

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 56A, DC COIL, 125VDC, 2NO AND 2NC



Product designation			Power contactor
Product type designation			BF38
Contact characteristics		NIn	4
Number of poles		Nr. V	4
Rated insulation voltage Ui IEC/EN		-	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		Α	56
Operational current le			
	AC-1 (≤40°C)	Α	56
	AC-1 (≤40°C) with 16mm² wire and fork end	•	60
	AC-1 (≤55°C)	Α	45
	AC-1 (≤55°C) with 16mm² wire and fork end	_	48
	AC-1 (≤70°C)	Α	40
	AC-1 (≤70°C) with 16mm² wire and fork end	lugA	42
	AC-3 (≤440V ≤55°C)	Α	38
	AC-4 (400V)	Α	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	0947-1)	Α	320
Protection fuse			_
	gG (IEC)	Α	63
	aM (IEC)	Α	40
Making capacity (RMS value)		Α	380
Breaking capacity at voltage			_
	440V	Α	304
	500V	Α	240
	690V	Α	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	7.00		
go.mig torque for torriniale	min	Nm	2.5
	max	Nm	3
	min	Ibin	1.8
	max	Ibin	2.2
Tightening torque for coil terminal	illax	וווטו	<i>L.L</i>
rightening torque for con terminal	min	Nm	0.8
	max	Nm	0.8 1
	IIIdX	1 11111	1



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	mir	Ibin	0.8
	max	. Ibin	0.74
	simultaneously connectable	Nr.	2
Conductor section			
	AWG/Kcmil		
	max	[6
	Flexible w/o lug conductor section		
	mir		2.5
	max	mm²	16
	Flexible c/w lug conductor section		4
	mir		1
	The side of the second tensor of tensor of the second tensor of the second tensor of the second tensor of t	mm²	10
	Flexible with insulated spade lug conductor section	2	4
	mir		1 10
	max	mm²	
ower terminal protec	ction according to IEC/EN 60529		IP20 when properly wired
Mechanical features			property wired
Operating position			
2 position	norma	1	Vertical plan
	allowable		±30°
=• •			Screw / DIN rail
Fixing			35mm
Veight		g	665
Conductor section			
	AWG/kcmil conductor section		
	max	(6
Operations			
Mechanical life		cycles	20000000
Electrical life		cycles	1400000
Safety related data			
Performance level B1	0d according to EN/ISO 13489-1		
	rated load	l 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	125
OC operating voltage			
	pick-up		
	mir		80
	max	%Us	125
	drop-out	0/11	40
	mir		10
A	max	%Us	40
Average coil consump		147	T 4
	in-rush		5.4
Max avalas fragueras	holding	ı W	5.4
Max cycles frequency		0) (5) 5 = //	2600
Mechanical operation		cycles/h	3000
Operating times	ontrol		
Average time for Us c	ONITOI		

in AC

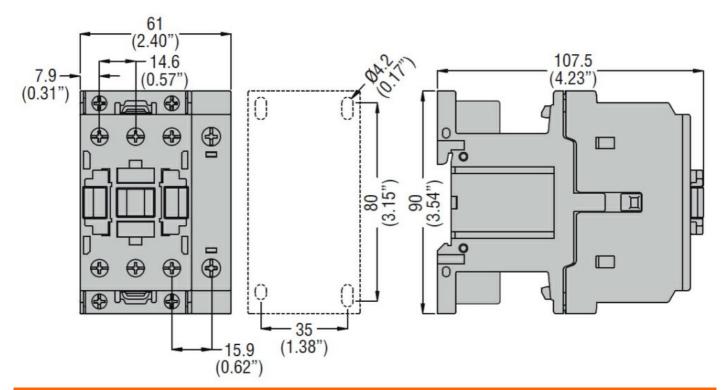


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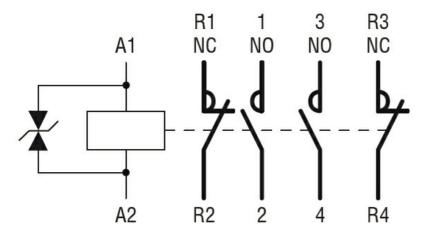
		Objective NIO			
		Closing NO			0
			min	ms	8
		Opening NO	max	ms	24
		Opening NO	min	mo	E
			min	ms	5 15
		Closing NC	max	ms	15
		Closing NC	min	ms	9
			max	ms	20
		Opening NC	max	1110	20
		opolinig 110	min	ms	9
			max	ms	17
	in DC				
	= 0	Closing NO			
		3 3	min	ms	54
			max	ms	66
		Opening NO			
		, 5	min	ms	14
			max	ms	17
		Closing NC			•
		5.55g	min	ms	23
			max	ms	28
		Opening NC			
		opolinig 110	min	ms	46
			max	ms	56
UL technical data					
	for three-phase AC mo	otor			
,	'		at 480V	Α	40
			at 600V	Α	32
Yielded mechanical pe	erformance				_
•	for single-phase AC r	notor			
	.		110/120V	HP	3
			230V	HP	7.5
	for three-phase AC m	notor			_
			200/208V	HP	10
			220/230V	HP	15
			460/480V	HP	30
			575/600V	HP	30
General USE					
	Contactor				
			AC current	Α	55
Ambient conditions					
Temperature					
•	Operating temperatur	e			
	, 5 1 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		min	°C	-50
			max	°C	70
	Storage temperature				
	- 3-1-1-g-1 - 3-1-1-p-1-1-1-1-1-1		min	°C	-60
				_	
			max	°C	80
Max altitude			max	°C m	80 3000
Max altitude Resistance & Protection	on		max	°C m	3000
Resistance & Protection	on		max		3000
	on 		max		

ENERGY AND AUTOMATION

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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 classification

ETIM 8.0

EC000066 -Power contactor, AC switching