



Product designation			Power contactor
Product type designation			BFS32
Contact characteristics		N.I.	^
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency	min	⊔⊸	25
	min	Hz Hz	25 400
IEC Conventional free air thermal current Ith	max	A	56
Operational current le			50
Operational current le	AC-1 (≤40°C)	Α	56
	AC-1 (≤40°C) with 16mm² wire and fork end		0
	AC-1 (≤40 C) with formit wife and lock end AC-1 (≤55°C)	A	45
	AC-1 (≤55°C) with 16mm² wire and fork end		0
	AC-1 (≤55 C) with formit wire and lock end AC-1 (≤70°C)	A	40
	AC-1 (≤70°C) with 16mm² wire and fork end		0
	AC-3 (≤440V ≤55°C)	A	32
	AC-4 (400V)	Α	13.5
Rated operational power AC-3 (T≤55°C)	()		
1 1 ( )	230V	kW	8.8
	400V	kW	16
	415V	kW	17
	440V	kW	17
	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 with	1 poles in series		
	≤24V	Α	30
	48V	Α	26
	75V	Α	22
	110V	Α	8
	220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with			
	≤24V	Α	32
	48V	Α	32
	75V	Α	28
	110V	Α	25
<del></del>	220V	Α	3
IEC max current le in DC1 with L/R ≤ 1ms with			
	≤24V	Α	32



	48V	Α	32
	75V	Α	32
	110V	Α	27
	220V	Α	23
EC max current le in DC1 with L/R ≤ 1ms with 4 poles in series	2201	,,	
Lo max danencie in Bot with Ent = mio with 4 poleo in series	≤24V	Α	_
	48V	A	_
	75V	A	_
	110V	A	_
	220V	A	_
IEC may current to in DC2 DC5 with L/B < 15mg with 1 polos in parion	220 V	^	
EC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series	<0.417	۸	20
	≤24V	A	20
	48V	A	17
	75V	Α	15
	110V	A	2,5
	220V	Α	
EC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	Α	25
	48V	Α	22
	75V	Α	20
	110V	Α	15
	220V	Α	3
EC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	≤24V	Α	30
	48V	Α	28
	75V	Α	28
	110V	Α	20
	220V	Α	23
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
·	≤24V	Α	_
	48V	Α	_
	75V	Α	_
	110V	Α	_
	220V	Α	_
Short-time allowable current for 10s (IEC/EN60947-1)		A	320
Protection fuse			020
	gG (IEC)	Α	63
	aM (IEC)	A	32
Making capacity (RMS value)	aw (ILO)	A	320
		A	320
Breaking capacity at voltage	4.40\/	^	050
	440V	A	256
	500V	A	240
	690V	A	192
Resistance per pole (average value)		mΩ	2
Power dissipation per pole (average value)			
	Ith	W	6
	AC-3	W	2
Tightening torque for terminals			
	min	Nm	2.5
	max	Nm	3
	min	lbin	1.8
	max	lbin	2.2
Tightening torque for coil terminal			

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			Nine	0.0
		min	Nm Nm	0.8 1
		max min	lbin	0.8
		max	lbin	0.74
Max number of wires	simultaneously connectable	IIIdx	Nr.	2
Conductor section	simultaneously connectable		141.	
onadotor occion	AWG/Kcmil			
		max		6
	Flexible w/o lug conductor section			
	Č	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	1		
		min	mm²	1
		max	mm²	10
Power terminal protec	ction according to IEC/EN 60529			IP20 when
	alon decording to 120/214 00020			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail
Maight				35mm
Weight	actoristics		g	424
Auxiliary contact chara Type of contact	acteristics			0
IEC/EN 60947-5-1 de:	eignation			A600 - Q600
Operating current AC1	•			A000 - Q000
Sperating current AC	13	230V	Α	3
		400V	A	1.9
		500V	A	1.4
Operating current DC1	12			
Operating current DC1	12	24V	Α	
Operating current DC	12	24V 48V	A A	0
Operating current DC	12	24V 48V 60V	A A A	
Operating current DC	12	48V	Α	0 0
Operating current DC	12	48V 60V	A A	0 0 0
Operating current DC <sup>*</sup>	12	48V 60V 125V	A A A	0 0 0 0
		48V 60V 125V 220V	A A A	0 0 0 0
		48V 60V 125V 220V	A A A	0 0 0 0
		48V 60V 125V 220V 600V	A A A A	0 0 0 0 0
Operating current DC1		48V 60V 125V 220V 600V	A A A A	0 0 0 0 0 0
Operating current DC1  Operations		48V 60V 125V 220V 600V	A A A A	0 0 0 0 0 0
Operating current DC1 Operations Mechanical life		48V 60V 125V 220V 600V	A A A A A	0 0 0 0 0 0 0
Operating current DC1 Operations Mechanical life Electrical life		48V 60V 125V 220V 600V	A A A A A Cycles	0 0 0 0 0 0 0 0 0 0.55 0.1
Operating current DC1 Operations Mechanical life Electrical life Safety related data Performance level B16		48V 60V 125V 220V 600V	A A A A A Cycles	0 0 0 0 0 0 0 0 0 0.55 0.1
Operating current DC1 Operations Mechanical life Electrical life Safety related data	13	48V 60V 125V 220V 600V	A A A A A Cycles	0 0 0 0 0 0 0 0 0 0.55 0.1
Operating current DC1 Operations Mechanical life Electrical life Safety related data	0d according to EN/ISO 13489-1	48V 60V 125V 220V 600V 125V 600V	A A A A A Cycles cycles	0 0 0 0 0 0 0 0 0.55 0.1 20000000 1600000
Operating current DC1 Operations Mechanical life Electrical life Safety related data Performance level B10 EMC compatibility	13 Od according to EN/ISO 13489-1	48V 60V 125V 220V 600V 125V 600V	A A A A A Cycles cycles	0 0 0 0 0 0 0 0.55 0.1 20000000 1600000
Operating current DC1 Operations Mechanical life Electrical life Safety related data Performance level B16	13 Od according to EN/ISO 13489-1	48V 60V 125V 220V 600V 125V 600V	A A A A A Cycles cycles	0 0 0 0 0 0 0 0 0 0.55 0.1 20000000 1600000 1600000 20000000





		0501/	•	0.07
		250V 440V	A A	0.27 0.15
		500V	A	0.13
AC coil operating		3331	7.	0.10
Rated AC voltage at 50	0/60Hz		V	230
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up		0/11	
		min	%Us %Us	80 110
	drop-out	max	/ <sub>0</sub> US	110
	arop out	min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	85
		max	%Us	110
	drop-out	•	0/11-	20
		min	%Us	20
AC average coil consu	umntion at 20°C	max	%Us	55
AC average con consu	of 50/60Hz coil powered at 50Hz			
	of 30/00112 coll powered at 30112	in-rush	VA	75
		holding	VA	9
	of 50/60Hz coil powered at 60Hz	<u> </u>		
	·	in-rush	VA	70
		holding	VA	6.5
	of 60Hz coil powered at 60Hz			
		in-rush	VA	75
D:	40000 FOLL	holding	VA	9
Dissipation at holding s DC coil operating	SZU*C 50HZ		W	2.5
DC operating voltage				
Do operating voltage	pick-up			
	pion ap	min	%Us	0
		max	%Us	0
	drop-out			
		min	%Us	0
		max	%Us	0
Average coil consump	tion ≤20°C			•
		in-rush	W	0
Max cycles frequency		holding	W	0
Mechanical operation			cycles/h	3600
Operating times			5y 0103/11	
Average time for Us co	ontrol			
<b>5</b>	in AC			
	Closing NO			
		min	ms	8
		max	ms	24
	Opening NO			_
		min	ms	5
	Closing NC	max	ms	15
	Closing NC			



			min	ms	9
			max	ms	20
	Openi	ng NC			
	Эрэ		min	ms	9
			max	ms	17
	in DC		παλ	1113	17
	Closin	a NO			
	Ciosii	ig NO	min	ms	0
					0
	Oneni	NO	max	ms	U
	Openi	ng NO			0
			min	ms	0
		NO	max	ms	0
	Closin	ig NC			
			min	ms	0
			max	ms	0
	Openi	ng NC			
			min	ms	0
			max	ms	0
UL technical data					
Rated operational volta				V	600
Full-load current (FLA)	for three-phase AC motor				
			at 480V	Α	27
			at 600V	Α	27
Yielded mechanical pe	erformance				
	for single-phase AC motor				
			110/120V	HP	3
			230V	HP	7.5
	for three-phase AC motor				
	ринести		200/208V	HP	10
			220/230V	HP	10
			460/480V	HP	20
			575/600V	HP	25
General USE			010,0001	• • • •	
Ochoral OOL	Contactor				
	Contactor		AC current	Α	55
Short-circuit protection	tugo 600\/		AC current		
Short-circuit protection					
	High fault		Ohant sinssite same	Ι - Λ	100
			Short circuit current	kA	100
			Fuse rating	Α	100
	0		Fuse class		J
	Standard fault		01 4 1 1		_
			Short circuit current	kA	5
			Fuse rating	Α	125
	ary contacts according to UL				A600 - Q600
Ambient conditions					
Temperature					
	Operating temperature				
			min	°C	-50
			max	°C	70
	Storage temperature				
			min	°C	-60
			max	°C	80
Max altitude				m	3000
Resistance & Protection	on				

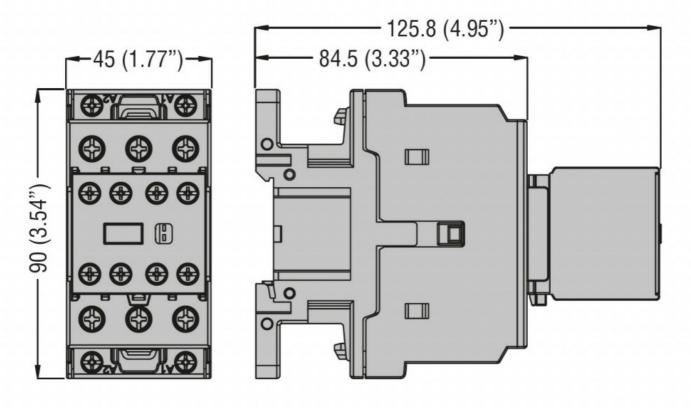


**ENERGY AND AUTOMATION** 

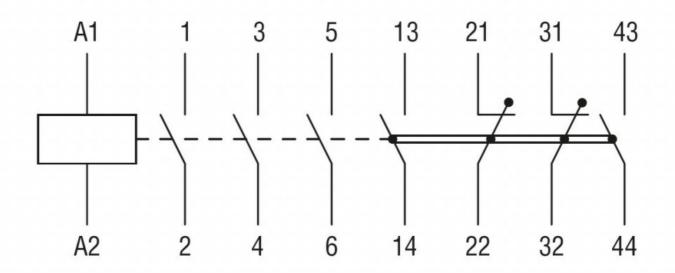
THREE-POLE SAFETY CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 32A, AC COIL 50/60HZ, 230VAC, 2NO+2NC AUXILIARY CONTACT

Impact resistance	0
Vibration resistance	0
Special thermic treatments	0
Pollution degree	3
Resistance to flame (GWT)	0
Flame retardant according to UL94	0

### Dimensions



### Wiring diagrams



### Certifications and compliance

Compliance

CSA C22.2 n° 60947-1



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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

UL listed for USA and Canada

ETIM classification

**ETIM 8.0** 

EC000066 -Power contactor, AC switching