



Product designation			Power contactor
Product type designation			BFS38
Contact characteristics			
Number of poles		Nr.	3
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		А	56
Operational current le			
'	AC-1 (≤40°C)	А	56
	AC-1 (≤40°C) with 16mm ² wire and fork end		60
	AC-1 (≤55°C)	Ă	45
	AC-1 (≤55°C) with 16mm ² wire and fork end	luaA	48
	AC-1 (≤70°C)	Ă	40
	AC-1 (≤70°C) with 16mm ² wire and fork end		42
	AC-3 (≤440V ≤55°C)	Ă	38
	AC-4 (400V)	А	15.5
Rated operational power AC-3 (T≤55°C)			
	230V	kW	11
	400V	kW	18.5
	415V	kW	18.5
	440V	kW	18.5
	500V	kW	20
	690V	kW	22
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 wit			
	≤24V	А	35
	48V	A	30
	75V	A	23
	110V	A	8
	220V	А	_
IEC max current le in DC1 with L/R ≤ 1ms wit			
	≤24V	А	36
	48V	A	34
	75V	A	29
	110V	A	32
	220V	A	4
IEC max current le in DC1 with L/R ≤ 1ms wit		- •	
	≤24V	А	36
	=27 V		50



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24VDC, 2NO+2NC AUXILIARY CONTACT

	48V	А	34
	75V	А	33
	110V	А	34
	220V	A	30
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	А	36
	48V	A	34
	48V 75V	A	33
	110V	A	34
IFO menu summent le la DOS DOS with L/D < 45mm with 4 meters in enviro	220V	A	38
IEC max current le in DC3-DC5 with L/R \leq 15ms with 1 poles in series	-0 U (.
	≤24V	A	24
	48V	А	20
	75V	А	17
	110V	А	2,5
	220V	A	_
IEC max current le in DC3-DC5 with L/R \leq 15ms with 2 poles in series			
	≤24V	А	28
	48V	А	25
	75V	А	22
	110V	А	18
	220V	А	3
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
·	≤24V	А	32
	48V	A	28
	75V	A	28
	110V	A	23
	220V	A	25
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	220 V	~	20
	≤24V	۸	22
	≤24V 48V	A	32
		A	28
	75V	A	28
	110V	A	23
	220V	A	15
Short-time allowable current for 10s (IEC/EN60947-1)		A	320
Protection fuse			
	gG (IEC)	А	63
	aM (IEC)	Α	40
Making capacity (RMS value)		А	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
Tightoning torque for terminale	70-3	٧V	2.0
Tightening torque for terminals		Nime	2.5
	min	Nm	2.5
	max	Nm	3
	min	Ibin	1.8
	max	Ibin	2.2
Tightoning torque for coil terminal			

Tightening torque for coil terminal



		min	Nm	0.8
		max	Nm	1
		min	lbin	0.8
		max	lbin	0.74
lax number of wires	s simultaneously connectable		Nr.	2
conductor section				
	AWG/Kcmil			C
	Elevible w/e lug conductor costion	max		6
	Flexible w/o lug conductor section	min	mm²	2.5
		max	mm²	16
	Flexible c/w lug conductor section	Παλ		10
		min	mm²	1
		max	mm²	10
	Flexible with insulated spade lug condu			
		min	mm²	1
		max	mm²	10
Power terminal prote	ection according to IEC/EN 60529			IP20 when
•				properly wired
Cable stripping lengl	nt			
		main circuit	mm	0
		command circuit	mm	0
An objective of the other opening of the other open		auxiliary circuit	mm	0
Aechanical features Operating position				
operating position		normal		Vertical plan
		allowable		±30°
Fixing		anonabio		Screw / DIN ra 35mm
Neight			g	554
Auxiliary contact cha	racteristics		J	
Type of contact				0
Thermal current Ith			А	0
EC/EN 60947-5-1 d	esignation			A600 - Q600
Operating current AC	215			
		230V	А	3
		400V	А	1.9
-		500V	A	1.4
Operating current DO	212			_
		24V	Α	0
		48V	A	0
		60V	A	0
				0
		125V	A	
		220V	А	0
Operating current D0	213	220V 600V	A A	0 0
Operating current D(213	220V 600V 125V	A A A	0 0 0.55
	213	220V 600V	A A	0 0
Operating current DO	C13	220V 600V 125V	A A A A	0 0 0.55 0.1
	C13	220V 600V 125V	A A A	0 0 0.55

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		rated load mechanical load	cycles cycles	1400000 20000000
EMC compatibility				yes
Electrical characteristic				
Operating current DC1	3	050) (0.07
		250V	A	0.27
		440V 500V	A A	0.15 0.13
AC coil operating		500 V	A	0.13
AC operating voltage				
no operating vehage	of 50/60Hz coil powered at 50Hz			
	drop-out			
		max	%Us	0
DC coil operating				
DC rated control voltage	ge		V	24
DC operating voltage				
	pick-up			
		min	%Us	70
		max	%Us	125
	drop-out		0/11-	10
		min	%Us %Us	10 40
Average coil consump	tion <20°C	max	%05	40
Average con consump		in-rush	W	5.4
		holding	Ŵ	5.4
Max cycles frequency		lioiding		0.1
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us co	ontrol			
	in AC			
	Closing NO			
		min	ms	8
		max	ms	24
	Opening NO	min	-	F
		min max	ms	5 15
	Closing NC	IIIdA	ms	15
		min	ms	9
		max	ms	20
	Opening NC			
		min	ms	9
		max	ms	17
	in DC			
	Closing NO			
		min	ms	54
		max	ms	66
	Opening NO	min	ma	14
		min max	ms ms	14
	Closing NC	Πdλ	113	. /
		min	ms	0
		max	ms	0
	Opening NC			
		min	ms	0

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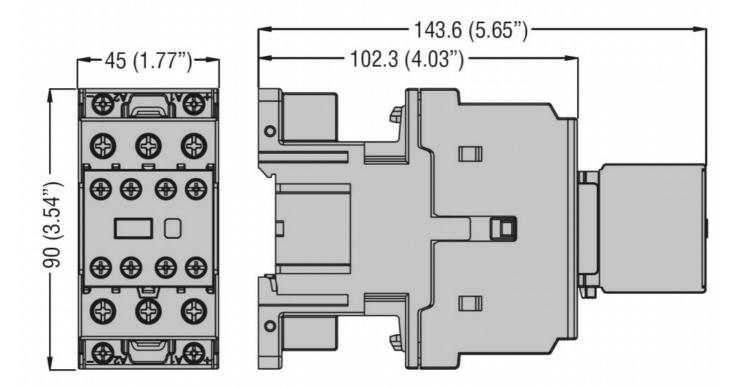
		max	ms	0
UL technical data				
Rated operational vo	oltage AC (UL)		V	600
Full-load current (FL	A) for three-phase AC motor			
		at 480V	А	40
		at 600V	А	32
Yielded mechanical	performance			
	for single-phase AC motor			
		110/120V	HP	3
		230V	HP	7.5
	for three-phase AC motor			
	·	200/208V	HP	10
		220/230V	HP	15
		460/480V	HP	30
		575/600V	HP	30
General USE				
	Contactor			
		AC current	А	55
Short-circuit protect	ion fuse 600V			
enert energie protoot	High fault			
	ingiriaan	Short circuit current	kA	100
		Fuse rating	A	100
		Fuse class	/	J
	Standard fault			0
	Standard ladit	Short circuit current	kA	5
		Fuse rating	A	150
Contact rating of au	xiliary contacts according to UL	T use rating	~	A600 - Q600
Ambient conditions				A000 - Q000
Temperature				
remperature	Operating temperature			
	Operating temperature	min	°C	-50
		min	°C	-50 70
	Otomo no to man construint	max	U	70
	Storage temperature		° ^	60
		min	°C °C	-60
NA		max	°C	80
Max altitude			m	3000
Resistance & Protect				â
Impact resistance				0
Vibration resistance				0
Special thermic trea	tments			0
Pollution degree				3
Resistance to flame				0
Flame retardant acc	cording to UL94			0
Dimensions				

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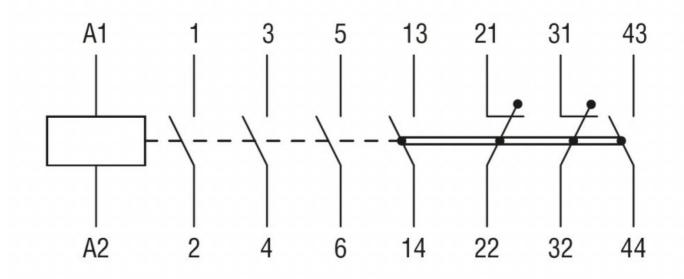
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THREE-POLE SAFETY CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 38A, DC COIL, 24VDC, 2NO+2NC AUXILIARY CONTACT



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		
IEC/EN/BS 60947-5-1		
UL 60947-1		
UL 60947-4-1		

Certificates

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UL listed for USA and Canada

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching