



Product designation			Power contactor
Product type designation			BF38
Contact characteristics			
Number of poles		Nr.	4
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	Пах	A	56
Operational current le			00
	AC-1 (≤40°C)	А	56
	AC-1 (≤40°C) with 16mm ² wire and fork end		60
	AC-1 (≤55°C)	A	45
	AC-1 (≤55°C) with 16mm ² wire and fork end		48
	AC-1 (≤70°C)	A	40
	AC-1 (≤70°C) with 16mm ² wire and fork end		42
	AC-3 (≤440V ≤55°C)	A	38
	AC-4 (400V)	A	15.5
Rated operational power AC-1 (T≤40°C)			
	230V	kW	21
	400V	kW	36
	500V	kW	45
	690V	kW	62
Short-time allowable current for 10s (IEC/EN6		Α	320
Protection fuse			
	gG (IEC)	А	63
	aM (IEC)	А	40
Making capacity (RMS value)		Α	380
Breaking capacity at voltage			
	440V	А	304
	500V	А	240
	690V	А	192
Resistance per pole (average value)		mΩ	2
Power dissipation per pole (average value)			
	Ith	W	6
	AC-3	W	2.9
Tightening torque for terminals			
	min	Nm	2.5
	max	Nm	3
	min	Ibin	1.8
	max	Ibin	2.2
Tightening torque for coil terminal	-		
	min	Nm	0.8

Nm

max

1



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		min	Ibin	0.8
		max	Ibin	0.74
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			e
	Elevible w/e lug conductor section	max		6
	Flexible w/o lug conductor section	min	mm²	2.5
		max	mm²	16
	Flexible c/w lug conductor section	Пал		10
		min	mm²	1
		max	mm²	10
	Flexible with insulated spade lug conductor section			
		min	mm²	1
		max	mm²	10
				IP20 when
Power terminal protect	tion according to IEC/EN 60529			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Eiving				Screw / DIN ra
Fixing				35mm
Weight			g	664
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	20000000
	ng to IEC/EN 609474-4-1			YES
EMC compatibility				yes
DC coil operating				
DC rated control volta	ge		V	24
DC operating voltage				
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out		_	
		min	%Us	10
		max	%Us	40
Average coil consump	otion ≤20°C			
		in-rush	W	2.4
		holding	W	2.4
Max cycles frequency				
Mechanical operation			cycles/h	3600
			cycles/h	3600

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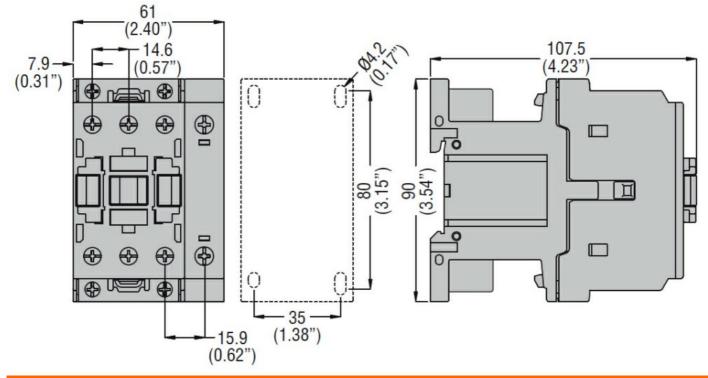
		Closing NO	min	me	8
				ms ms	o 24
		Opening NO	max	ms	24
		Opening NO	min	ms	5
			max	ms	15
		Closing NC	Παλ	1115	10
			min	ms	9
			max	ms	20
		Opening NC			
		epeg.re	min	ms	9
			max	ms	17
	in DC			_	
	-	Closing NO			
		0	min	ms	76
			max	ms	92
		Opening NO			
			min	ms	16
			max	ms	20
		Closing NC			
		Ũ	min	ms	25
			max	ms	31
		Opening NC			
			min	ms	63
			max	ms	71
UL technical data					
Full-load current (FLA)	for three-phase AC r	notor			
			at 480V	А	40
			at 600V	А	32
Yielded mechanical pe	erformance				
	for single-phase AC	C motor			
			110/120V	HP	3
			110/120V 230V	HP HP	3 7.5
	for three-phase AC	motor	230V	HP	7.5
	for three-phase AC	motor	230V 200/208V	HP HP	7.5
	for three-phase AC	motor	230V 200/208V 220/230V	HP HP HP	7.5 10 15
	for three-phase AC	motor	230V 200/208V 220/230V 460/480V	HP HP HP HP	7.5 10 15 30
	for three-phase AC	motor	230V 200/208V 220/230V	HP HP HP	7.5 10 15
General USE		motor	230V 200/208V 220/230V 460/480V	HP HP HP HP	7.5 10 15 30
General USE	for three-phase AC	motor	230V 200/208V 220/230V 460/480V 575/600V	HP HP HP HP HP	7.5 10 15 30 30
		motor	230V 200/208V 220/230V 460/480V	HP HP HP HP	7.5 10 15 30
Ambient conditions		motor	230V 200/208V 220/230V 460/480V 575/600V	HP HP HP HP HP	7.5 10 15 30 30
	Contactor		230V 200/208V 220/230V 460/480V 575/600V	HP HP HP HP HP	7.5 10 15 30 30
Ambient conditions			230V 200/208V 220/230V 460/480V 575/600V AC current	HP HP HP HP	7.5 10 15 30 30 55
Ambient conditions	Contactor		230V 200/208V 220/230V 460/480V 575/600V AC current min	HP HP HP HP	7.5 10 15 30 30 55 -50
Ambient conditions	Contactor Operating temperat	ure	230V 200/208V 220/230V 460/480V 575/600V AC current	HP HP HP HP	7.5 10 15 30 30 55
Ambient conditions	Contactor	ure	230V 200/208V 220/230V 460/480V 575/600V AC current min max	HP HP HP HP A °C	7.5 10 15 30 30 55 -50 70
Ambient conditions	Contactor Operating temperat	ure	230V 200/208V 220/230V 460/480V 575/600V AC current min max min	HP HP HP HP A °C °C	7.5 10 15 30 30 55 -50 70 -60
Ambient conditions Temperature	Contactor Operating temperat	ure	230V 200/208V 220/230V 460/480V 575/600V AC current min max	HP HP HP HP A °C °C °C	7.5 10 15 30 30 55 -50 70 -60 80
Ambient conditions Temperature Max altitude	Contactor Operating temperat	ure	230V 200/208V 220/230V 460/480V 575/600V AC current min max min	HP HP HP HP A °C °C	7.5 10 15 30 30 55 -50 70 -60
Ambient conditions Temperature Max altitude Resistance & Protectio	Contactor Operating temperat	ure	230V 200/208V 220/230V 460/480V 575/600V AC current min max min	HP HP HP HP A °C °C °C	7.5 10 15 30 30 55 -50 70 -60 80 3000
Ambient conditions Temperature Max altitude	Contactor Operating temperat	ure	230V 200/208V 220/230V 460/480V 575/600V AC current min max min	HP HP HP HP A °C °C °C	7.5 10 15 30 30 55 -50 70 -60 80

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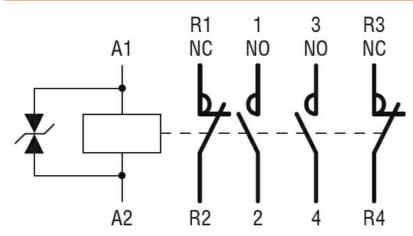
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Wiring diagrams



Certifications and 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	
CCC	
cULus	
EAC	
	EC000066 - Power contactor, AC switching
	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 CCC cULus

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