





Product designation Product type designation			Power contactor 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
	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	Α	23
	110V	Α	16
	220V	Α	1
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	·		
	≤24V	Α	23
	48V	Α	23
	75V	Α	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	A	13	
	75V	Α	13	
	110V	Α	2	
	220V	A	_	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	220 V			
TEC max current le in DC3-DC3 with L/K \(\) 13ms with 2 poles in series	<241/	۸	4.0	
	≤24V	A	18	
	48V	A	18	
	75V	A	16	
	110V	A	10	
150 H. I. BOO BOS WILLIE W. S.	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				
	≤24V	Α	_	
	48V	Α	_	
	75V	Α	_	
	110V	Α	_	
	220V	Α	_	
Short-time allowable current for 10s (IEC/EN60947-1)		Α	200	
Protection fuse				
	gG (IEC)	Α	50	
	aM (IEC)	Α	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)	0001	mΩ	2.5	
Power dissipation per pole (average value)		11122	2.0	
i ower dissipation per pole (average value)	Ith	W	2.6	
	AC-3	W	2.6 1.6	
Tightoning targue for terminals	AC-3	VV	1.0	
Tightening torque for terminals	t	NI	4.5	
	min	Nm	1.5	
	max	Nm	1.8	
	min	lbin	1.1	
	max	Ibin	1.5	
Tightening torque for coil terminal	_			
	min	Nm	0.8	
	max	Nm	1	
	min	Ibin	0.8	



		max	Ibin	0.74
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		10
	Flexible w/o lug conductor section		2	
		min	mm²	1
	FI 21 / 1 / 2	max	mm²	6
	Flexible c/w lug conductor section			4
		min	mm²	1
	Clavible with insulated and de lug acadustos acetic	max	mm²	4
	Flexible with insulated spade lug conductor section		2	4
		min	mm²	1 4
		max	mm²	IP20 when
Power terminal prote	ction according to IEC/EN 60529			properly wired
Mechanical features				proporty whou
Operating position				
- Faramis boomon		normal		Vertical plan
		allowable		±30°
				Screw / DIN rail
Fixing				35mm
Weight			g	500
Auxiliary contact char	racteristics			
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	C12			_
		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				00005
Mechanical life			cycles	20000000
Electrical life			cycles	1200000
Safety related data	40 Lanca Part to EN//00 40 400 4			
Performance level B	10d according to EN/ISO 13489-1	,		100000
		rated load	cycles	1200000
B.C.	F (- IFO/FN 000474 4 4	mechanical load	cycles	20000000
	ling to IEC/EN 609474-4-1			Yes
EMC compatibility				yes
AC coil operating				

AC operating voltage

of 50/60Hz coil powered at 50Hz drop-out



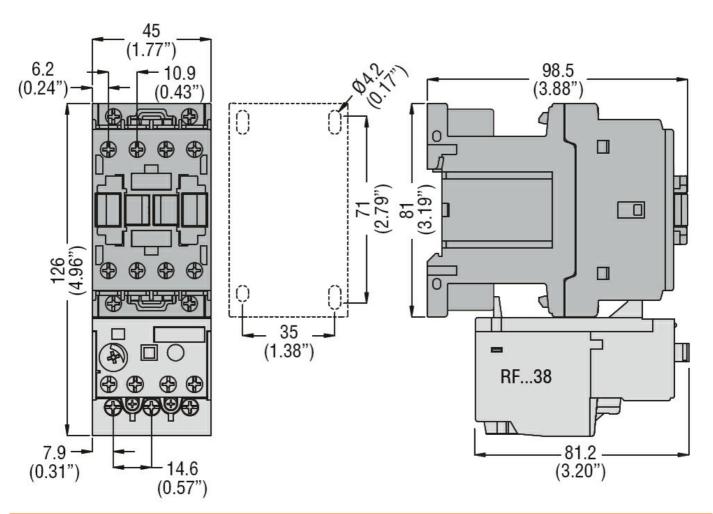


			max	%Us	55
DC coil operating				.,,	40
DC rated control voltag	e			V	48
DC operating voltage	niek un				
	pick-up		min	%Us	80
			max	%Us	110
	drop-out		THUX.	7000	
	5. 5p 5 5.		min	%Us	10
			max	%Us	40
Average coil consumpt	ion ≤20°C				_
			in-rush	W	2.4
			holding	W	2.4
Max cycles frequency					222
Mechanical operation				cycles/h	3600
Operating times	ntrol				
Average time for Us co	ntroi in AC				
	III AC	Closing NO			
		Closing NO	min	ms	8
			max	ms	24
		Opening NO			
			min	ms	10
			max	ms	20
		Closing NC			
			min	ms	14
		On anima NO	max	ms	28
		Opening NC	min	ma	7
			min max	ms ms	18
	in DC		Пах	1110	10
	2 3	Closing NO			
		ŭ	min	ms	75
			max	ms	91
		Opening NO			
			min	ms	15
		01 1 110	max	ms	19
		Closing NC	!		2.4
			min	ms ms	24 30
		Opening NC	max	ms	30
		Oponing NO	min	ms	67
			max	ms	81
UL technical data					
Rated operational volta	ge AC (UL)			V	600
Full-load current (FLA)	for three-phase AC	motor			
			at 480V	Α	21
			at 600V	Α	17
Yielded mechanical per		2 4			
	for single-phase AC	o motor	440/4001	LID	0
			110/120V 230V	HP HP	2 3
	for three-phase AC	motor	Z3UV	пР	<u> </u>
	ioi unee-phase AC	motor	200/208V	HP	7.5
			200/200 V		

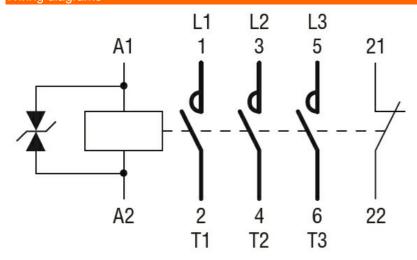




	220/230V	HP	7.5
	460/480V	HP	15
	575/600V	HP	15
General USE			
Contactor			
	AC current	Α	32
Auxiliary contacts			
	AC voltage	V	600
	AC current	Α	10
	DC voltage	V	250
	DC current	Α	1
Short-circuit protection fuse, 600V			
High fault			
	Short circuit current	kA	100
	Fuse rating	Α	60
	Fuse class		J
Standard fault			
	Short circuit current	kA	5
	Fuse rating	Α	100
Contact rating of auxiliary contacts according to UL			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



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



BF2501L048

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 25A, DC COIL LOW CONSUMPTION, 48VDC, 1NC AUXILIARY CONTACT

CCC	
cULus	
EAC	

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching