



Product designation		Power contactor
Product type designation		BF25
Contact characteristics		
Number of poles	nr.	3
Rated insulation voltage Ui	V	690
Rated impulse withstand voltage Uimp	kV	6
Operating frequency		
Operational frequency min	Hz	25
Operational frequency max	Hz	400
Conventional free air thermal current Ith	Α	32
Operating current		
Operational current AC3 (≤440V ≤55°C)	Α	25
Operational current AC4 (400V)	Α	10
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		
Breaking capacity 440V	Α	200
Breaking capacity 500V	Α	184
Breaking capacity 690V	Α	102
Resistance per pole (average value)	mΩ	2.5
Power dissipation per pole (average value)		
Power dissipation pole (average value) Ith	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	0.59
max	lbft	0.74
max number of wires simultaneously connectable	nr.	2
Conductor section		
AWG		4.0
min		16
The vibility of the production position		10
Flexible w/o lug conductor section	ma 2	4
min max	mm² mm²	1 6
		n





	mir	n mm²	1
	max	c mm²	4
	Flexible with insulated spade lug conductor section		
	mir	n mm²	1
	max	c mm²	4
Power terminal protect	ion according to IEC/EN 60529		IP20
Auxiliary contact chara			
Type of contact	OCONORIO		1 NA
		Λ	
Thermal current Ith		Α	32
IEC/EN 60947-5-1 des	signation		A600
Ambient conditions			
Temperature			
	Operating temperature		
	mir	n °C	-50
	ma	⟨ °C	70
	Storage temperature		
		n °C	-60
	mir		
NA10'6 - 1	max		80
Max altitude		m	3,000
Operating position			
	norma	l	Vertical plan
	allowable	)	±30°
Mounting			Screw / DIN rail 35mm
Weight		g	0.367
Operations		9	0.007
Mechanical life		Cycles	20,000,000
		•	
Electrical life		Cycles	1200000
Safety related data			
Performance level B10	od according to EN/ISO 13489-1 -		
	Performance level B10d according to EN		
	Performance level B10d according to EN	/ISO <b>@18</b> 89	9-12010000100000000000000000000000000000
Mirror contats according	ng to IEC/EN 609474-4-1		Yes
EMC compatibility	•		Yes
AC coil operating			100
Rated AC voltage at 50	2/6011- 6011-		
Raied AC vollage at 50			40
	mir		12
	max	( V	600
AC operating voltage			
	of 50/60Hz coil powered at 50Hz		
	pick-up		
	mir	n %Us	80
	ma		110
	drop-out	. /003	710
	·	0/110	20
	mir		20
	max	« %Us	55
	of 50/60Hz coil powered at 60Hz		
	pick-up		
	mir	n %Us	85
	max		110
	drop-out		
	mir	n %Us	20
	max	« %Us	55



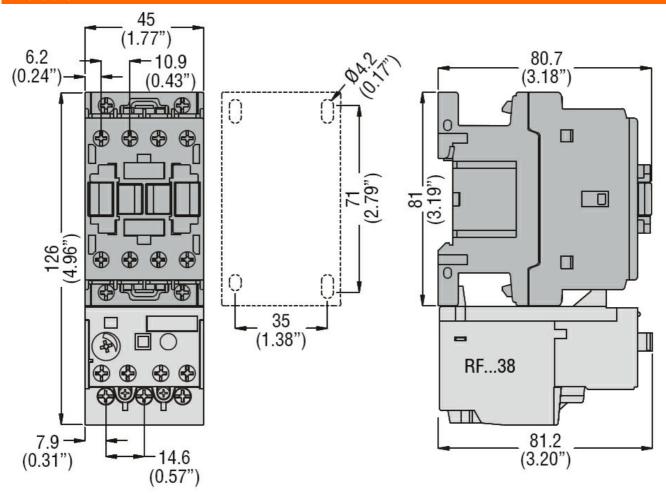


	of 60Hz poil powered at 60Hz			
	of 60Hz coil powered at 60Hz			
	pick-up	•	0/11	0.0
		min	%Us	80
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	55
AC operating voltage				
, ,	of 50/60Hz coil powered at 50Hz			
	γ	in-rush	VA	75
		holding	VA	9
	of 50/60Hz goil noward at 60Hz	riolaling	VA	
	of 50/60Hz coil powered at 60Hz	:	١/٨	70
		in-rush	VA	70
		holding	VA	6.5
	of 60Hz coil powered at 60Hz			
		in-rush	VA	75
		holding	VA	9
Dissipation at holding	≤20°C 50Hz		W	2.5
Max cycles frequency				
Mechanical operations			Cycles/h	3.600
Operating times			, , , , , ,	
Average time for Us c	ontrol			
Average time for 03 of	in AC			
	Closing NO			•
		min	ms	8
		max	ms	24
	Opening NO			
		min	ms	10
		max	ms	20
	Closing NC			
		min	ms	14
		max	ms	28
	Opening NC			
	o p a miligrar	min	ms	7
		max	ms	18
UL technical data		Παλ	1113	10
	) for three phase AC mater			
Full-load current (FLA	) for three-phase AC motor		Δ.	0.4
		at 480V	A	21
		at 600V	А	17
Yielded mechanical pe				
	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	•	15
Contact roting of accell	lant contacts according to LII	at 373/000V	hp	
	ary contacts according to UL			SI - A600
General USE				
	Contactor			
		AC current	Α	32
	Auxiliary contacts			
		AC voltage	V	600

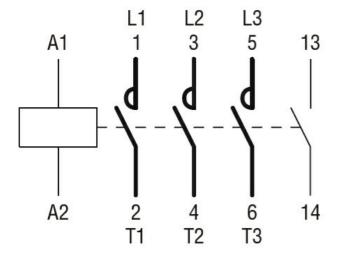


AC current A 10
DC voltage V 250
DC current A 1

#### 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



**ENERGY AND AUTOMATION** 

## BF2510A024

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 25A, AC COIL 50/60HZ, 24VAC, 1NO AUXILIARY CONTACT

	UL 60947-1		
	UL 60947-4-1		
Compliance			
	CCC		
	cULus		
	FAC		

ETIM 6 classification

EC000066 - Power contactor, AC switching