



Product designation			Power contactor
Product type designation			BFS32
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		Α	56
Operational current le			
•	AC-1 (≤40°C)	А	56
	AC-1 (≤40°C) with 16mm² wire and fork end	lugA	0
	AC-1 (≤55°C)	Ă	45
	AC-1 (≤55°C) with 16mm ² wire and fork end		0
	AC-1 (≤70°C)	Ă	40
	AC-1 (≤70°C) with 16mm ² wire and fork end		0
	, AC-3 (≤440V ≤55°C)	Ă	32
	AC-4 (400V)	А	13.5
Rated operational power AC-3 (T≤55°C)	· · · ·		
	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	А	30
	48V	А	26
	75V	А	22
	110V	А	8
	220V	А	_
IEC max current le in DC1 with L/R ≤ 1ms with	1 2 poles in series		
	≤24V	А	32
	48V	А	32
	75V	А	28
	110V	А	25
	220V	А	3
IEC max current le in DC1 with L/R ≤ 1ms with	n 3 poles in series		
	≤24V	А	32

ENERGY AND AUTOMATION

BFS3222A230 THREE-POLE SAFETY CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 32A, AC COIL 50/60HZ, 230VAC, 2NO+2NC AUXILIARY CONTACT

	48V	А	32
	75V	A	32
	110V	A	27
	220V	A	23
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series	220 V	Λ	20
	≤24V	А	
	48V	A	_
	48V 75V	A	_
	110V	A	_
	220V	A	-
IFC may autrent to in DC2 DC5 with L/D < 15mg with 1 palagin pariog	2200	A	_
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 1 poles in series	<2417	^	20
	≤24V	A	20
	48V	A	17
	75V	A	15
	110V	A	2,5
	220V	A	-
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 2 poles in series		-	
	≤24V	A	25
	48V	А	22
	75V	А	20
	110V	А	15
	220V	А	3
IEC max current le in DC3-DC5 with L/R \leq 15ms with 3 poles in series			
	≤24V	А	30
	48V	А	28
	75V	А	28
	110V	А	20
	220V	Α	23
IEC max current le in DC3-DC5 with L/R \leq 15ms with 4 poles in series			
	≤24V	А	_
	48V	А	_
	75V	А	_
	110V	А	-
	220V	А	-
Short-time allowable current for 10s (IEC/EN60947-1)		А	320
Protection fuse			
	gG (IEC)	А	63
	aM (IEC)	А	32
Making capacity (RMS value)	•	А	320
Breaking capacity at voltage			
	440V	А	256
	500V	А	240
	690V	А	192
Resistance per pole (average value)		mΩ	2
Power dissipation per pole (average value)			
· · · · · · · · · · · · · · · · · · ·	lth	W	6
	AC-3	W	2
Tightening torque for terminals			
	min	Nm	2.5
	max	Nm	3
	min	Ibin	1.8
	max	Ibin	2.2
Tightoning targue for coil terminal	Παλ	1011	<u> </u>

Tightening torque for coil terminal



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		min	Nim	0.8
		min	Nm Nm	0.8 1
		max min	Ibin	0.8
			Ibin	0.8 0.74
lov number of wires		max	Nr.	2
	simultaneously connectable		INF.	2
onductor section				
	AWG/Kcmil			C
		max		6
	Flexible w/o lug conductor section			0.5
		min	mm²	2.5
		max	mm²	16
	Flexible c/w lug conductor section			4
		min	mm²	1
	-	max	mm²	10
	Flexible with insulated spade lug conductor section		2	
		min	mm²	1
		max	mm²	10
ower terminal prote	ection according to IEC/EN 60529			IP20 when
-	-			properly wired
lechanical features				
perating position				
		normal		Vertical plan
		allowable		±30°
ixing				Screw / DIN ra 35mm
Veight			g	424
uxiliary contact cha	racteristics		J	
ype of contact				0
EC/EN 60947-5-1 d	esignation			A600 - Q600
perating current AC				
		230\/	Δ	3
		230V 400V	A A	3 1 9
		400V	А	1.9
		400V 500V	A A	1.9 1.4
Operating current DC		400V 500V 24V	A A A	1.9 1.4 0
		400V 500V 24V 48V	A A A A	1.9 1.4 0 0
		400V 500V 24V 48V 60V	A A A A	1.9 1.4 0 0 0
		400V 500V 24V 48V 60V 125V	A A A A A A	1.9 1.4 0 0 0 0
		400V 500V 24V 48V 60V 125V 220V	A A A A A A A	1.9 1.4 0 0 0 0 0 0
Operating current DC	C12	400V 500V 24V 48V 60V 125V	A A A A A A	1.9 1.4 0 0 0 0
Operating current DC	C12	400V 500V 24V 48V 60V 125V 220V 600V	A A A A A A A	1.9 1.4 0 0 0 0 0 0
Operating current DC	C12	400V 500V 24V 48V 60V 125V 220V 600V 125V	A A A A A A A A	1.9 1.4 0 0 0 0 0 0 0 0 0 0 0
perating current DC	C12	400V 500V 24V 48V 60V 125V 220V 600V	A A A A A A A	1.9 1.4 0 0 0 0 0 0
pperating current DC	C12	400V 500V 24V 48V 60V 125V 220V 600V 125V	A A A A A A A A A A	1.9 1.4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Operating current DC Operating current DC Operations	C12	400V 500V 24V 48V 60V 125V 220V 600V 125V	A A A A A A A A Cycles	1.9 1.4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Operating current DC Operating current DC Operations Nechanical life Iectrical life	C12	400V 500V 24V 48V 60V 125V 220V 600V 125V	A A A A A A A A A A	1.9 1.4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	212	400V 500V 24V 48V 60V 125V 220V 600V 125V	A A A A A A A A Cycles	1.9 1.4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Operating current DC Operating current DC Operations Nechanical life Nectrical life	C12	400V 500V 24V 48V 60V 125V 220V 600V 125V	A A A A A A A A Cycles	1.9 1.4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
operating current DC operating current DC operations lechanical life lectrical life afety related data	212	400V 500V 24V 48V 60V 125V 220V 600V 125V	A A A A A A A A Cycles	1.9 1.4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Operating current DC Operating current DC Operations Nechanical life Nectrical life	212	400V 500V 24V 48V 60V 125V 220V 600V 125V 600V	A A A A A A A A Cycles cycles	1.9 1.4 0 0 0 0 0 0 0 0 0 0 0 0 0
Operating current DC Operating current DC Operations Iechanical life Iectrical life afety related data	212	400V 500V 24V 48V 60V 125V 220V 600V 125V 600V	A A A A A A A A Cycles cycles	1.9 1.4 0 0 0 0 0 0 0 0 0 0 0 0 0

BFS3222A230

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		250V	A	0.27
		230V 440V	A	0.15
		500V	A	0.13
AC coil operating				
Rated AC voltage at 50	D/60Hz		V	230
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up	min	%Us	80
		max	%Us %Us	110
	drop-out	Пах	/000	110
		min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	85
		max	%Us	110
	drop-out			
		min	%Us	20
	1	max	%Us	55
AC average coil consu				
	of 50/60Hz coil powered at 50Hz	in ruch	VA	75
		in-rush holding	VA VA	75 9
	of 50/60Hz coil powered at 60Hz	noiding	٧٨	9
		in-rush	VA	70
		holding	VA	6.5
	of 60Hz coil powered at 60Hz			
	•	in-rush	VA	75
		holding	VA	9
Dissipation at holding :	≤20°C 50Hz		W	2.5
DC coil operating				
DC operating voltage				
	pick-up		0/11	0
		min	%Us	0
	drop out	max	%Us	0
	drop-out	min	%Us	0
		max	%Us	0
Average coil consump	tion ≤20°C	max	/000	•
		in-rush	W	0
		holding	W	0
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us co				
	in AC			
	Closing NO			
		min	ms	8
		max	ms	24
	Opening NO		100 0	F
		min	ms	5
	Closing NC	max	ms	15

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BFS3222A230



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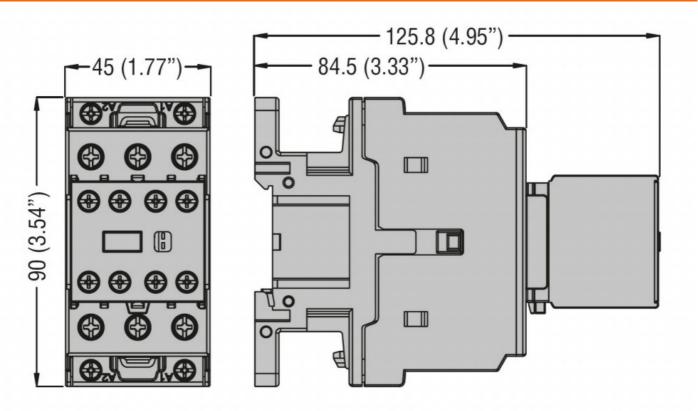
		min	ms	9
		max	ms	20
	Opening NC			
		min	ms	9
		max	ms	17
in DC				
	Closing NO			
		min	ms	0
		max	ms	0
	Opening NO	min		0
		min	ms	0
	Closing NC	max	ms	0
	Closing NC	min	ms	0
		max	ms	0
	Opening NC	max	1113	0
	opening No	min	ms	0
		max	ms	0
UL technical data				-
Rated operational voltage AC (UL)			V	600
Full-load current (FLA) for three-phase AC	motor			
		at 480V	А	27
		at 600V	А	27
Yielded mechanical performance				
for single-phase A	C motor			
		110/120V	HP	3
		230V	HP	7.5
for three-phase A	C motor			
		200/208V	HP	10
		220/230V	HP	10
		460/480V	HP	20
		575/600V	HP	25
General USE				
Contactor				
		AC current	A	55
Short-circuit protection fuse, 600V				
High fault				
		Short circuit current	kA	100
		Fuse rating	A	100
Chandard fault		Fuse class		J
Standard fault		Short circuit current	kA	5
		Fuse rating	кА А	5 125
Contact rating of auxiliary contacts accordi	na to LII	T use rating	Λ	A600 - Q600
Ambient conditions				
Temperature				
Operating temperating	ature			
eponanig tempon		min	°C	-50
		max	°Č	70
Storage temperate	ure			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protection				



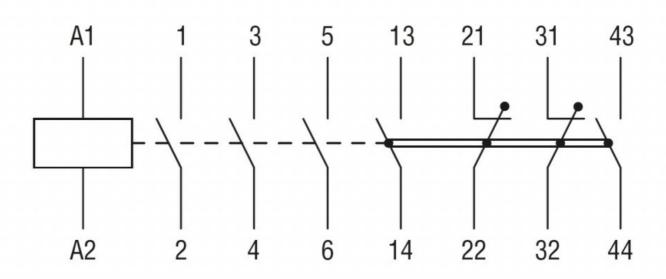
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Impact resistance	0
Vibration resistance	0
Special thermic treatments	0
Pollution degree	3
Resistance to flame (GWT)	0
Flame retardant according to UL94	0
Dimensions	

Dimension



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	
	cULus
	UL listed for USA and Canada

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching

BFS3222A230