



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		Α	56
Operational current le			
	AC-1 (≤40°C)	А	56
AC-1 (≤40°C) with 16r	mm ² wire and fork end	lugA	60
	AC-1 (≤55°C)	А	45
AC-1 (≤55°C) with 16r	mm ² wire and fork end	lugA	48
	AC-1 (≤70°C)	А	40
AC-1 (≤70°C) with 16r	mm ² wire and fork end	lugA	42
A	AC-3 (≤440V ≤55°C)	А	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
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
	≤24V	А	35
	48V	А	30
	75V	А	23
	110V	А	8
	220V	А	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
	≤24V	А	36
	48V	А	34
	75V	A	29
	110V	А	32
	220V	А	4
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
	≤24V	А	36
	48V	A	34
	75V	A	33
	110V	A	34
	220V	A	30
IEC max current le in DC1 with L/R \leq 1ms with 4 poles in series	2201		
	≤24V	А	36
	48V	A	34
	40 V	~	54



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	75V	А	33
	110V	А	34
	220V	A	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			
	≤24V	А	28
	48V	A	25
	75V	A	22
	110V	A	18
	220V	A	3
IEC may autrent to in DC2 DC5 with $1/P < 15$ may with 2 palas in series	2200	A	3
IEC max current le in DC3-DC5 with L/R \leq 15ms with 3 poles in series	<241/	۸	22
	≤24V 48V	A	32
	48V 75V	A	28
		A	28
	110V	A	23
	220V	A	25
IEC max current le in DC3-DC5 with L/R \leq 15ms with 4 poles in series			
	≤24V	A	32
	48V	Α	28
	75V	Α	28
	110V	А	23
	220V	A	15
Short-time allowable current for 10s (IEC/EN60947-1)		A	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	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			
	min	Nm	2.5
	max	Nm	3
	min	Ibin	1.8
	max	Ibin	2.2
Tightening torque for coil terminal			
			0.8
	min	Nm	0.0
	min max	Nm Nm	1
	max	Nm	1
Max number of wires simultaneously connectable	max min	Nm Ibin	1 0.8

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ENERGY AND AUTOMATION	FOUR-POLE CONTACTOR, IEC OPERATING CURP	KENTTIH (AC	,1) = 56A	, DC COIL, 60VDC
		max		6
	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 conductor section			
		min	mm²	1
		max	mm²	10
Power terminal protect	ction according to IEC/EN 60529			IP20 when 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	20000000
Electrical life		cycles	1400000
Safety related data			
Performance level B10d according to EN/ISO 13489-1			
	rated load	cycles	1400000
	mechanical load	cycles	2000000
Mirror contats according to IEC/EN 609474-4-1			yes
EMC compatibility			yes
DC coil operating			
DC rated control voltage		V	60
DC operating voltage			
pick-up			
	min	%Us	80
	max	%Us	125
drop-out			
	min	%Us	10
	max	%Us	40
Average coil consumption ≤20°C			
	in-rush	W	5.4
	holding	W	5.4
Max cycles frequency			
Mechanical operation		cycles/h	3600
Operating times			
Average time for Us control			
in AC			
Closing NO			
	min	ms	8
	max	ms	24
Opening NO			<i>r</i>
	min	ms	5
	max	ms	15

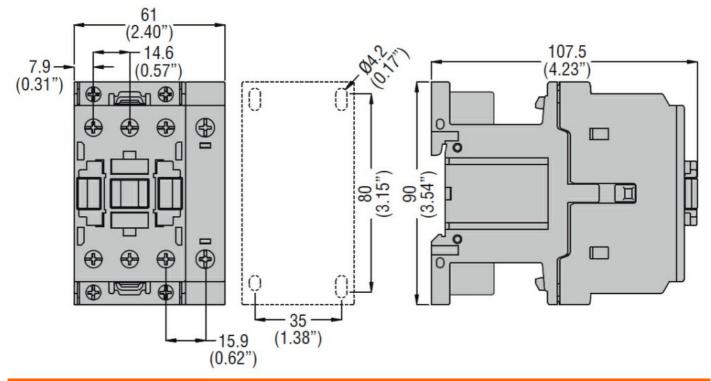




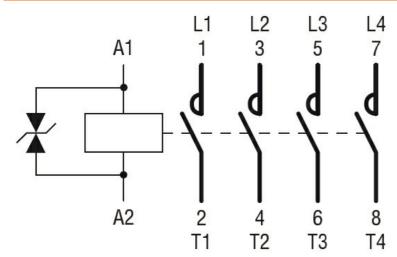
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		Closing NC	min	m 0	0
			max	ms ms	9 20
		Opening NC	max	1115	20
		opolingito	min	ms	9
			max	ms	17
	in DC				
		Closing NO			
			min	ms	54
			max	ms	66
		Opening NO	min	me	14
			max	ms ms	17
UL technical data			max	1113	17
Full-load current (FLA)	for three-phase AC mo	otor			
. ,			at 480V	А	40
			at 600V	А	32
Yielded mechanical pe					
	for single-phase AC r	notor			
			110/120V	HP	3
	for three phase AC m	otor	230V	HP	7.5
	for three-phase AC m	lotor	200/208V	HP	10
			220/230V	HP	15
			460/480V	HP	30
			575/600V	HP	30
General USE					
	Contactor				
			AC current	Α	55
Short-circuit protection					
	High fault		Chart airquit aurrant	ĿΛ	100
			Short circuit current Fuse rating	kA A	100 100
			Fuse class	A	J
	Standard fault				-
			Short circuit current	kA	5
			Fuse rating	А	150
Ambient conditions					
Temperature					
	Operating temperatur	e		°C	50
			min max	°C °C	-50 70
	Storage temperature		Παλ	0	10
			min	°C	-60
			max	°Č	80
Max altitude				m	3000
Resistance & Protection	n				
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	
	CCC
	cULus
	EAC
ETIM classification	



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ETIM 8.0

EC000066 -Power contactor, AC switching