		11122	2.0
1 oner alsoipation per pole (average value)	Ith	W	2.6
	AC-3	W	1.6
Tightening torque for terminals	70-3	V V	1.0
rightening torque for terminals	min	Nm	1.5
	max	Nm	1.8
	min	lbin	1.0
		lbin	1.5
Tightening torque for coil terminal	max	וווטו	1.0
rightening torque for contentinal	min	Nlm	Λ 8
	min	Nm Nm	0.8
	max	Nm Ibin	1
	min	lbin	0.8



		max	Ibin	0.74
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		10
	Flexible w/o lug conductor section		•	
		min	mm²	1
	E. 21. / 1	max	mm²	6
	Flexible c/w lug conductor section		2	4
		min	mm²	1
	Florible with inculated and delug conductor costic	max	mm²	4
	Flexible with insulated spade lug conductor section		mm²	1
		min	mm²	4
		max	111111	IP20 when
Power terminal prote	ction according to IEC/EN 60529			properly wired
Mechanical features				propony milou
Operating position				
- Frank G Frank		normal		Vertical plan
		allowable		±30°
F				Screw / DIN rail
Fixing				35mm
Weight			g	362
Auxiliary contact char	acteristics			
Thermal current Ith			Α	10
IEC/EN 60947-5-1 de	esignation			A600 - P600
Operating current AC	215			
		230V	Α	3
		400V	Α	1.9
		500V	Α	1.4
Operating current DC	212			
		110V	Α	5.7
Operating current DC	213			
		24V	Α	5.7
		48V	Α	2.9
		60V	Α	2.3
		110V	Α	1.25
		125V	Α	1.1
		220V	Α	0.55
		600V	Α	0.2
Operations				
Mechanical life			cycles	20000000
Electrical life			cycles	1200000
Safety related data	40.1			
Performance level B	10d according to EN/ISO 13489-1		_	
		rated load	cycles	1200000
		mechanical load	cycles	20000000
EMC compatibility				yes
AC coil operating	- 0/001			10
Rated AC voltage at			V	48
AC operating voltage				

of 50/60Hz coil powered at 50Hz

pick-up



		min	%Us	80
		max	%Us	110
	drop-out	IIIdx	/003	110
	drop-out	min	0/116	20
		min	%Us	20
	(TO (OOL)	max	%Us	55
	of 50/60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	85
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	55
AC average coil cons	sumption at 20°C			
3	of 50/60Hz coil powered at 50Hz			
	01 00/001 12 0011 por 01 00 01 12	in-rush	VA	75
		holding	VA	9
	of 50/60Hz coil powered at 60Hz	Holding	٧٨	<u> </u>
	or 50/60Hz coil powered at 60Hz	:	١/٨	70
		in-rush	VA	70
	4.200	holding	VA	6.5
	of 60Hz coil powered at 60Hz			
		in-rush	VA	75
		holding	VA	9
Dissipation at holding	g ≤20°C 50Hz		W	2.5
Max cycles frequency	У			
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us	control			
	in AC			
		min	me	Q
	in AC	min	ms	8
	in AC Closing NO	min max	ms ms	8 24
	in AC	max	ms	24
	in AC Closing NO	max min	ms ms	10
	in AC Closing NO Opening NO	max	ms	24
	in AC Closing NO	max min max	ms ms	24 10 20
	in AC Closing NO Opening NO	max min	ms ms	24102014
	in AC Closing NO Opening NO Closing NC	max min max	ms ms ms	24 10 20
	in AC Closing NO Opening NO	max min max min	ms ms ms	24102014
	in AC Closing NO Opening NO Closing NC	max min max min	ms ms ms	24102014
	in AC Closing NO Opening NO Closing NC	max min max min max	ms ms ms ms	24 10 20 14 28
UL technical data	in AC Closing NO Opening NO Closing NC	max min max min max min	ms ms ms ms ms	24 10 20 14 28 7
UL technical data Rated operational vol	in AC Closing NO Opening NO Closing NC Opening NC	max min max min max min	ms ms ms ms ms	24 10 20 14 28 7 18
Rated operational vol	in AC Closing NO Opening NO Closing NC Opening NC	max min max min max min	ms ms ms ms ms	24 10 20 14 28 7
Rated operational vol	in AC Closing NO Opening NO Closing NC Opening NC	max min max min max min max	ms ms ms ms ms ms	24 10 20 14 28 7 18
Rated operational vol	in AC Closing NO Opening NO Closing NC Opening NC	max min max min max min max	ms ms ms ms ms v	24 10 20 14 28 7 18 600
Rated operational vol Full-load current (FLA	in AC Closing NO Opening NO Closing NC Opening NC Opening NC A) for three-phase AC motor	max min max min max min max	ms ms ms ms ms ms	24 10 20 14 28 7 18
Rated operational vol	in AC Closing NO Opening NO Closing NC Opening NC Opening NC Opening NC Itage AC (UL) A) for three-phase AC motor Opening NC	max min max min max min max	ms ms ms ms ms v	24 10 20 14 28 7 18 600
Rated operational vol Full-load current (FLA	in AC Closing NO Opening NO Closing NC Opening NC Opening NC A) for three-phase AC motor	max min max min max min max at 480V at 600V	ms ms ms ms ms v	24 10 20 14 28 7 18 600 21 17
Rated operational vol Full-load current (FLA	in AC Closing NO Opening NO Closing NC Opening NC Opening NC Opening NC Itage AC (UL) A) for three-phase AC motor Opening NC	max min max min max min max at 480V at 600V	ms ms ms ms ms ms A A HP	24 10 20 14 28 7 18 600 21 17
Rated operational vol Full-load current (FLA	in AC Closing NO Opening NO Closing NC Opening NC Opening NC A) for three-phase AC motor Derformance for single-phase AC motor	max min max min max min max at 480V at 600V	ms ms ms ms ms v	24 10 20 14 28 7 18 600 21 17
Rated operational vol Full-load current (FLA	in AC Closing NO Opening NO Closing NC Opening NC Opening NC Opening NC Itage AC (UL) A) for three-phase AC motor Opening NC	max min max min max min max at 480V at 600V 110/120V 230V	ms ms ms ms ms ms A HP HP	24 10 20 14 28 7 18 600 21 17
Rated operational vol Full-load current (FLA	in AC Closing NO Opening NO Closing NC Opening NC Opening NC A) for three-phase AC motor Derformance for single-phase AC motor	max min max min max min max at 480V at 600V	ms ms ms ms ms ms A A HP	24 10 20 14 28 7 18 600 21 17
Rated operational vol Full-load current (FLA	in AC Closing NO Opening NO Closing NC Opening NC Opening NC A) for three-phase AC motor Derformance for single-phase AC motor	max min max min max min max at 480V at 600V 110/120V 230V	ms ms ms ms ms ms A HP HP	24 10 20 14 28 7 18 600 21 17
Rated operational vol Full-load current (FLA	in AC Closing NO Opening NO Closing NC Opening NC Opening NC A) for three-phase AC motor Derformance for single-phase AC motor	max min max min max min max at 480V at 600V 110/120V 230V 200/208V	ms ms ms ms ms ms A HP HP	24 10 20 14 28 7 18 600 21 17
Rated operational vol Full-load current (FLA	in AC Closing NO Opening NO Closing NC Opening NC Opening NC A) for three-phase AC motor Derformance for single-phase AC motor	max min max min max min max at 480V at 600V 110/120V 230V 200/208V 220/230V	ms ms ms ms ms ms A HP HP	24 10 20 14 28 7 18 600 21 17 2 3 7.5 7.5

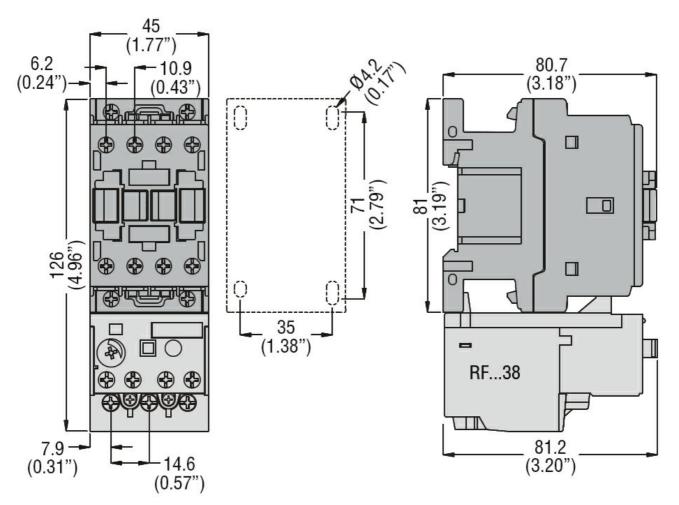




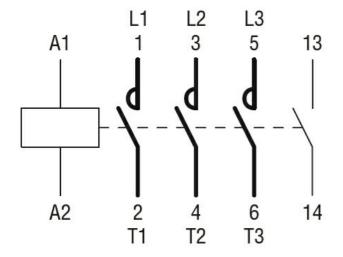
General USE				
	Contactor			
		AC current	Α	32
	Auxiliary contacts			
		AC voltage	V	600
		AC current	Α	10
		DC voltage	V	250
		DC current	Α	1
Short-circuit protection	on fuse, 600V			
,	High fault			
	3	Short circuit current	kA	100
		Fuse rating	Α	60
		Fuse class		J
	Standard fault			-
		Short circuit current	kA	5
		Fuse rating	Α	100
Contact rating of auxiliary contacts according to UL		. acc .ag		A600 - P600
Ambient conditions	mary contacts according to GE			71000 1 000
Temperature				
remperature	Operating temperature			
	Operating temperature	min	°C	-50
		max	°C	70
	Storage temperature	IIIdA		70
	Storage temperature	min	°C	-60
			°C	-60 80
Man altituda		max		
Max altitude	e		m	3000
Resistance & Protect	tion			
Pollution degree				3
Dimensions				

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 25A, AC COIL 50/60HZ, 48VAC, 1NO 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

Certificates

CCC



BF2510A048

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 25A, AC COIL 50/60HZ, 48VAC, 1NO AUXILIARY CONTACT

cULus			
EAC			

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching