



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 <sup>2</sup> wire and fork end	lugA	60
	AC-1 (≤55°C)	А	45
	AC-1 (≤55°C) with 16mm² wire and fork end	lugA	48
	AC-1 (≤70°C)	А	40
	AC-1 (≤70°C) with 16mm² wire and fork end	lugA	42
	AC-3 (≤440V ≤55°C)	А	38
	AC-4 (400V)	Α	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 $L/R \le 1$ ms with	•		
	≤24V	Α	35
	48V	Α	30
	75V	Α	23
	110V	Α	8
	220V	Α	-
IEC max current le in DC1 with $L/R \le 1$ ms with			
	≤24V	Α	36
	48V	Α	34
	75V	Α	29
	110V	А	32
	220V	Α	4
IEC max current le in DC1 with $L/R \le 1$ ms with			
	≤24V	Α	36



#### **BFS3822A110** THREE-POLE SAFETY CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 38A, AC COIL 50/60HZ, 110VAC, 2NO+2NC AUXILIARY CONTACT

ENERGY AND AUTOMATION			
	40\/	^	24
	48V	A	34
	75V	A	33
	110V	A	34
	220V	A	30
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series			
	≤24V	А	36
	48V	А	34
	75V	А	33
	110V	А	34
	220V	А	38
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in se			
	≤24V	А	24
	48V	A	20
	48V 75V	A	17
	110V	A	2,5
	. 220V	A	-
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 2 poles in se			
	≤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 se	eries		
·	≤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 $\leq$ 15ms with 4 poles in se		A	20
The max current is in DC3-DC5 with $L/R \leq 15$ ms with 4 poles in si		^	20
	≤24V	A	32
	48V	A	28
	75V	Α	28
	110V	A	23
	220V	A	15
Short-time allowable current for 10s (IEC/EN60947-1)		Α	320
Protection fuse			
	gG (IEC)	А	63
	aM (IEC)	А	40
Making capacity (RMS value)	· · ·	А	380
Breaking capacity at voltage			
	440V	А	304
	500V	A	240
	690V	A	192
Resistance per pole (average value)	030 V	mΩ	2
Power dissipation per pole (average value)		11152	۷
ruwer uissipation per pole (average value)	171	1.4.7	0
	lth	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



### BFS3822A110 THREE-POLE SAFETY CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 38A, AC COIL 50/60HZ, 110VAC, 2NO+2NC AUXILIARY CONTACT

Power terminal protection according to IEC/EN 60529 properly Cable stripping lenght main circuit mm 0 command circuit mm 0 auxiliary circuit mm 0 auxiliary circuit mm 0 Auxiliary circuit mm 0 Screw / Screw					
min         Ibin         0.8 max           Max number of wires simultaneously connectable         Nr.         2           Conductor section         max         6           Flexible w/o lug conductor section         min         mm²         16           Flexible c/w lug conductor section         min         mm²         1           Flexible c/w lug conductor section         min         mm²         1           Flexible with insulated spade lug conductor section         min         mm²         1           Flexible with insulated spade lug conductor section         min         mm²         1           Power terminal protection according to IEC/EN 60529         max         mm²         1           Power terminal protection according to IEC/EN 60529         main circuit         mm         0           Contrand circuit         mm         0         auxiliary circuit         m0         0           Mechanical features         g         423         5         5         5           Operating position         normal         Vertical allowable         430°         4600 - (           Thermal current lth         A         0         4600 - (         0         600/V         A         1.9         500/V         A         1.9			min	Nm	0.8
max         lbin         0.74           Alax number of wires simultaneously connectable         Nr.         2           Conductor section         max         6           Flexible w/o lug conductor section         min         mm²         6           Flexible w/o lug conductor section         min         mm²         16           Flexible c/w lug conductor section         min         mm²         1           Prevent terminal protection according to IEC/EN 60529         IP20 wh         IP20 wh           Coherant flexible with insulated spade lug conductor section         mm²         1           Prevent terminal protection according to IEC/EN 60529         IP20 wh         property           Cable stripping lenght         main circuit         mm         0           auxiliary circuit         mm         0         auxiliary circuit         mm           Operating position         normal         ±30°         Screw /         35mm           Weight         g         423         423         Mo0 -         600 - 0           Coperating current bC12         24V         A         0         3         400V         A         1.4           Operating current DC12         230V         A         3         400V         A			max	Nm	
fax number of wires simultaneously connectable       Nr.       2         Conductor section       max       6         Flexible w/o lug conductor section       min       mm²       2.5         max       mm²       16         Flexible c/w lug conductor section       min       mm²       1         reaction       normal       mm²       1         reaction       normal       vertical       1         reaction       normal       vertical       3         reaction       normal       vertical       3         reaction       normal       vertical       3			min		
AWG/Kcmil AWG/Kcmil AWG/Kcmil AWG/Kcmil Flexible w/o lug conductor section min mm² 2.5 max mm² 16 Flexible c/w lug conductor section flexible c/w lug conductor section flexible with insulated spade lug conductor section flexible stripping lenght flexib			max		
AWG/Kcmil         max         nmax         state           Flexible w/o lug conductor section         min         mmr         2.5           max         mmr         10           Flexible c/w lug conductor section         min         mmr         10           Flexible with insulated spade lug conductor section         min         mmr         10           Power terminal protection according to IEC/EN 60529         IP20 wh         property           Command circuit         mm         0         0           Acchanical features         min         mm         0           Acchanical features         strong         Strong         strong           Veight         g         423         strong           Veight         g         423         strong           Contact         0         0         adlowable         strong           Color tot         A         0         A         0		ultaneously connectable		Nr.	2
max         6           Flexible w/o lug conductor section         min         mma         mma         mma         mma         16           Flexible c/w lug conductor section         min         mma         1         mmax         mma         1           Flexible c/w lug conductor section         min         mma         1         mmax         mma         1           Flexible with insulated spade lug conductor section         min         mma         1         mmax         mma         1           rower terminal protection according to IEC/EN 60529         max         mm         1         1         mma         1					
Flexible w/o lug conductor section       min       mm²       2.5         max       mm²       16         Flexible c/w lug conductor section       min       mm²       1         max       mm²       1       max       mm²       1         Flexible with insulated spade lug conductor section       min       mm²       1       max       mm²       1         rower terminal protection according to IEC/EN 60529       max       mm²       1       P20 wh       property         vable stripping lenght       max       mm       0       0       auxiliary circuit       mm       0         fechanical features       ocmmand circuit       mm       0       auxiliary circuit       mm       0         fechanical features       ocmmand circuit       mm       0       accrew /       35mm         Vegit       g       423       423       3       ad00 < 4		AWG/Kcmil			
min         mm²         2.5 max         mm²         16           Flexible c/w lug conductor section         min         mm²         1           Flexible with insulated spade lug conductor section         min         mm²         1           Flexible with insulated spade lug conductor section         min         mm²         1           Prover terminal protection according to IEC/EN 60529         IP20 wh         property           Stable stripping lenght         mm         0         1           Command circuit         mm         0         1           Accharical features         mm         0         1           Operating position         normal         Vertical         35m           Weight         g         423         35mm           utiliary contact characteristics         g         423           wallary contact characteristics         0         1           Sperating current AC15         230V         A         3           C/EN 6047-5-1 designation         A600 - C         0         0           C/EN 6047-5-1 designation         A600 - C         0         14           Diperating current DC12         24V         A         0           GOW         A         0			max		6
max         mm2         16           Flexible c/w lug conductor section         min         mm2         1           max         mm2         10         10           Flexible with insulated spade lug conductor section         min         mm2         1           max         mm2         10         10         10           Prover terminal protection according to IEC/EN 60529         main circuit         mm         0           command circuit         mm         0         0         10           Acchanical features         mm         0         0         10           Acchanical features         mm         0         10         10           Acchanical features         mm         0         10         10         10           Acchanical features         mm         0         10		-lexible w/o lug conductor section			0.5
Flexible c/w lug conductor section       min       mm²       1         max       mm²       10         Flexible with insulated spade lug conductor section       min       mm²       1         max       mm²       1       10         Power terminal protection according to IEC/EN 60529       IP20 wh       property         sable stripping lenght       main circuit       mm       0         command circuit       mm       0       auxiliary circuit       mm       0         fechanical features       mormal       Vertical       vertical       430°       0         fereight       g       423       35mm       35mm       35mm         veight       g       423       35mm       35mm       35mm         veight       g       423       35mm       36mm       400        44					
min         mm2         1           Flexible with insulated spade lug conductor section         min         mm2         1           max         mm2         1         mm2         1           rower terminal protection according to IEC/EN 60529         min circuit         mm         0           rower terminal protection according to IEC/EN 60529         main circuit         mm         0           command circuit         mm         0         0         0           command circuit         mm         0         0         0           command circuit         mm         0         0         0         0           command circuit         mm         0		Toxible of the conductor costion	max	11111-	10
max         mm²         10           Flexible with insulated spade lug conductor section         min         mm²         1           max         mm²         10         max         mm²         10           rower terminal protection according to IEC/EN 60529         iP20 wh properly         iP20 wh properly         iP20 wh properly           cable stripping lenght         main circuit         mm         0           command circuit         mm         0           command circuit         mm         0           command circuit         mm         0           dechanical features			min	mm <sup>2</sup>	1
Flexible with insulated spade lug conductor section       min       mm²       1         max       mm²       10       IP20 wh         rower terminal protection according to IEC/EN 60529       main circuit       mm       0         sable stripping lenght       main circuit       mm       0         command circuit       mm       0       0         techanical features       mm       0       0         perating position       normal       Vertical allowable       ±30°         tixing       g       423       35mm         Veight       g       423       35mm         Veight       g       423       4600 - 0         utiliary contact characteristics       0       0         perating current lth       A       0       600 - 0         perating current DC12       24V       A       0         Querter DC12       24V       A       0         Querter DC13       220V       A       0         Querter DC13       220V       A       0         Querter DC13       125V       A       0         Querter DC13       125V       A       0.55         Querter DC13       25V					
min       mm       mm <sup>2</sup> 1         ower terminal protection according to IEC/EN 60529       IP20 wh       property         iable stripping lenght       main circuit       mm       0         command circuit       mm       0       0         command circuit       mm       0       0         techanical features       mm       0       0         techanical features       normal       Vertical         allowable       ±30°       35mm         vising       Screw /       35mm         /eight       g       423         uxiliary contact characteristics       0         berrating current Ith       A       0         C/C/EN 60947-5-1 designation       A600 - 0         operating current AC15       230V       A       1.9         c/C/EN 60947-5-1 designation       A600 - 0       0       1.9         operating current DC12       24V       A       0         d/EOV       A       0       0       0         d/EOV       A       0       0       0       0         operating current DC12       24V       A       0       0         d/EOV       A       0	-	Elevible with insulated spade lug conduct		111111	10
maxmm²10P20 whP20 whpower terminal protection according to IEC/EN 60529P20 whproperlymain circuitmmable stripping lenghtmain circuitmmcommand circuitmm0auxiliary circuitmm0techanical featuresmorrnalVerticalallowable±30°screw /tixingg423wallary contact characteristicsg423wallary contact characteristics0hermal current lthA0EC/EN 60947-5-1 designationA600 - 0porating current DC1224VAAllawable1.9S00VA1.9S00VA0125VA0600VA0220VA0600VA0220VA0600VA0220VA0600VA0125VA0.55600VA0.1perating125VA0.1125VA0.1125VA0.1125VA0.1125VA0.1125VA0.1125VA0.1125VA0.1125VA0.1125VA0.1125VA0.1125VA0.1125VA125VA </td <td></td> <td>lexible with insulated space log conduct</td> <td></td> <td>mm<sup>2</sup></td> <td>1</td>		lexible with insulated space log conduct		mm <sup>2</sup>	1
ower terminal protection according to IEC/EN 60529       IP20 wh properly         sable stripping lenght       main circuit mm 0 command circuit mm 0 auxiliary circuit mm 0         dechanical features       morrnal allowable         operating position       normal allowable         ixing       Screw / 35mm         Vertical allowable       g         viring       g         vertical allowable       g         vertical 					
ower terminal protection according to TEC/EN 60529         property           able stripping lenght         main circuit mm 0           command circuit mm 0         auxiliary circuit mm 0           auxiliary circuit mm 0         auxiliary circuit mm 0           Acchanical features         normal         Vertical           allowable         ±30°         Screw /           xising         Screw /         35mm           Veight         g         423           williary contact characteristics         0           hermal current lth         A         0           EC/EN 60947-5-1 designation         A600 - 0           Operating current AC15         230V         A         3           400V         A         1.9         500V         A         1.4           Operating current DC12         24V         A         0         60V         A         0           220V         A         0         220V         A         0         220V         A         0           220V         A         0         0         220V         A         0           600V         A         0         220V         A         0         0           220V         A<			Παλ		IP20 when
Sable stripping lenght       main circuit       mm       0         command circuit       mm       0         auxiliary circuit       mm       0         Alechanical features       auxiliary circuit       mm       0         Operating position       normal       Vertical         allowable       ±30°       30°         ixing       Screw /       35mm         Veight       g       423         uxiliary contact characteristics       0         bermal current lth       A       0         CC/EN 60947-5-1 designation       A600 - 0         Operating current AC15       230V       A       3.         400V       A       1.9       500V       A       1.4         Operating current DC12       24V       A       0       60V       A       0         220V       A       0       60V       A       0       220V       A       0         220V       A       0       220V       A       0       220V       A       0         000V       A       0       220V       A       0       0       0         000V       A       0       600V <td< td=""><td>ower terminal protectio</td><td>n according to IEC/EN 60529</td><td></td><td></td><td>properly wired</td></td<>	ower terminal protectio	n according to IEC/EN 60529			properly wired
main circuit command circuit auxiliary circuitmm0dechanical features	able stripping lenght				
command circuit auxiliary circuitmm mm0dechanical featuresnormal allowableVertical allowablenormal allowableVertical allowable430°ixingScrew / 35mmVeight uxiliary contact characteristicsg423uxiliary contact characteristics0hermal current lthA0EC/EN 60947-5-1 designationA600 - 0Operating current AC15230VA1.9500VA1.4Operating current DC1224VA0220VA0220VA0600VA0125VA00600VA0000125VA0000125VA0.55600VA0.10125VA0.55600VA0.10125VA0.55600VA0.10125VA0.55600VA0.10125VA0.55600VA0.10125VA0.55600VA0.10125VA0.55600VA0.10125VA0.55600VA0.10125VA0.55600VA0.10125VA0.55600VA0.10101010101010 </td <td></td> <td></td> <td>main circuit</td> <td>mm</td> <td>0</td>			main circuit	mm	0
auxiliary circuit         mm         0           Acchanical features				mm	
Acchanical features       normal allowable       Vertical allowable         Deperating position       normal allowable       ±30°         sixing       Screw / 35mm         Veight       g       423         uxiliary contact characteristics       0         Thermal current lth       A       0         EC/EN 60947-5-1 designation       A600 - 0         Operating current AC15       230V       A       3         400V       A       1.9       500V       A       1.4         Operating current DC12       24V       A       0       60V       A       0         Deperating current DC12       24V       A       0       60V       A       0       220V       A       0         Operating current DC12       24V       A       0       60V       A       0       220V       A       0       220V       A       0       60V       A       0       220V       A       0       60V       A       0       220V       A       0       60V       A			auxiliary circuit	mm	
normal allowableVertical $\pm 30^{\circ}$ ixingScrew / 35mmVeightgviliary contact characteristicsyype of contact0hermal current lthA0EC/EN 60947-5-1 designationA600 - 0Deperating current AC15230VA230VA3400VA1.9500VA1.40500VA1.40220VA060VA0125VA0220VA0220VA0600VA00125VA0220VA0125VA0.55600VA0.10125VA0.55600VA0.10220VA0.1020000A0.1	echanical features		·		
allowable         ±30°           ixing         Screw / 35mm           Veight         g         423           uxiliary contact characteristics         0           hermal current lth         A         0           EC/EN 60947-5-1 designation         A600 - 0           Operating current AC15         230V         A         3           400V         A         1.9         500V         A         1.4           Operating current DC12         24V         A         0         60V         A         0           125V         A         0         125V         A         0         0         0           Operating current DC13         125V         A         0         0         0         0           0perating current DC13         125V         A         0         0         0         0           0perating current DC13         125V         A         0.55         00V         A         0.1	perating position				
Screw / 35mm           Veight         g         423           uxiliary contact characteristics         0           Thermal current lth         A         0           EC/EN 60947-5-1 designation         A600 - 0           Operating current AC15         230V         A         3           Operating current DC12         24V         A         0           Operating current DC13         220V         A         0           Operating current DC13         25V         A         0.55           Cov/V         A         0.1         25V         A         0.55           Cov/V         A         0.1         25V         A         0.55           Cov/V         A			normal		Vertical plan
Txing         35mm           Veight         g         423           vuxiliary contact characteristics         0           Thermal current lth         A         0           EC/EN 60947-5-1 designation         A600 - 0           Deperating current AC15         230V         A         3           400V         A         1.9         500V         A         1.4           Deperating current DC12         24V         A         0         60V         A         0           220V         A         0         1.25V         A         0         600V         A         0           Deperating current DC13         125V         A         0			allowable		±30°
Auxiliary contact characteristics         0           Thermal current lth         A         0           EC/EN 60947-5-1 designation         A600 - 0           Operating current AC15         230V         A         3           400V         A         1.9         500V         A         1.4           Operating current DC12         24V         A         0         48V         A         0           220V         A         0         220V         A         0         60V         A         0           220V         A         0         60V         A         0         220V         A         0           220V         A         0         220V         A         0         220V         A         0           220V         A         0         600V         A         0         220V         A         0           220V         A         0         5         600V         A         0.55         600V         A         0.1	xing				Screw / DIN ra 35mm
ype of contact         0           hermal current lth         A         0           EC/EN 60947-5-1 designation         A600 - 0           Operating current AC15         230V         A         3           400V         A         1.9         500V         A         1.4           Operating current DC12         24V         A         0         48V         A         0           20V         A         0         60V         A         0         125V         A         0           220V         A         0         600V         A         0         125V         A         0           Operating current DC13         125V         A         0         125V         A         0           0         600V         A         0         125V         A         0           0         600V         A         0         125V         A         0.55           00V         A         0.1         125V         A         0.55           00V         A         0.1         125V         A         0.55           00V         A         0.1         125V         A         0.55           00V	eight			g	423
hermal current lth         A         0           EC/EN 60947-5-1 designation         A600 - 0           Operating current AC15         230V         A         3           200V         A         1.9         500V         A         1.4           Operating current DC12         24V         A         0         48V         A         0           220V         A         0         48V         A         0         60V         A         0           220V         A         0         60V         A         0         220V         A         0           220V         A         0         125V         A         0         600V         A         0           Operating current DC13         125V         A         0         0         0         0           Operating current DC13         125V         A         0.55         600V         A         0.1           Operations         125V         A         0.55         600V         A         0.1	uxiliary contact charact	eristics			
EC/EN 60947-5-1 designation       A600 - 0         Operating current AC15       230V       A       3         400V       A       1.9       500V       A       1.4         Operating current DC12       24V       A       0       48V       A       0         48V       A       0       60V       A       0       125V       A       0         220V       A       0       600V       A       0       125V       A       0         Operating current DC13       125V       A       0       1       0       0       0       1       0       0       0       0       0       0       0       1       0       0	/pe of contact				0
230V         A         3           400V         A         1.9           500V         A         1.4           Dperating current DC12         24V         A         0           48V         A         0         60V         A         0           220V         A         0         220V         A         0           220V         A         0         220V         A         0           220V         A         0         220V         A         0           220V         A         0         600V         A         0           220V         A         0         600V         A         0           220V         A         0         600V         A         0           20perating current DC13         125V         A         0.55         600V         A         0.1           20perations         400         40.1         400	nermal current Ith			А	0
230V       A       3         400V       A       1.9         500V       A       1.4         Operating current DC12       24V       A       0         48V       A       0       60V       A       0         125V       A       0       220V       A       0         220V       A       0       600V       A       0         220V       A       0       600V       A       0         220V       A       0       600V       A       0         0       200V       A       0       0       0         0       0       0       0       0       0       0         0       00V       A       0.1       0       0       0         0       0       0       0       0       0       0       0         0       0       0       0       0       0       0       0       0         0       0       0       0       0       0       0       0       0         0       0       0       0       0       0       0       0       0	C/EN 60947-5-1 desiç	nation			A600 - Q600
400V       A       1.9         500V       A       1.4         Operating current DC12       24V       A       0         48V       A       0       48V       A       0         60V       A       0       125V       A       0         220V       A       0       0       0       0         0       600V       A       0       0       0         0       600V       A       0       0       0       0         0       20V       A       0       0       0       0       0       0         0       00V       A       0 <td>perating current AC15</td> <td></td> <td></td> <td></td> <td></td>	perating current AC15				
500V       A       1.4         Operating current DC12       24V       A       0         48V       A       0       60V       A       0         60V       A       0       125V       A       0         220V       A       0       600V       A       0         0       600V       A       0       600V       A       0         0       220V       A       0       600V       A       0         0       220V       A       0       600V       A       0         0       200V       A       0       0       0       0         0       200V       A       0.55       600V       A       0.1         0       200000       A       0.1       0       0       0         0       200000       A       0.1       0       0       0       0         0       200000       A       0.1       0       0       0       0       0         0       4       0       4       0.1       0       0       0       0       0       0       0       0       0       0 <td></td> <td></td> <td>230V</td> <td>А</td> <td>3</td>			230V	А	3
Operating current DC12         24V         A         0           48V         A         0         60V         A         0           60V         A         0         125V         A         0           220V         A         0         600V         A         0           220V         A         0         600V         A         0           Operating current DC13         125V         A         0.55         600V         A         0.1           Operations         cycles         200000			400V	А	1.9
24V       A       0         48V       A       0         60V       A       0         125V       A       0         220V       A       0         220V       A       0         600V       A       0         0perating current DC13       125V       A       0.55         600V       A       0.1       0         0perations       cycles       200000			500V	Α	1.4
48V       A       0         60V       A       0         125V       A       0         220V       A       0         220V       A       0         600V       A       0         0perating current DC13       125V       A       0.55         600V       A       0.1         0perations       cycles       200000	perating current DC12				
60V       A       0         125V       A       0         220V       A       0         220V       A       0         00perating current DC13       125V       A       0.55         600V       A       0.1         0perations       5       5       5         Mechanical life       cycles       200000				А	0
125V       A       0         220V       A       0         200V       A       0         00perating current DC13       125V       A       0.55         600V       A       0.1         00perations       cycles       200000				Α	0
220V         A         0           600V         A         0           Operating current DC13         125V         A         0.55           600V         A         0.1           Operations         cycles         200000				А	0
600V         A         0           Operating current DC13         125V         A         0.55           600V         A         0.1           Operations         cycles         200000					0
Operating current DC13         125V         A         0.55           600V         A         0.1           Operations         Cycles         200000					
125V         A         0.55           600V         A         0.1           Operations         cycles         200000			600V	А	0
600VA0.1perationscycles200000	perating current DC13				
perations lechanical life cycles 200000					
lechanical life cycles 20000			600V	А	0.1
•					
lootrigal life				-	20000000
Cycles 140000 Cafety related data	ectrical life			cycles	1400000

BFS3822A110



# THREE-POLE SAFETY CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 38A, AC COIL 50/60HZ, 110VAC, 2NO+2NC AUXILIARY CONTACT

		rated load mechanical load	cycles cycles	1400000 20000000
EMC compatibility				yes
Electrical characteristic				
Operating current DC1	3	0501/		0.07
		250V	A	0.27
		440V 500V	A A	0.15 0.13
AC coil operating		500 V	A	0.13
Rated AC voltage at 50	0/60Hz		V	110
AC operating voltage			•	
	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz pick-up			
	ριεκ-αρ	min	%Us	85
		max	%Us	110
	drop-out	max	/000	
	·	min	%Us	20
		max	%Us	55
AC average coil consu	imption at 20°C			
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	75
		holding	VA	9
	of 50/60Hz coil powered at 60Hz			
		in-rush	VA	70
	of COLLE apil powered at COLLE	holding	VA	6.5
	of 60Hz coil powered at 60Hz	in-rush	VA	75
		holding	VA VA	9
Dissipation at holding :	≤20°C 50Hz	noiding	W	2.5
DC coil operating				210
DC operating voltage				
	pick-up			
		min	%Us	0
		max	%Us	0
	drop-out			
		min	%Us	0
<u> </u>		max	%Us	0
Average coil consump	tion ≤20°C	1 I	147	0
		in-rush	W	0
Max cycles frequency		holding	W	0
Mechanical operation			cycles/h	3600
Operating times			0,000/11	
Average time for Us co	ontrol			
	in AC			
	Closing NO			
		min	ms	8

**BFS3822A110** The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding

BFS3822A110



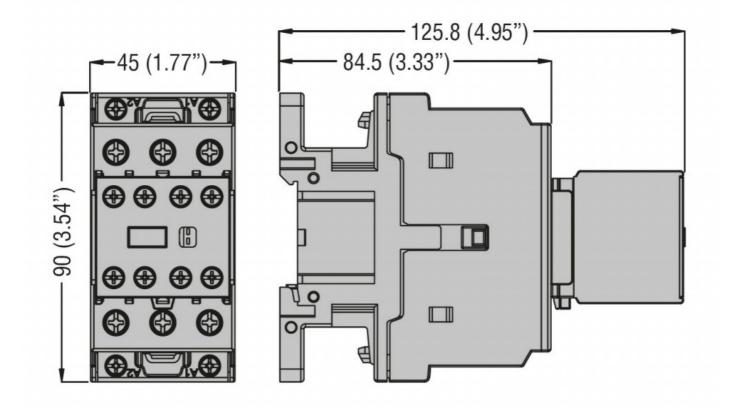
THREE-POLE SAFETY CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 38A, AC COIL 50/60HZ, 110VAC, 2NO+2NC AUXILIARY CONTACT

			max	ms	24
		Opening NO	_		
			min	ms	5
			max	ms	15
		Closing NC	min	me	9
			max	ms ms	9 20
		Opening NC	max	1115	20
		Opening NC	min	ms	9
			max	ms	17
	in DC				
	-	Closing NO			
		0	min	ms	0
			max	ms	0
		Opening NO			
			min	ms	0
			max	ms	0
		Closing NC			
			min	ms	0
			max	ms	0
		Opening NC			_
			min	ms	0
			max	ms	0
UL technical data				M	600
Rated operational volta				V	600
Full-load current (FLA)	for three-phase AC mo	Jtor	ot (190)/	٨	40
			at 480V	A	40
			2t 600V	~ ~	20
Violded mechanical pe	rformanco		at 600V	A	32
Yielded mechanical pe		motor	at 600V	A	32
Yielded mechanical pe	erformance for single-phase AC r	motor			
Yielded mechanical pe		motor	110/120V	HP	3
Yielded mechanical pe	for single-phase AC r				
Yielded mechanical pe			110/120V 230V	HP HP	3 7.5
Yielded mechanical pe	for single-phase AC r		110/120V 230V 200/208V	HP HP HP	3 7.5 10
Yielded mechanical pe	for single-phase AC r		110/120V 230V	HP HP	3 7.5
Yielded mechanical pe	for single-phase AC r		110/120V 230V 200/208V 220/230V	HP HP HP HP	3 7.5 10 15
Yielded mechanical pe	for single-phase AC r		110/120V 230V 200/208V 220/230V 460/480V	HP HP HP HP	3 7.5 10 15 30
	for single-phase AC r		110/120V 230V 200/208V 220/230V 460/480V	HP HP HP HP	3 7.5 10 15 30
	for single-phase AC r		110/120V 230V 200/208V 220/230V 460/480V	HP HP HP HP	3 7.5 10 15 30
	for single-phase AC r for three-phase AC m Contactor		110/120V 230V 200/208V 220/230V 460/480V 575/600V	HP HP HP HP HP	3 7.5 10 15 30 30
General USE	for single-phase AC r for three-phase AC m Contactor		110/120V 230V 200/208V 220/230V 460/480V 575/600V AC current	HP HP HP HP HP	3 7.5 10 15 30 30 55
General USE	for single-phase AC r for three-phase AC m Contactor		110/120V 230V 200/208V 220/230V 460/480V 575/600V AC current	HP HP HP HP HP A	3 7.5 10 15 30 30 55 100
General USE	for single-phase AC r for three-phase AC m Contactor		110/120V 230V 200/208V 220/230V 460/480V 575/600V AC current Short circuit current Fuse rating	HP HP HP HP HP	3 7.5 10 15 30 30 55 55
General USE	for single-phase AC r for three-phase AC m Contactor n fuse, 600V High fault		110/120V 230V 200/208V 220/230V 460/480V 575/600V AC current	HP HP HP HP HP A	3 7.5 10 15 30 30 55 100
General USE	for single-phase AC r for three-phase AC m Contactor		110/120V 230V 200/208V 220/230V 460/480V 575/600V AC current Fuse rating Fuse class	HP HP HP HP HP A	3 7.5 10 15 30 30 30 55 55 100 100 J
General USE	for single-phase AC r for three-phase AC m Contactor n fuse, 600V High fault		110/120V 230V 200/208V 220/230V 460/480V 575/600V AC current Short circuit current Fuse rating Fuse class Short circuit current	HP HP HP HP A kA A kA	3 7.5 10 15 30 30 30 55 55 100 100 J 5
General USE Short-circuit protection	for single-phase AC r for three-phase AC rr Contactor fuse, 600V High fault Standard fault	notor	110/120V 230V 200/208V 220/230V 460/480V 575/600V AC current Fuse rating Fuse class	HP HP HP HP HP A	3 7.5 10 15 30 30 30 55 100 100 J 5 5 150
General USE Short-circuit protection	for single-phase AC r for three-phase AC m Contactor n fuse, 600V High fault	notor	110/120V 230V 200/208V 220/230V 460/480V 575/600V AC current Short circuit current Fuse rating Fuse class Short circuit current	HP HP HP HP A kA A kA	3 7.5 10 15 30 30 30 55 55 100 100 J 5
General USE Short-circuit protection Short-circuit protection	for single-phase AC r for three-phase AC rr Contactor fuse, 600V High fault Standard fault	notor	110/120V 230V 200/208V 220/230V 460/480V 575/600V AC current Short circuit current Fuse rating Fuse class Short circuit current	HP HP HP HP A kA A kA	3 7.5 10 15 30 30 30 55 100 100 J 5 5 150
General USE Short-circuit protection	for single-phase AC m for three-phase AC m Contactor fuse, 600V High fault Standard fault	to UL	110/120V 230V 200/208V 220/230V 460/480V 575/600V AC current Short circuit current Fuse rating Fuse class Short circuit current	HP HP HP HP A kA A kA	3 7.5 10 15 30 30 30 55 100 100 J 5 5 150
General USE Short-circuit protection Short-circuit protection	for single-phase AC r for three-phase AC rr Contactor fuse, 600V High fault Standard fault	to UL	110/120V 230V 200/208V 220/230V 460/480V 575/600V AC current Fuse rating Fuse class Short circuit current Fuse rating	HP HP HP HP HP A A KA A KA A	3 7.5 10 15 30 30 30 55 100 100 100 J 5 150 A600 - Q600
General USE Short-circuit protection Short-circuit protection	for single-phase AC m for three-phase AC m Contactor fuse, 600V High fault Standard fault	to UL	110/120V 230V 200/208V 220/230V 460/480V 575/600V AC current Short circuit current Fuse rating Fuse class Short circuit current	HP HP HP HP A kA A kA	3 7.5 10 15 30 30 30 55 100 100 J 5 5 150



BFS3822A110 THREE-POLE SAFETY CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 38A, AC COIL 50/60HZ, 110VAC, 2NO+2NC AUXILIARY CONTACT

Storage temperature			
	min	°C	-60
	max	°C	80
Max altitude		m	3000
Resistance & Protection			
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			

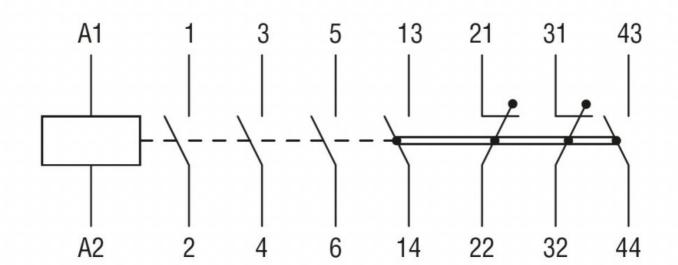


Wiring diagrams

## BFS3822A110



THREE-POLE SAFETY CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 38A, AC COIL 50/60HZ, 110VAC, 2NO+2NC AUXILIARY CONTACT



Certifications and co	mpliance	
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		
	cULus	
	UL listed for USA and Canada	
ETIM classification		
		EC000066 -

ETIM 8.0

EC000066 -Power contactor, AC switching