



Des dust de sien stien			Devenerate
Product designation			Power contactor
Product type designation			BF38
Contact characteristics		Nir	1
Number of poles		Nr. V	4 690
Rated insulation voltage Ui IEC/EN		kV	
Rated impulse withstand voltage Uimp		κv	6
Operational frequency			25
	min	Hz	25
IFC Convertional free air the media unrent lth	max	Hz	400
IEC Conventional free air thermal current Ith		A	56
Operational current le		^	50
	AC-1 ( $\leq$ 40°C)	A	56
	AC-1 (≤40°C) with 16mm <sup>2</sup> wire and fork end	-	60
	AC-1 (≤55°C)	A	45
	AC-1 (≤55°C) with 16mm <sup>2</sup> wire and fork end	-	48
	AC-1 (≤70°C)	A	40
	AC-1 (≤70°C) with 16mm² wire and fork end AC-3 (≤440V ≤55°C)		42
	AC-3 (5440V 553 C) AC-4 (400V)	A A	38 15.5
Poted appretianal new or AC 1 (T<40°C)	AC-4 (400V)	A	15.5
Rated operational power AC-1 (T≤40°C)	2201/	L\\/	04
	230V	kW	21
	400V 500V	kW kW	36 45
	690V	kW	45 62
IEC max current le in DC1 with L/R ≤ 1ms wi		r v v	02
	≤24V	۸	35
	≤24∨ 48V	A	35 30
	40V 75V	A A	23
	110V	A	8
	220V	A	
IEC max current le in DC1 with L/R ≤ 1ms wi		A	_
$EC \max Current le lin DCT with E/R \le \max$		۸	26
	≤24V 48V	A A	36 34
	48V 75V	A	34 29
	75V 110V	A	29 32
	220V	A	4
IEC max current le in DC1 with L/R ≤ 1ms wi		~	7
	≤24V	А	36
	48V	A	34
	75V	A	33
	110V	A	34
	220V	A	30
IEC max current le in DC1 with L/R ≤ 1ms wi		~	50
	≤24V	А	36
	48V	A	34
	40 V	А	54

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	75V	А	33
	110V	А	34
	220V	А	38
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	А	24
	48V	A	20
	75V	A	17
	110V	A	2,5
	220V	A	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	2201		
	≤24V	А	28
	48V	A	25
	75V	A	22
	110V	A	18
	220V	A	3
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	220 V	~	5
TEC max current le in DC3-DC3 with E/K = 15ms with 5 poles in series	≤24V	А	32
	≤24V 48V		
		A	28
	75V	A	28
	110V	A	23
	220V	A	25
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 4 poles in series	-0.0.4		
	≤24V	A	32
	48V	A	28
	75V	A	28
	110V	A	23
	220V	A	15
Short-time allowable current for 10s (IEC/EN60947-1)		Α	320
Protection fuse			
	gG (IEC)	A	63
	aM (IEC)	A	40
Making capacity (RMS value)		A	380
Breaking capacity at voltage		-	
	440V	А	304
	500V	А	240
	690V	A	192
Resistance per pole (average value)		mΩ	2
Power dissipation per pole (average value)			
	lth	W	6
	AC-3	W	2.9
Tightening torque for terminals			
	min	Nm	2.5
	max	Nm	3
	min	lbin	1.8
	max	lbin	2.2
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbin	0.8
	max	lbin	0.74
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
ANAC/Komil			

AWG/Kcmil

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6

max

		Пал		0
	Flexible w/o lug conductor section			
		min	mm²	2.5
		max	mm²	16
	Flexible c/w lug conductor section			
		min	mm²	1
		max	mm²	10
	Flexible with insulated spade lug conduct	or section		
		min	mm²	1
		max	mm²	10
Power terminal protec	tion according to IEC/EN 60529			IP20 when
Power terminal protec	tion according to IEC/EN 80529			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail
				35mm
Weight			g	665
Conductor section				
	AWG/kcmil conductor section			
		max		6
Operations				
Mechanical life			cycles	2000000
Electrical life			cycles	1400000
Safety related data				
Performance level B1	0d according to EN/ISO 13489-1			
		rated load	cycles	1400000
		mechanical load	cycles	2000000
Mirror contats according	ng 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				
DC rated control voltage	ge		V	48
DC operating voltage				
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out			
		min	%Us	10
		max	%Us	40

Average seil consumption <20°C

Average coll consumption \$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 control			

in AC

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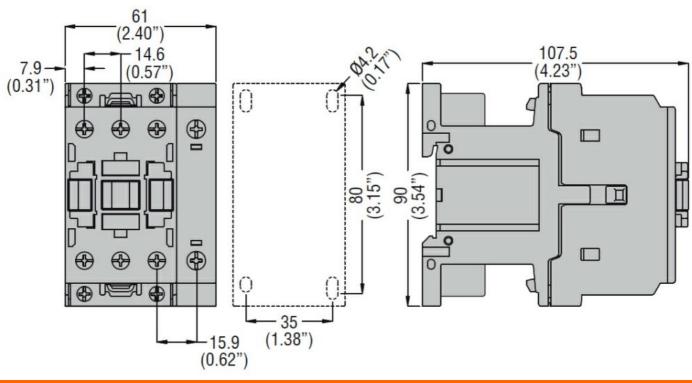


		Closing NO			2
			min	ms	8
			max	ms	24
		Opening NO	min		5
			min max	ms ms	5 15
		Closing NC	IIIdA	1115	15
			min	ms	9
			max	ms	20
		Opening NC	max	mo	20
		opening No	min	ms	9
			max	ms	17
	in DC				
		Closing NO			
		elecing ite	min	ms	76
			max	ms	92
		Opening NO	max		
			min	ms	16
			max	ms	20
UL technical data					- 
	A) for three-phase AC m	notor			
	,,		at 480V	А	40
			at 600V	A	32
Yielded mechanical	performance				
	for single-phase AC	motor			
			110/120V	HP	3
			230V	HP	7.5
	for three-phase AC	motor			
			200/208V	HP	10
			220/230V	HP	15
			460/480V	HP	30
			575/600V	HP	30
General USE					
	Contactor				
			AC current	А	55
Short-circuit protecti	on fuse, 600V				
	High fault				
			Short circuit current	kA	100
			Fuse rating	A	100
			Fuse class		J
	Standard fault				
			Short circuit current	kA	5
			Fuse rating	A	150
Ambient conditions					
Temperature					
	Operating temperatu	ıre			
	- 1		min	°C	-50
			max	°Č	70
	Storage temperature	9			
			min	°C	-60
			max	°Č	80
Max altitude				m	3000
Resistance & Protec	tion				
Pollution degree					3
			11.00 (1 )		
The choree	toristics described in this desuman	t are subject to undetee or med	utiontions at any time. The descriptions	to obside al	

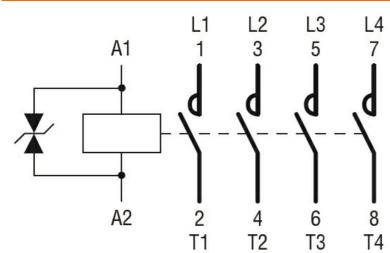
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Dimensions



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	
	CCC
	cULus
	EAC
ETIM classificatio	bn



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ETIM 8.0

EC000066 -Power contactor, AC switching