

Belimo FSLF24-S

Belimo FSLF24-S US Fire and Smoke Damper Actuator Manual

Model: FSLF24-S US

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of the Belimo FSLF24-S US Fire and Smoke Damper Actuator. This device is designed for the reliable control of fire and smoke dampers in ventilation and air conditioning systems, ensuring safety in critical building environments. Please read this manual thoroughly before proceeding with installation or operation.

2. SAFETY INFORMATION

WARNING:

- Installation and maintenance must be performed by qualified personnel only.
- Disconnect all power before installing or servicing the actuator to prevent electric shock.
- Ensure all wiring complies with local and national electrical codes.
- Do not operate the actuator beyond its specified voltage and environmental limits.
- This actuator is a safety device; ensure it is installed correctly and tested regularly.

3. PACKAGE CONTENTS

Verify that all items are present and undamaged upon unpacking:

- Belimo FSLF24-S US Fire and Smoke Damper Actuator
- Mounting Bracket/Hardware (if applicable)
- Instruction Manual (this document)

4. SPECIFICATIONS

Brand	Belimo
Model Number	FSLF24-S US
Voltage	24 Volts
Material	Plastic
Mounting Type	Panel Mount
Connector Type	Screw
Item Weight	0.01 ounces

5. SETUP AND INSTALLATION

The Belimo FSLF24-S US actuator is designed for panel mounting and requires careful installation to ensure proper function and safety. Always refer to the specific wiring diagrams provided with the product packaging for detailed electrical connections.

5.1 Mounting the Actuator

1. Ensure the mounting surface is clean, dry, and capable of supporting the actuator's weight.
2. Position the actuator on the damper shaft according to the damper manufacturer's instructions.
3. Secure the actuator using appropriate mounting hardware, ensuring a firm and stable connection.
4. Verify that the damper can move freely without obstruction after mounting.

5.2 Electrical Connections

The FSLF24-S US actuator operates on 24 Volts. Electrical connections should only be made by a licensed electrician in accordance with all applicable codes.

- Disconnect power to the circuit before making any connections.
- Connect the 24V power supply to the designated screw terminals on the actuator.
- Ensure all connections are secure and properly insulated.
- Double-check wiring against the provided diagram to prevent damage to the actuator or system.



Figure 1: Front view of the Belimo FSLF24-S US Fire and Smoke Damper Actuator, showing its orange casing, control dial, and connection points. This image illustrates the general appearance and key features of the actuator for installation reference.

6. OPERATING INSTRUCTIONS

The Belimo FSLF24-S US actuator is designed for automatic operation in conjunction with a fire alarm or building management system. It typically operates in a fail-safe mode, meaning it will drive the damper to a safe position (e.g., closed) upon loss of power.

6.1 Initial Power-Up

1. After completing all electrical connections and mounting, restore power to the actuator.
2. Observe the actuator's initial movement. It should drive the damper to its default position (e.g., open or closed, depending on configuration).
3. Verify that the damper moves smoothly and without obstruction.

6.2 Functional Testing

Regular functional testing is crucial for fire and smoke dampers. Consult local fire safety regulations for required testing intervals.

- Initiate a test sequence from your building management system or fire alarm panel to activate the damper.
- Confirm that the actuator drives the damper to its intended fire/smoke safety position.
- Verify that the damper returns to its normal operating position once the test signal is removed.

7. MAINTENANCE

The Belimo FSLF24-S US actuator is designed for long-term, reliable operation with minimal maintenance. However, periodic inspection is recommended.

- **Annual Inspection:** Visually inspect the actuator and its connections for any signs of wear, damage, or corrosion.
- **Functional Check:** Perform a functional test of the damper and actuator as per local regulations (e.g., NFPA 80, NFPA 105).
- **Cleaning:** Keep the actuator free from dust and debris. Use a soft, dry cloth for cleaning. Do not use abrasive cleaners or solvents.
- **No Lubrication Required:** The actuator is factory-lubricated and does not require additional lubrication.

8. TROUBLESHOOTING

If the actuator is not functioning as expected, consult the following table before contacting technical support.

Problem	Possible Cause	Solution
Actuator does not move.	No power supply; incorrect wiring; internal fault.	Check 24V power supply; verify wiring against diagram; contact technical support if power and wiring are correct.
Actuator moves incorrectly or partially.	Damper obstruction; incorrect mechanical linkage; actuator damaged.	Inspect damper for obstructions; verify proper mounting and linkage; contact technical support.
Actuator makes unusual noises.	Mechanical issue; internal component failure.	Disconnect power and inspect for visible damage; contact technical support.

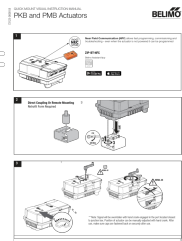
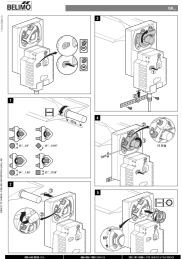
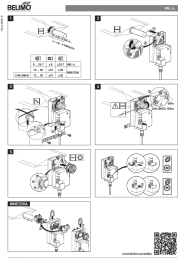
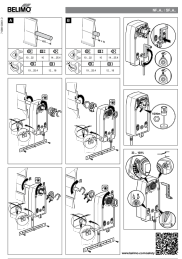
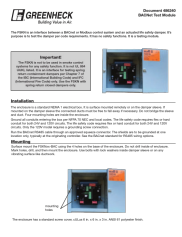
9. WARRANTY AND SUPPORT

Belimo products are manufactured to high standards and typically come with a manufacturer's warranty. For specific warranty terms and conditions, please refer to the documentation included with your purchase or visit the official Belimo website.

For technical assistance, troubleshooting beyond this manual, or warranty claims, please contact Belimo customer support or your authorized Belimo distributor. When contacting support, please have your product model number (FSLF24-S US) and serial number (if applicable) readily available.

Belimo Official Website: www.belimo.com

Related Documents - FSLF24-S

	Belimo PKB and PMB Actuators Quick Mount Visual Instruction Manual Visual installation guide for Belimo PKB and PMB actuators, detailing quick mounting, wiring diagrams, NFC features, and manual override procedures. Includes safety warnings and technical notes.
	Belimo GK Damper Actuator Installation and Operation Guide Comprehensive guide for installing and operating Belimo GK series damper actuators, covering wiring, fail-safe settings, and typical pre-charging times.
	Belimo NM..A.. Series Actuator Installation Guide Comprehensive installation instructions for Belimo NM..A.. series damper actuators, detailing mounting procedures, dimensional specifications, torque requirements, manual override operation, and electrical wiring diagrams for various models.
	BELIMO NF..A.. / SF..A.. Actuator Installation and Wiring Guide Comprehensive guide for BELIMO NF..A.. and SF..A.. series control actuators, covering installation, wiring diagrams, and technical specifications for various voltage and communication protocols.
	Greenheck Document 486240: Belimo FSKN BACnet Test Module Installation and Operation Guide Detailed installation, wiring, and operational guide for the Belimo FSKN BACnet/Modbus Test Module by Greenheck, covering setup, testing, and troubleshooting for life safety dampers.

Belimo Retrofit Solutions Technical Documentation

Comprehensive technical documentation from Belimo detailing retrofit solutions for HVAC actuators, including damper and valve replacements, fire and smoke actuator compatibility, and selection guides for various manufacturers.

Documents - Belimo – FSLF24-S

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[\[pdf\]](#) Datasheet

FSLF24 S US Belimo belimo d Index of docs 20240502 samwoods datasheet en us supplyfile |||

Technical data sheet Fail-Safe actuator used in typical Fire and Smoke damper applications Torque motor 30 in-lb 3.5 Nm Nominal voltage AC/DC 24 V Control On/Off 350F 177C for 30 min 15 s, 15 s Motor/Fail-safe 2x SPST **FSLF24-S** US Technical data Electrical data Nominal voltage Nomina...

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 Full class actuators used in typical fire and smoke detector applications • Temp range 30 to 50 (2-5) °C • Control output 24V DC • Control Output 24V AC • 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100, 105, 110, 115, 120, 125, 130, 135, 140, 145, 150, 155, 160, 165, 170, 175, 180, 185, 190, 195, 200, 205, 210, 215, 220, 225, 230, 235, 240, 245, 250, 255, 260, 265, 270, 275, 280, 285, 290, 295, 300, 305, 310, 315, 320, 325, 330, 335, 340, 345, 350, 355, 360, 365, 370, 375, 380, 385, 390, 395, 400, 405, 410, 415, 420, 425, 430, 435, 440, 445, 450, 455, 460, 465, 470, 475, 480, 485, 490, 495, 500, 505, 510, 515, 520, 525, 530, 535, 540, 545, 550, 555, 560, 565, 570, 575, 580, 585, 590, 595, 600, 605, 610, 615, 620, 625, 630, 635, 640, 645, 650, 655, 660, 665, 670, 675, 680, 685, 690, 695, 700, 705, 710, 715, 720, 725, 730, 735, 740, 745, 750, 755, 760, 765, 770, 775, 780, 785, 790, 795, 800, 805, 810, 815, 820, 825, 830, 835, 840, 845, 850, 855, 860, 865, 870, 875, 880, 885, 890, 895, 900, 905, 910, 915, 920, 925, 930, 935, 940, 945, 950, 955, 960, 965, 970, 975, 980, 985, 990, 995, 1000, 1005, 1010, 1015, 1020, 1025, 1030, 1035, 1040, 1045, 1050, 1055, 1060, 1065, 1070, 1075, 1080, 1085, 1090, 1095, 1100, 1105, 1110, 1115, 1120, 1125, 1130, 1135, 1140, 1145, 1150, 1155, 1160, 1165, 1170, 1175, 1180, 1185, 1190, 1195, 1200, 1205, 1210, 1215, 1220, 1225, 1230, 1235, 1240, 1245, 1250, 1255, 1260, 1265, 1270, 1275, 1280, 1285, 1290, 1295, 1300, 1305, 1310, 1315, 1320, 1325, 1330, 1335, 1340, 1345, 1350, 1355, 1360, 1365, 1370, 1375, 1380, 1385, 1390, 1395, 1400, 1405, 1410, 1415, 1420, 1425, 1430, 1435, 1440, 1445, 1450, 1455, 1460, 1465, 1470, 1475, 1480, 1485, 1490, 1495, 1500, 1505, 1510, 1515, 1520, 1525, 1530, 1535, 1540, 1545, 1550, 1555, 1560, 1565, 1570, 1575, 1580, 1585, 1590, 1595, 1600, 1605, 1610, 1615, 1620, 1625, 1630, 1635, 1640, 1645, 1650, 1655, 1660, 1665, 1670, 1675, 1680, 1685, 1690, 1695, 1700, 1705, 1710, 1715, 1720, 1725, 1730, 1735, 1740, 1745, 1750, 1755, 1760, 1765, 1770, 1775, 1780, 1785, 1790, 1795, 1800, 1805, 1810, 1815, 1820, 1825, 1830, 1835, 1840, 1845, 1850, 1855, 1860, 1865, 1870, 1875, 1880, 1885, 1890, 1895, 1900, 1905, 1910, 1915, 1920, 1925, 1930, 1935, 1940, 1945, 1950, 1955, 1960, 1965, 1970, 1975, 1980, 1985, 1990, 1995, 2000, 2005, 2010, 2015, 2020, 2025, 2030, 2035, 2040, 2045, 2050, 2055, 2060, 2065, 2070, 2075, 2080, 2085, 2090, 2095, 2100, 2105, 2110, 2115, 2120, 2125, 2130, 2135, 2140, 2145, 2150, 2155, 2160, 2165, 2170, 2175, 2180, 2185, 2190, 2195, 2200, 2205, 2210, 2215, 2220, 2225, 2230, 2235, 2240, 2245, 2250, 2255, 2260, 2265, 2270, 2275, 2280, 2285, 2290, 2295, 2300, 2305, 2310, 2315, 2320, 2325, 2330, 2335, 2340, 2345, 2350, 2355, 2360, 2365, 2370, 2375, 2380, 2385, 2390, 2395, 2400, 2405, 2410, 2415, 2420, 2425, 2430, 2435, 2440, 2445, 2450, 2455, 2460, 2465, 2470, 2475, 2480, 2485, 2490, 2495, 2500, 2505, 2510, 2515, 2520, 2525, 2530, 2535, 2540, 2545, 2550, 2555, 2560, 2565, 2570, 2575, 2580, 2585, 2590, 2595, 2600, 2605, 2610, 2615, 2620, 2625, 2630, 2635, 2640, 2645, 2650, 2655, 2660, 2665, 2670, 2675, 2680, 2685, 2690, 2695, 2700, 2705, 2710, 2715, 2720, 2725, 2730, 2735, 2740, 2745, 2750, 2755, 2760, 2765, 2770, 2775, 2780, 2785, 2790, 2795, 2800, 2805, 2810, 2815, 2820, 2825, 2830, 2835, 2840, 2845, 2850, 2855, 2860, 2865, 2870, 2875, 2880, 2885, 2890, 2895, 2900, 2905, 2910, 2915, 2920, 2925, 2930, 2935, 2940, 2945, 2950, 2955, 2960, 2965, 2970, 2975, 2980, 2985, 2990, 2995, 3000, 3005, 3010, 3015, 3020, 3025, 3030, 3035, 3040, 3045, 3050, 3055, 3060, 3065, 3070, 3075, 3080, 3085, 3090, 3095, 3100, 3105, 3110, 3115, 3120, 3125, 3130, 3135, 3140, 3145, 3150, 3155, 3160, 3165, 3170, 3175, 3180, 3185, 3190, 3195, 3200, 3205, 3210, 3215, 3220, 3225, 3230, 3235, 3240, 3245, 3250, 3255, 3260, 3265, 3270, 3275, 3280, 3285, 3290, 3295, 3300, 3305, 3310, 3315, 3320, 3325, 3330, 3335, 3340, 3345, 3350, 3355, 3360, 3365, 3370, 3375, 3380, 3385, 3390, 3395, 3400, 3405, 3410, 3415, 3420, 3425, 3430, 3435, 3440, 3445, 3450, 3455, 3460, 346
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[\[pdf\]](#) Datasheet

FSLF24 S FC US Belimo belimo U Index of docs 20240502 samwoods datasheet en us supplyfile |||

Technical data sheet Fail-Safe actuator used in typical Fire and Smoke damper applications Torque motor 30 in-lb 3.5 Nm Nominal voltage AC/DC 24 V Control On/Off 350F 177C for 30 min 15 s, 15 s Motor/Fail-safe 2x SPST **FSLF24-S-FC** US Technical data Electrical data Nominal voltage Nom...

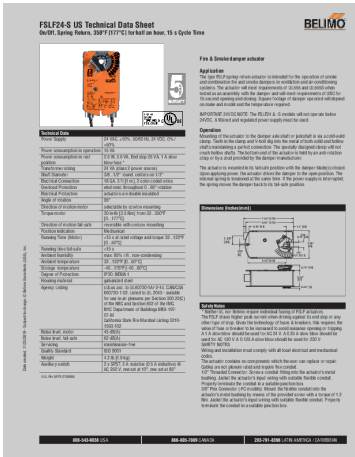
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[\[pdf\]](#) Instructions Guide Diagram

Wiring for Damper Actuators and Control Valves Belimo wiring guide belimo mam americas technical documents Support material |||

Wiring for Damper Actuators and Control Valves July 2011 Wiring for Damper Actuators and Control V ... ound on 24 V models 1 Neutral 2 Hot 3 Ground FSNF24 US FSNF120 US 2 Auxiliary Switch Wiring for **FSLF24-S** US, FSLF120-S US Violet Violet Gray Gray S1 S2 NC S4 41 10 S6 NO 85 39 40 **FSLF24-S**...

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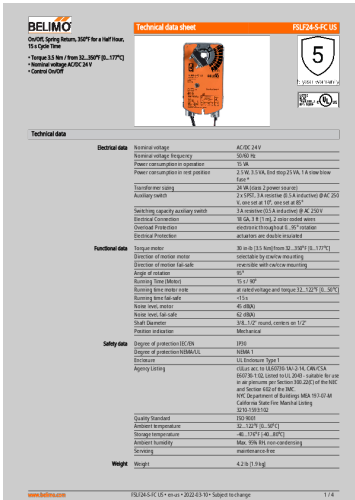


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FSLF24-S US Technical Data Sheet On/Off, Spring Return, 350F 177C for half an hour, 15 s Cycle Time Technical Data 1453 Power Supply 24 VAC, 10 , 50/60 Hz, 24 VDC, 0 / 50 Power consumption in operation 15 VA Power consumption in rest position Transformer sizing 2.5 W, 3.5 VA, End stop 2...

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[pdf] Datasheet

belimodatasheet CS Scheduler Belimo HVAC Products Blackhawk Supply belimo FSLF24 S FC US

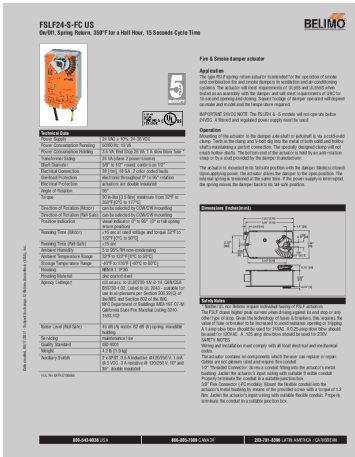
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On/Off, Spring Return, 350F for a Half Hour, 15 s Cycle Time Torque 3.5 Nm / from 32...350F 0...177C Nominal voltage AC/DC 24 V Control On/Off Technical data sheet

FSLF24-S-FC US Technical data www.belimo.com Electrical data Nominal voltage

Nominal voltage frequency Power consumption in op...

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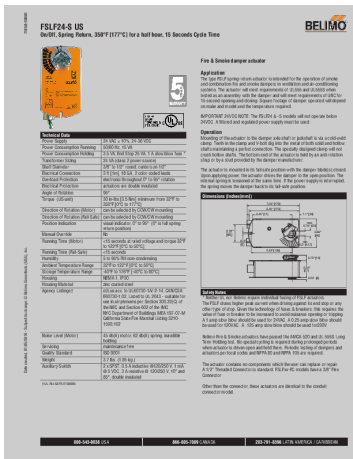


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FSLF24 S FC US On Off Spring Return 350°F for a Half Hour 15 Seconds Cycle Time Belimo Index of docs belimo supplyfile |||

FSLF24-S-FC US On/Off, Spring Return, 350F for a Half Hour, 15 Seconds Cycle Time Technical Data 307586 Power Supply 24 VAC 10 , 24-36 VDC Power Consumption Running 50/60 Hz, 15 VA Power Consumption Holding 3.5 VA, End Stop 25 VA, 1 A slow blow fuse * Transformer Sizing 24 VA class 2 power...

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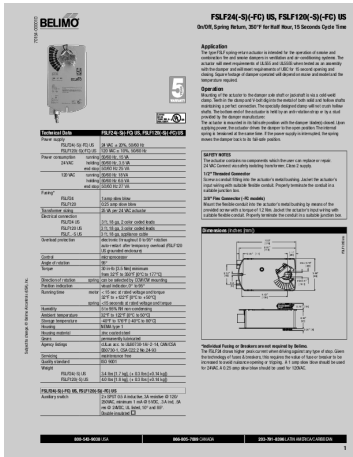


[pdf] User Manual

FSLF24 S US On Off Spring Return 350°F 177°C for a half hour 15 Seconds Cycle Time Belimo temperaturecontrolsystems

71856-00001 **FSLF24-S** US On/Off, Spring Return, 350F 177C for a half hour, 15 Seconds Cycle Time Technical Data 1453 Power Supply 24 VAC 10 , 24-36 VDC Power Consumption Running 50/60 Hz, 15 VA Power Consumption Holding 3.5 VA, End Stop 25 VA, 1 A slow blow fuse * Transformer Sizing 24 VA...

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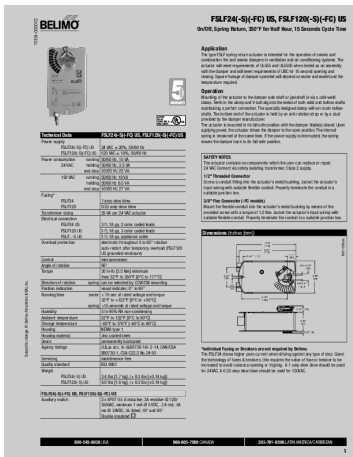
[pdf] Datasheet Catalog

FSLF24 S FC US FSLF120 FSLF230 On Off Spring Return 350°F for Half Hour 15 Seconds Cycle Time

Belimo FSLF Actuators Data Sheets assets kele Catalog 02 Dampers

70154-00001D FSLF24 -S -FC US, FSLF120 -S -FC US On/Off, Spring Return, 350F for Half Hour, 15 ... the actuator is powered open. For end position indication, interlock control, fan startup, etc., 5 **FSLF24-S** US and FSLF120-S US incorporate two built-in auxiliary switches. 6 Double insulated WARNING...

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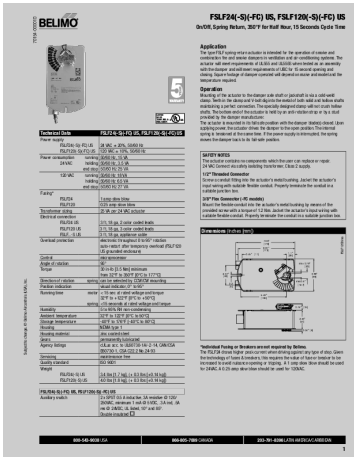
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FSLF24 S FC US FSLF120 On Off Spring Return 350°F for Half Hour 15 Seconds Cycle Time Belimo

FSLF 24 120 literature mestek dms Air Balance Inc

70154-00001D FSLF24 -S -FC US, FSLF120 -S -FC US On/Off, Spring Return, 350F for Half Hour, 15 ... the actuator is powered open. For end position indication, interlock control, fan startup, etc., 5 **FSLF24-S** US and FSLF120-S US incorporate two built-in auxiliary switches. 6 Double insulated WARNING...

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[pdf] Specifications

FSLF24 S FC US FSLF120 FSLF230 On Off Spring Return 350°F for Half Hour 15 Seconds Cycle Time

Belimo Specifications Fire Smoke Actuator 3899 media statesupply filemanager 3 8 |||

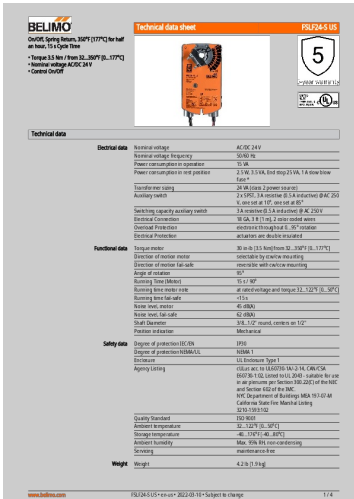
70154-00001D FSLF24 -S -FC US, FSLF120 -S -FC US On/Off, Spring Return, 350F

for Half Hour, 15 ... the actuator is powered open. For end position indication, interlock

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[pdf] Datasheet

belimodatasheet CS Scheduler Datasheet Belimo FSLF24 S Fire Smoke Actuator 30 in lb SR 24V On Off

2 x SPST Adaptive HVAC Supplies belimo US datasheet en us adaptivehvacsupplies 2022 10 |||

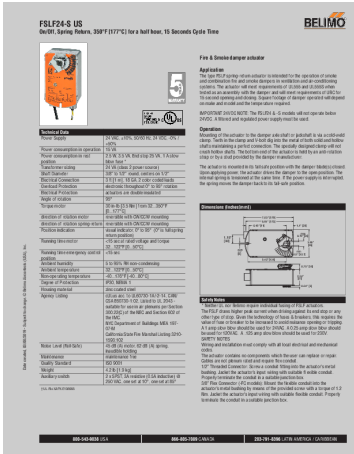
On/Off, Spring Return, 350F 177C for half an hour, 15 s Cycle Time Torque 3.5 Nm /

from 32...350F 0...177C Nominal voltage AC/DC 24 V Control On/Off Technical data

sheet **FSLF24-S** US Technical data www.belimo.com Electrical data Nominal voltage

Nominal voltage frequency Power consumption ...

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FSLF24 S US On Off Spring Return 350°F 177°C for a half hour 15 Seconds Cycle Time Belimo airovac

2020 04 |||

FSLF24-S US On/Off, Spring Return, 350F 177C for a half hour, 15 Seconds Cycle

Time Technical Data Power Supply Power consumption in operation 1453 24 VAC, 10

, 50/60 Hz, 24 VDC, -0 / 50 15 VA Power consumption in rest position Transformer

sizing 2.5 W, 3.5 VA, End stop 25 VA, 1 A slow blow...

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PS124-5, PS124-5S, PS126-5S US Inverter, Single-Phase 120V or 240V for Max 15.5kW Single-Phase Operation

Figure 1-1 PS124-5, PS124-5S, PS126-5S Inverter Front View

Model	PS124-5	PS124-5S	PS126-5S
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Power (kW)	12.0	12.0	15.5
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Power (hp)	16.4	16.4	21.1
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Max. Output Current (A)	50.0	50.0	62.5
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Max. Output Voltage (V)	120/240	120/240	120/240
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Max. Output Frequency (Hz)	60	60	60
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Max. Output Power Factor	0.8	0.8	0.8
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Max. Output Efficiency (%)	90	90	90
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Max. Output Voltage Regulation (%)	±1	±1	±1
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Max. Output Current Regulation (%)	±1	±1	±1
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Max. Output Power Factor Regulation (%)	±1	±1	±1
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Max. Output Efficiency Regulation (%)	±1	±1	±1
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Max. Output Voltage Regulation (%)	±1	±1	±1
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Max. Output Current Regulation (%)	±1	±1	±1
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Max. Output Power Factor Regulation (%)	±1	±1	±1
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Max. Output Efficiency Regulation (%)	±1	±1	±1
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Max. Output Voltage Regulation (%)	±1	±1	±1
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Max. Output Current Regulation (%)	±1	±1	±1
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Max. Output Power Factor Regulation (%)	±1	±1	±1
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Max. Output Efficiency Regulation (%)	±1	±1	±1
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Max. Output Voltage Regulation (%)	±1	±1	±1
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Max. Output Current Regulation (%)	±1	±1	±1
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Max. Output Power Factor Regulation (%)	±1	±1	±1
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Max. Output Efficiency Regulation (%)	±1	±1	±1
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Max. Output Voltage Regulation (%)	±1	±1	±1
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Max. Output Current Regulation (%)	±1	±1	±1
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Max. Output Power Factor Regulation (%)	±1	±1	±1
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Max. Output Efficiency Regulation (%)	±1	±1	±1
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Max. Output Voltage Regulation (%)	±1	±1	±1
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Max. Output Current Regulation (%)	±1	±1	±1
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Max. Output Power Factor Regulation (%)	±1	±1	±1
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Max. Output Efficiency Regulation (%)	±1	±1	±1
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Max. Output Voltage Regulation (%)	±1	±1	±1
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Max. Output Current Regulation (%)	±1	±1	±1
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Max. Output Power Factor Regulation (%)	±1	±1	±1
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Max. Output Efficiency Regulation (%)	±1	±1	±1
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Max. Output Voltage Regulation (%)	±1	±1	±1
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Max. Output Current Regulation (%)	±1	±1	±1
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Max. Output Power Factor Regulation (%)	±1	±1	±1
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Max. Output Efficiency Regulation (%)	±1	±1	±1
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Max. Output Voltage Regulation (%)	±1	±1	±1
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Max. Output Current Regulation (%)	±1	±1	±1
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Max. Output Power Factor Regulation (%)	±1	±1	±1
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Max. Output Efficiency Regulation (%)	±1	±1	±1
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Max. Output Voltage Regulation (%)	±1	±1	±1
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Max. Output Current Regulation (%)	±1	±1	±1
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Max. Output Power Factor Regulation (%)	±1	±1	±1
---	----	----	----

Max. Output Efficiency Regulation (%)	±1	±1	±1
---------------------------------------	----	----	----

Max. Output Voltage Regulation (%)	±1	±1	±1
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Max. Output Current Regulation (%)	±1	±1	±1
------------------------------------	----	----	----

Max. Output Power Factor Regulation (%)	±1
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[illegible][illegible]

BELIMO	
Fail-Safe actuator used in typical Fire and Smoke damper applications	
• Torque motor 30 in-lb (3.5 Nm) • Nominal voltage AC/DC 24 V • Control On/Off • 8 SPST (177°C for 30 min • 15 s, 15 s) at 150 Hz • 2 x SPST	
Technical data sheet	
	
	
Technical data	
Electrical data	Nominal voltage AC/DC 24 V
	Nominal voltage frequency 50/60 Hz
	Power consumption in operation 15 VA
	Power consumption in rest position 2.5 VA, End stop 2.5 VA, 1 A slow blow
Functional data	Actuator motor 3.5 Nm
	Actuator switch 2 x SPST, 1 A contact (2 A inrush) (24 V AC, 250 V)
	Switching capacity auxiliary switch 2 A contact (2 A inrush) (24 V AC, 250 V)
	Control voltage 24 V AC, 100 Hz, 150 V AC, 50/60 Hz
Safety data	Direction of rotation 150°
	Direction of rotation 150°
	Angle of rotation 150°
	Running time (min) 150 s
Weight	Weight 150 g
	Weight 150 g
	Weight 150 g
	Weight 150 g

[pdf] Datasheet

FSLF24 S US Belimo Technical data sheet 15 dic 2023 — Electrical Nominal voltage AC DC 24 V

frequency 50 60 Hz Power consumption in operation VA rest position belimo datasheet en us zotsupply content Actuators Fire and Smoke |||

Fail-Safe actuator used in typical Fire and Smoke damper applications Torque motor 30 in-lb 3.5 Nm Nominal voltage AC/DC 24 V Control On/Off 350F 177C for 30 min 15 s, 15 s Motor/Fail-safe 2 x SPST Technical data sheet **FSLF24-S** US Technical data www.belimo.com Electrical data Nomin...

lang:en score:28 filesize: 564.17 K page_count: 4 document date: 2023-02-23

BELIMO	
FSLF24-S US, FSLF120-S US, FSLF230-S US	
On/Off, Spring Return, 200 V for Half Hour, 15 Seconds Cycle Time	
	
	
Technical data	
Electrical data	Nominal voltage AC/DC 24 V
	Nominal voltage frequency 50/60 Hz
	Power consumption in operation 15 VA
	Power consumption in rest position 2.5 VA, End stop 2.5 VA, 1 A slow blow
Functional data	Actuator motor 3.5 Nm
	Actuator switch 2 x SPST, 1 A contact (2 A inrush) (24 V AC, 250 V)
	Switching capacity auxiliary switch 2 A contact (2 A inrush) (24 V AC, 250 V)
	Control voltage 24 V AC, 100 Hz, 150 V AC, 50/60 Hz
Safety data	Direction of rotation 150°
	Direction of rotation 150°
	Angle of rotation 150°
	Running time (min) 150 s
Weight	Weight 150 g
	Weight 150 g
	Weight 150 g
	Weight 150 g

[pdf]

FSLF24 S FC US FSLF120 FSLF230 On Off Spring Return 350°F for Half Hour 15 Seconds Cycle Time

Belimo FSL24 Actuator Technical LiteratureBelimo Resources Carremm Controls LtdFSLF Actuatorscdn shopify s files 1 1467 2928 FSLF Actuators 3532 |||

70154-00001D FSLF24 -S -FC US, FSLF120 -S -FC US On/Off, Spring Return, 350F for Half Hour, 15 ... the actuator is powered open. For end position indication, interlock control, fan startup, etc., 5 **FSLF24-S** US and FSLF120-S US incorporate two built-in auxiliary switches. 6 Double insulated WARNING...

lang:en score:28 filesize: 628.51 K page_count: 4 document date: 2012-04-17

BELIMO	
FSLF24-S US	
On/Off, Spring Return, 200 V for Half Hour, 15 Seconds Cycle Time	
	
	
Technical data	
Electrical data	Nominal voltage AC/DC 24 V
	Nominal voltage frequency 50/60 Hz
	Power consumption in operation 15 VA
	Power consumption in rest position 2.5 VA, End stop 2.5 VA, 1 A slow blow
Functional data	Actuator motor 3.5 Nm
	Actuator switch 2 x SPST, 1 A contact (2 A inrush) (24 V AC, 250 V)
	Switching capacity auxiliary switch 2 A contact (2 A inrush) (24 V AC, 250 V)
	Control voltage 24 V AC, 100 Hz, 150 V AC, 50/60 Hz
Safety data	Direction of rotation 150°
	Direction of rotation 150°
	Angle of rotation 150°
	Running time (min) 150 s
Weight	Weight 150 g
	Weight 150 g
	Weight 150 g
	Weight 150 g

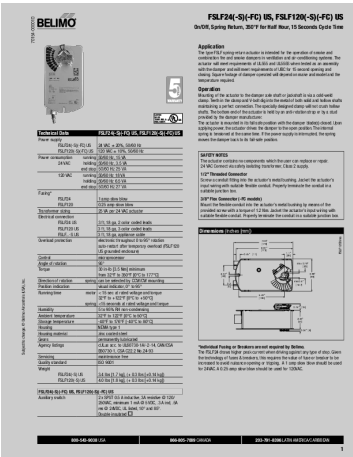
[pdf] User Manual Datasheet

FSLF24 S US On Off Spring Return 350°F 177°C for a half hour 15 Seconds Cycle Time Belimo view

product datasheet kele Actuators Dampers Fire and Smoke assets images Product Assets 284 belimo s datasheets |||

71856-00001 **FSLF24-S** US On/Off, Spring Return, 350F 177C for a half hour, 15 Seconds Cycle Time Technical Data 1453 Power Supply 24 VAC 10 , 24-36 VDC Power Consumption Running 50/60 Hz, 15 VA Power Consumption Holding 3.5 VA, End Stop 25 VA, 1 A slow blow fuse * Transformer Sizing 24 VA...

lang:en score:28 filesize: 796.09 K page_count: 2 document date: 2017-01-26



[pdf] Datasheet

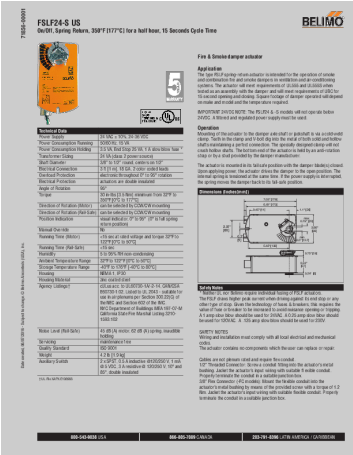
FSLF24 S FC US FSLF120 FSLF230 On Off Spring Return 350°F for Half Hour 15 Seconds Cycle Time

Belimo Download the Data SheetFSLF24 Fire Smoke Damper Actuator Mercato BAS SupplyFSLF24

Scdn shopify s files 1 0271 6975 1137 10610 |||

70154-00001D FSLF24 -S -FC US, FSLF120 -S -FC US On/Off, Spring Return, 350F for Half Hour, 15 ... the actuator is powered open. For end position indication, interlock control, fan startup, etc., 5 **FSLF24-S** US and FSLF120-S US incorporate two built-in auxiliary switches. 6 Double insulated WARNING...

lang:en score:28 filesize: 623.49 K page_count: 4 document date: 2015-05-11



[pdf] User Manual

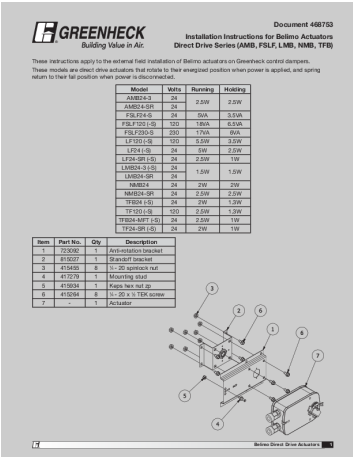
FSLF24 S US On Off Spring Return 350°F 177°C for a half hour 15 Seconds Cycle Time Belimo kele

Actuators Dampers Fire Smokeceb0a9b527df2b8a1dae5f5ebe538b83fc06f5ecimages salsify image

upload s 1czcbdMS ceb0a9b527df2b8a1dae5f5ebe538b83fc06f5ec |||

71856-00001 **FSLF24-S** US On/Off, Spring Return, 350F 177C for a half hour, 15 Seconds Cycle Time Technical Data 1453 Power Supply 24 VAC 10 , 24-36 VDC Power Consumption Running 50/60 Hz, 15 VA Power Consumption Holding 3.5 VA, End Stop 25 VA, 1 A slow blow fuse * Transformer Sizing 24 VA...

lang:en score:28 filesize: 796.09 K page_count: 2 document date: 2017-01-26



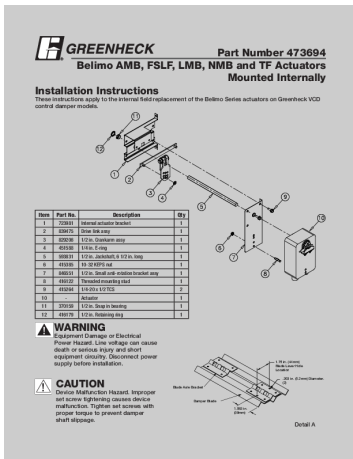
[pdf] Instructions

468753 Belimo LF Rev 10 January 2024 Greenheck HVAC Literature 468753belimo iom sfvrns 3755637b

7 webcontent greenheck atg cms prod docs default source manuals |||

Document 468753 Installation Instructions for Belimo Actuators Direct Drive Series AMB, FSLF, L ... plied, and spring return to their fail position when power is disconnected. Model AMB24-3 AMB24-SR **FSLF24-S** FSLF120 -S FSLF230-S LF120 -S LF24 -S LF24-SR -S LMB24-3 -S LMB24-SR NMB24 NMB24-...

lang:en score:27 filesize: 1.22 M page_count: 4 document date: 2024-02-22

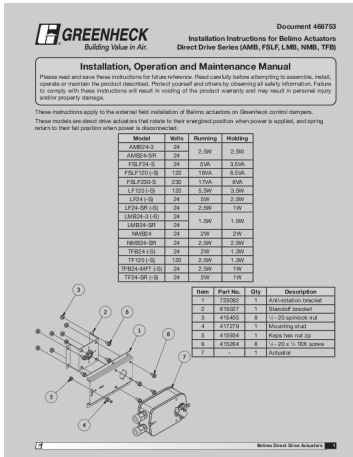


[pdf] Instructions

473694SmBelimoIntMount iom greenheck media manuals

Part Number 473694 Belimo AMB, FSLF, LMB, NMB and TF Actuators Mounted Internally Installation Instr ... position and return to the fail position when power is disconnected. Model AMB24-3 AMB24-SR FSLF24 **FSLF24-S** FSLF120 FSLF120-S FSLF230 FSLF230-S LF24-SR LF24-SR-S LMB24-3 LMB24-3-S LMB24-SR NMB24 NMB24...

lang:en score:27 filesize: 198.29 K page_count: 2 document date: 2010-11-17

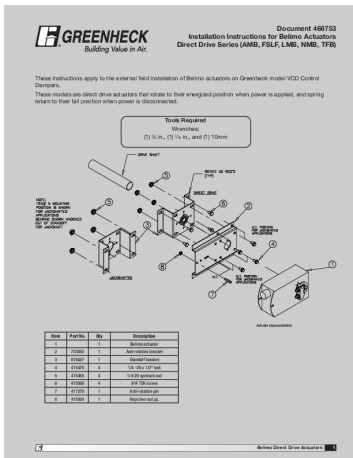


[pdf] User Manual Instructions Warranty

468753 Belimo LF Rev 11 April 2025 Greenheck HVAC Literature 468753belimo iom sfvrns 3755637b 8 webcontent greenheck atg cms prod docs default source manuals |||

Document 468753 Installation Instructions for Belimo Actuators Direct Drive Series AMB, FSLF, L ... plied, and spring return to their fail position when power is disconnected. Model AMB24-3 AMB24-SR **FSLF24-S** FSLF120 -S FSLF230-S LF120 -S LF24 -S LF24-SR -S LMB24-3 -S LMB24-SR NMB24 NMB24-...

lang:en score:27 filesize: 1.22 M page_count: 4 document date: 2025-05-12



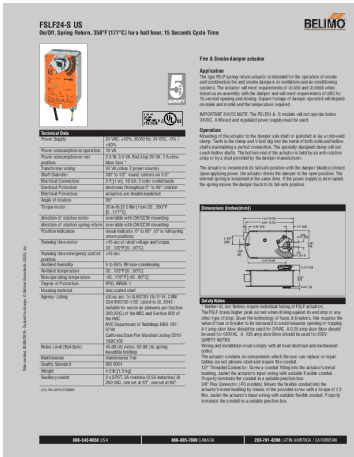
[pdf] Installation Guide Instructions

468753 Belimo LF Rev 9 September 2020 HVAC Literature Greenheck 468753belimo iom sfvrns

3755637b 6 greenheck cms prod azureedge net atg docs default source manuals |||

Document 468753 Installation Instructions for Belimo Actuators Direct Drive Series AMB, FSLF, L ... directly driven damper 2 Belimo Direct Drive Actuators Model Volts AMB24-3 24 AMB24-SR 24 **FSLF24-S** 24 FSLF120 -S 120 FSLF230-S 230 LF120 -S 120 LF24 -S 24 LF24-SR -S 24 LM...

lang:en score:27 filesize: 299.6 K page_count: 4 document date: 2020-10-05

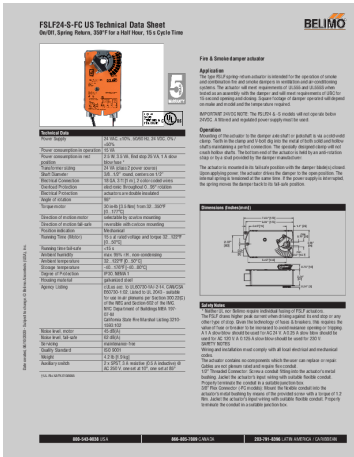


[pdf]

FSLF24 S US On Off Spring Return 350°F 177°C for a half hour 15 Seconds Cycle Time Belimo · Actuator 24 Vac Two Position with Auxiliary Switch 30 lbsModels 1604CD 1606C and 1606CDAF nailorFSLF24 0nailor sites default files documents |||

FSLF24-S US On/Off, Spring Return, 350F 177C for a half hour, 15 Seconds Cycle Time Technical Data Power Supply Power consumption in operation 1453 24 VAC, 10 , 50/60 Hz, 24 VDC, -0 / 50 15 VA Power consumption in rest position Transformer sizing 2.5 W, 3.5 VA, End stop 25 VA, 1 A slow blow...

lang:en **score:27** filesize: 717.73 K page_count: 2 document date: 2019-03-08

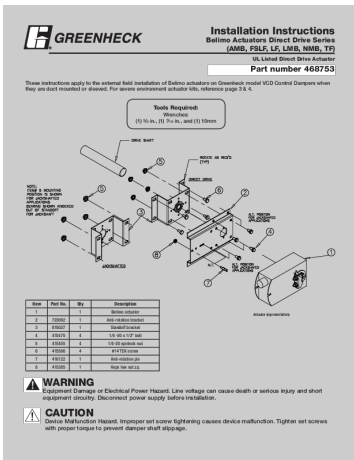


[pdf] Datasheet

FSLF24 S FC US Technical Data Sheet On Off Spring Return 350°F for a Half Hour 15 s Cycle Time Publication belimo datasheet en us Damper Actuators Fire Smoke Building Controls Group fslf24 fc buildingcontrolsgroup mw link id 9642 |||

FSLF24-S-FC US Technical Data Sheet On/Off, Spring Return, 350F for a Half Hour, 15 s Cycle Time Technical Data 307586 Power Supply 24 VAC, 10 , 50/60 Hz, 24 VDC, 0 / 50 Power consumption in operation 15 VA Power consumption in rest position Transformer sizing 2.5 W, 3.5 VA, End stop 25 V...

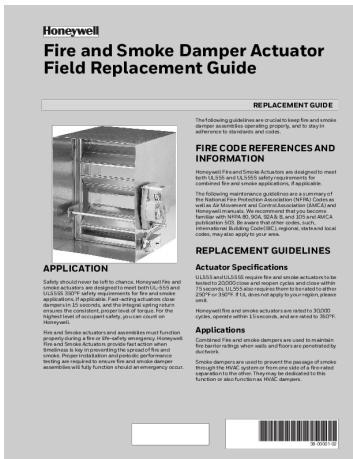
lang:en **score:26** filesize: 745.84 K page_count: 2 document date: 2020-06-10



[pdf] Instructions

468753Belimo iom greenheck media manuals

Installation Instructions Belimo Actuators Direct Drive Series AMB, FSLF, LF, LMB, NMB, TF UL List ... he proper damper shaft rotation for the desired blade fail position. Model AMB24-3 AMB24-SR FSLF24 **FSLF24-S** FSLF120 FSLF120-S FSLF230 FSLF230-S LF24-SR LF24-SR-S LMB24-3 LMB24-3-S LMB24-SR NMB24 NMB2... lang:en **score:26** filesize: 344.07 K page_count: 4 document date: 2010-11-17



[pdf] Guide

38 00001—02 Fire and Smoke Damper Actuator Field Replacement Guide Honeywell E ES Technical Communications HoneywellBuildingTechnologies HoneywellBuildingManagementSystems 00069 1 3

OTHER1 images tradeservice ATTACHMENTS DIR100387 |||

Fire and Smoke Damper Actuator Field Replacement Guide REPLACEMENT GUIDE

The following guidelines ... F120 US Siemens Cross None FSLF120-S US FSLF230

US None None FSLF230-S US FSLF24 US None None **FSLF24-S** US None

FSNF120 US GND221.1U FSNF120-S US GND226.1U FSNF230 US GND321.1U

FSNF230-S US G...

lang:en score:26 filesize: 695.27 K page_count: 2 document date: 2022-11-28



[pdf] Documentation Guide Price List

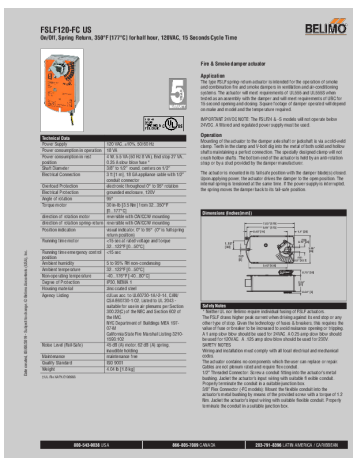
Belimo 2013 Product Guide and Price List damper actuators For additional MFT programming codes refer to technical documentation or visit belimo us * NEMA 4 with heater option denoted by Damper Actuators victordistcontrols 08 |||

DAMPER ACTUATORS DAMPER ACTUATORS SPRING RETURN, ELECTRONIC FAIL-SAFE, FIRE SMOKE AND NON-SPRING ... 50F FSNF120-S US FSNF230 US

FSNF230-S US 15 15 15 15 15 15 FSLF24 US 15 15 **FSLF24-S** US 15 15 FSLF120

US 15 15 FSLF Series 30 in-lbs 3.5 Nm Approx. 4 sq. ft. 3...

lang:en score:26 filesize: 4.84 M page_count: 74 document date: 2013-08-06



[pdf] User Manual

FSLF120 FC US On Off Spring Return 350°F 177°C for half hour 120VAC 15 Seconds Cycle Time

Belimo Go Manual Technical Data 307589 Power Supply 120 VAC ±10% 50 60 Hz consumption in

operation 18 VA rest position 4 W 5 8 End stop 27 Content greenheck FSLFxx Series submittal content

public DAMProd Original 10010 |||

FSLF120-FC US On/Off, Spring Return, 350F 177C for half hour, 120VAC, 15

Seconds Cycle Time Techn ... ntrols USA , Inc. 800-543-9038 USA 866-805-7089

CANADA 203-791-8396 LATIN AMERICA / CARIBBEAN **FSLF24-S**-FC US On/Off,

Spring Return, 350F for a Half Hour, 15 Seconds Cycle Time Technical Data Po...

lang:en score:25 filesize: 3.29 M page_count: 12 document date: 2019-05-22

[\[pdf\]](#) User Manual Datasheet

Belimo Fire and Smoke Actuators FSAF FSNF FSLF FSTF v1 hvacusa media datasheetfiles FS signed

srsitid AfmBOoqJmTNbaHUMBePkm8RGP4CKsqexLW0UyURqzSHObepaMT 51l9S v1v1hvacusa

AtmBOoodR5S193PYVH8CZLsjkUDMtoMbd1Htx1 v4AD sLL5o0zLnUq2hvacusa v1v1v1hvacusa

AlmBO66IM KPJz7eD8dG05yKMzR45kzMUaHRB5Tn5J6GopdInY 5C1VRhVacusa For end position

indication interlock control fail startup etc I SER 24 S US I SER 250 incorporate two built in auxiliary

[illegible]

MS-DC: CH-2, TIL/WZAB, V/L 4/0, TL 100%71Y/3VP1, 0.5N/1, CHY 1, 0.000, 50A531.3B 2/5

appliance cable 1/2 conduit connector Overload protection elec

range 10 VDC 4 For insulated y1y1y1y1y1y1byacusa

AfmBOopniZMBzHkl.1.BhXrE0cZv.lpOGiipdNeu5aw

FSAF24 -S US. FSAF120 -S US On/Off. Spring Return. Meets 250F

Hour, 75 Seconds Te ... the actuator is powered open. For end position indication,

interlock control, fan startup, etc., 5 **FSLF24-S** US and FSLF120-S US incorporate

two built-in auxiliary switches. 6 Double insulated WARNING...

lang:en score:24 filesize: 2.37 M page_count: 18 document date: 2014-11-20

[illegible][illegible][illegible]

[\[pdf\]](#) Instructions

FSD 211 Rev 14 December 2020 Greenheck USA Installation instructions available at greenheck.co.in

See complete marking on product UL 555 and 555S Classification R13317 Model meets the requirements

for fire fsd submittal content public DAMProd Original 10002 ||

Model FSD-211 Application Model FSD-211 is a combination fire smoke damper with

SV style blades. This model is designed for operation and dynamic closure in

emergency fire smoke situations. It is rated for airflow and leakage in either direction.

The FGD ZFI may be installed vertically with blade...

[hangzhou](#) [000001](#) : [msc1-01](#): [000001](#) page_count: 6 document_date: 2020-12-18

[\[pdf\]](#) Instructions

MD 301 Rev 19 December 2020 Application UL 555S Leakage Class I Ratings Greenheck USA

Installation instructions available at greenheck.co in Model SMD Smoke Damper Steel Airfoil Blades The

is a leakage rated smoke damper with airfoil smd submittal content public DAMProd Original 10002 |||

Application The SMD-301 is a leakage rated smoke damper with airfoil blades for

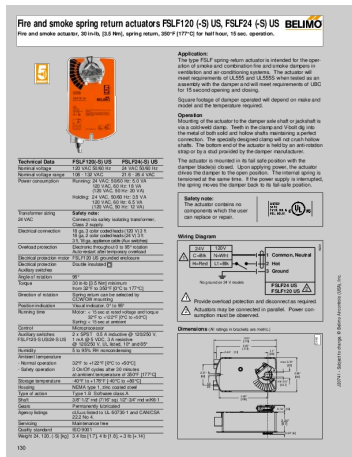
operational closure in emergency smoke control situations. The SMD-301 may be

Installed vertically with blades running horizontal or horizontally and is rated for airflow

and leakage in either direction. Ratings Leakage...

hang:0n 00070.20 m00:20: 0 r0:00 R page_count: 0 document date: 2020-12-10

lang:en score:22 filesize: 1.21 M page count: 16 document date: 2009-11-23



FSActuators greenheck media submittals

Auxiliary switch wiring for **FSLF24-S** US, FSLF120-S US Violet Violet Gray Gray S4 makes to S6 when the 1 actuator is powered ope...

lang:en score:22 filesize: 701.88 K page_count: 14 document date: 2007-09-13



Belimo Fire Smoke Actuator Mercato BAS SupplyFSLF120 UScdn shopify s files 1 0271 6975 1137

FSLF120 10610 |||

Fire and smoke

smoke actuator, 3 ... 20V N=Wht L1=Blk 1 1 2 2 Gnd Gnd 1 1 No ground on 24 V models. Auxiliary switch wiring for **FSLF24-S** US, FSLF120-S US S4 makes to S6 when the 1 actuator is powered open. S1 S2 NC S4 S6 NO 1...

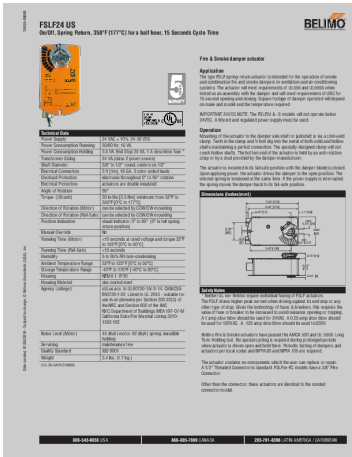
lang:en score:21 filesize: 207.93 K page_count: 2 document date: 2019-10-10



Literature Tech Actuators stromquist 80

Auxiliary switch wiring for **FSLF24-S** US, FSLF120-S US Violet Violet Gray Gray S4 makes to S6 when the 1 actuator is powered ope...

lang:en score:21 filesize: 396.7 K page count: 8 document date: 2006-10-05



[pdf] User Manual

FSLF24 US On Off Spring Return 350°F 177°C for a half hour 15 Seconds Cycle Time Belimo

FSLFxxFSLFxxS Series submittalcontent greenheck public DAMProd Original 10002 submittal |||

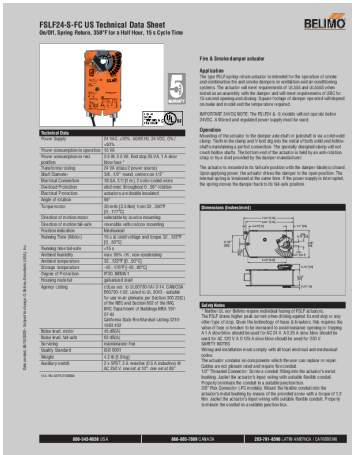
71855-00001 FSLF24 US On/Off, Spring Return, 350F 177C for a half hour, 15

Seconds Cycle Time Te ... Inc. 800-543-9038 USA 866-805-7089 CANADA 203-791-

8396 LATIN AMERICA / CARIBBEAN 71856-00001 **FSLF24-S** US On/Off, Spring

Return, 350F 177C for a half hour, 15 Seconds Cycle Time Technical Dat...

lang:en score:21 filesize: 3.48 M page_count: 12 document date: 2017-02-01



[pdf] Datasheet

new manager Download the Data SheetFSLF24 S FC US Belimo Fire Smoke Damper Actuator Mercato

BAS SupplyFSLF24 UScdn shopify s files 1 0271 6975 1137 FSLF24 v 1598963619 |||

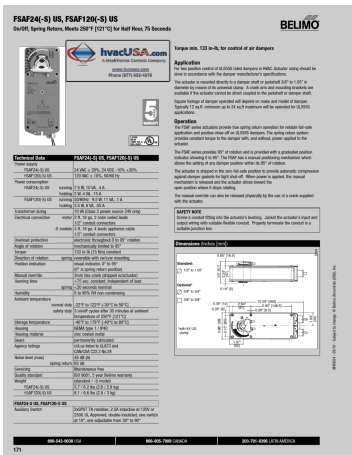
FSLF24-S-FC US Technical Data Sheet On/Off, Spring Return, 350F for a Half Hour,

15 s Cycle Time Technical Data 307586 Power Supply 24 VAC, 10 , 50/60 Hz, 24

VDC, 0 / 50 Power consumption in operation 15 VA Power consumption in rest

position Transformer sizing 2.5 W, 3.5 VA, End stop 25 V...

lang:en score:20 filesize: 739.37 K page_count: 2 document date: 2020-06-10



[pdf] User Manual Datasheet

Belimo Fire and Smoke Actuators FSAF FSNF FSLF FSTF FSAF24 S US FSAF120 HVAC USA 800 543

9038 866 805 7089 CANADA 203 791 8396 LATIN AMERICA 173 FSAF230 On Off Spring Return 250°F

121°C for Half Hour 75 Seconds FS signed hvacusa media datasheetfiles |||

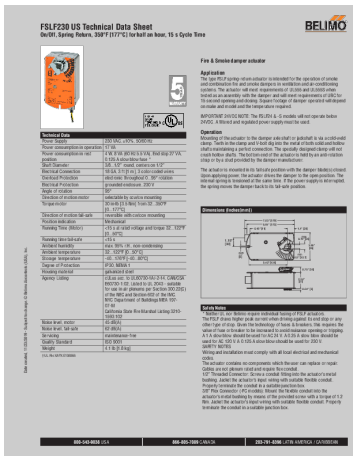
FSAF24 -S US, FSAF120 -S US On/Off, Spring Return, Meets 250F 121C for Half

Hour, 75 Seconds Te ... the actuator is powered open. For end position indication,

interlock control, fan startup, etc., 5 **FSLF24-S** US and FSLF120-S US incorporate

two built-in auxiliary switches. 6 Double insulated WARNING...

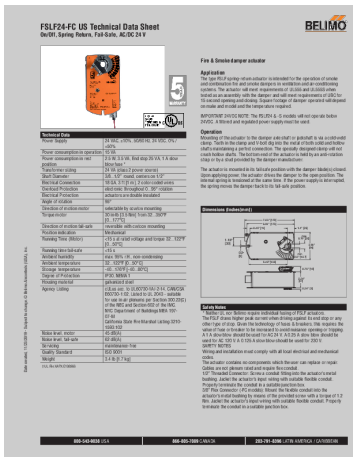
lang:en score:20 filesize: 2.37 M page_count: 18 document date: 2014-11-20



[\[pdf\]](#) Datasheet

new manager Datasheet FSLF230 US Belimo Fire Smoke Actuator alliedcontrols belimo datasheets ||| FSLF230 US Technical Data Sheet On/Off, Spring Return, 350F 177C for half an hour, 15 s Cycle Time Technical Data 1456 Power Supply 230 VAC, 10 , 50/60 Hz Power consumption in operation 17 VA Power consumption in rest 4 W, 8 VA 60 Hz 5.5 VA , End stop 27 VA, position 0.125 A slow blow fu...

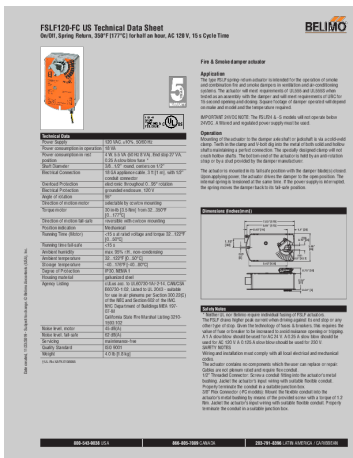
lang:en score:20 filesize: 590.33 K page_count: 2 document date: 2019-11-23



[\[pdf\]](#) Datasheet

new manager Datasheet FSLF24 FC US Belimo Fire Smoke Actuator alliedcontrols belimo datasheets ||| FSLF24-FC US Technical Data Sheet On/Off, Spring Return, Fail-Safe, AC/DC 24 V Technical Data 307585 Power Supply 24 VAC, 10 , 50/60 Hz, 24 VDC, 0 / 50 Power consumption in operation 15 VA Power consumption in rest position 2.5 W, 3.5 VA, End stop 25 VA, 1 A slow blow fuse * Transformer ...

lang:en score:20 filesize: 603.3 K page_count: 2 document date: 2019-11-23

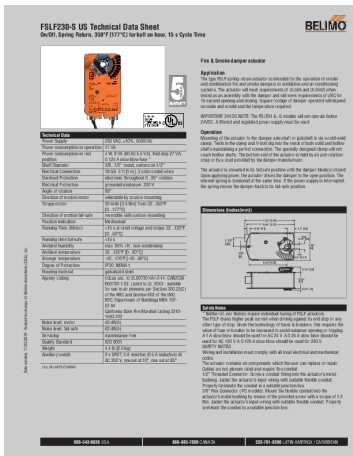


[\[pdf\]](#) Datasheet

new manager Datasheet FSLF120 FC US Belimo Fire Smoke Actuator alliedcontrols belimo datasheets |||

FSLF120-FC US Technical Data Sheet On/Off, Spring Return, 350F 177C for half an hour, AC 120 V, 15 s Cycle Time Technical Data 307589 Power Supply 120 VAC, 10 , 50/60 Hz Power consumption in operation 18 VA Power consumption in rest 4 W, 5.5 VA 50 Hz 8 VA , End stop 27 VA, position 0.25 ...

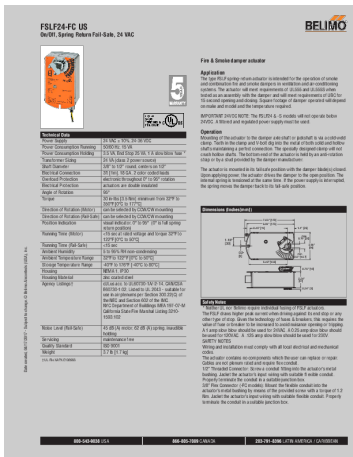
lang:en score:20 filesize: 589.88 K page_count: 2 document date: 2019-11-23



[pdf] Datasheet

new manager Datasheet FSLF230 S US Belimo Fire Smoke Actuator alliedcontrols belimo datasheets ||| FSLF230-S US Technical Data Sheet On/Off, Spring Return, 350F 177C for half an hour, 15 s Cycle Time Technical Data 1457 Power Supply 230 VAC, 10 , 50/60 Hz Power consumption in operation 17 VA Power consumption in rest 4 W, 8 VA 60 Hz 5.5 VA , End stop 27 VA, position 0.125 A slow blow ...

lang:en score:20 filesize: 734.79 K page_count: 2 document date: 2019-11-23



[pdf]

FSLF24 FC US On Off Spring Return Fail Safe 24 VAC Belimo Index of docs belimo supplyfile ||| FSLF24-FC US On/Off, Spring Return Fail-Safe, 24 VAC Technical Data 307585 Power Supply 24 VAC 10 , 24-36 VDC Power Consumption Running 50/60 Hz, 15 VA Power Consumption Holding 3.5 VA, End Stop 25 VA, 1 A slow blow fuse * Transformer Sizing 24 VA class 2 power source Shaft Diameter 3/8...

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Submittal Model MLS 300 Position Indicator Package for Combination Fire Smoke and Dampers Use with Belimo Honeywell Actuators POSITION INDICATOR PACKAGE FOR COMBINATION FIRE SMOKE AND DAMPERS USE WITH BELIMO HONEYWELL ACTUATORS MODEL Nailor 3 B nailor sites files documents |||

POSITION INDICATOR PACKAGE FOR COMBINATION FIRE/SMOKE AND SMOKE DAMPERS FOR USE WITH BELIMO AND HONE ... 3A resistive, 0.5A inductive 120 VAC, Settings fixed : One switch at 10, one switch at 80 Models **FSLF24-S**, FSLF120-S, FSLF230-S: 2 x SPST 3A resistive, 0.5A inductive 120/250 VAC, 1mA 5 VDC, Se...

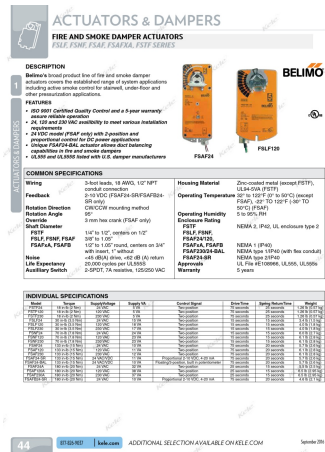
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3.5 Nm Approx. 4 sq. ft. 350F **FSLF24-S** US FSLF120 US FSLF120-S US FSLF230
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ACTUATORS DAMPERS ACTUATORS DAMPERS 1 NEW FIRE AND SMOKE
DAMPER ACTUATORS FSLF, FSNF, FSAF, FSAFXA, FSTF SERIES

DESCRIPTION Belimo s broad product line of fire and smoke damper actuators
covers the established range of system applications including active smoke control for
stairwell, under-f...

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