

Weyn-Lauwers N.V.

Industriepark-Noord 12
B - 9100 SINT-NIKLAAS

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**J3 S20
ELECTRIC
ACTUATORS**

GENERAL CHARACTERISTICS

Housing: Anticorrosive polyamide (lid & body)

Main external shaft: Anticorrosive polyamide

External screws: stainless steel

Gears: Steel and polyamide

Visual position indicator: Polyamide

Dome: Polycarbonate

Adjustable internal cams: Polyamide

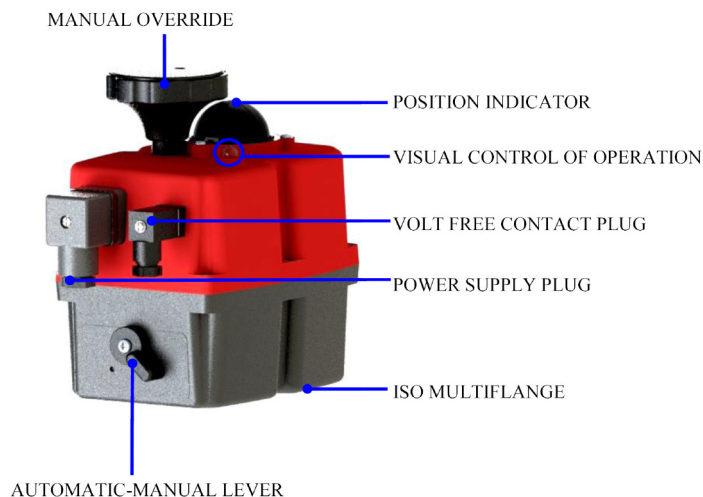
Electric motor: Single phase 24VDC

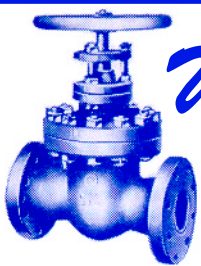
Insulation: Class B



DATASHEET

Model	J3C S20
Voltage VDC/VAC 50/60Hz -0/+5%	24 a 240 (Patent Pending)
Voltage VDC/VAC 12 ONLY -0/+5%	Change the power supply PCB
Operation time unload (Sec.)	10 Sec./90°
Maximum torque break	25 Nm / 221 lb/in
Maximum operational torque	20 Nm / 177 lb/in
Duty rating (%)	75 %
Working angle	90° a 270°
Limit switch	4 STDP micro (2 motor stop and 2 confirmations)
Automatic heater	3,5 W
Plugs	EN175301-803
Protection IEC 60529 rating	IP67
Temperature	20°C +70°C / -4°F +158°F
Weight (Kg.)	1,8 Kg



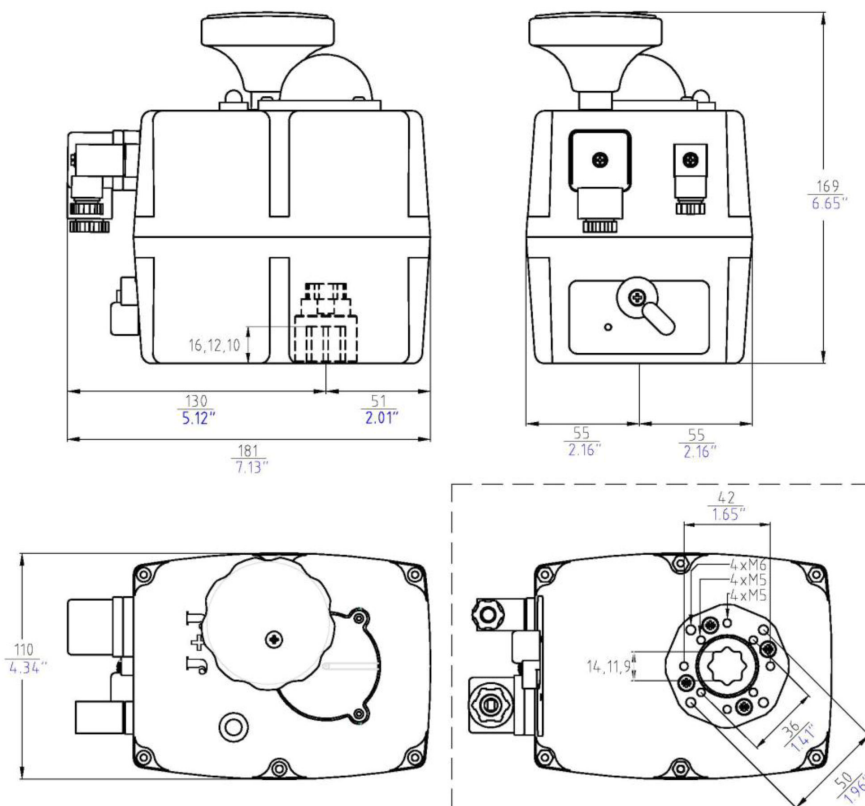


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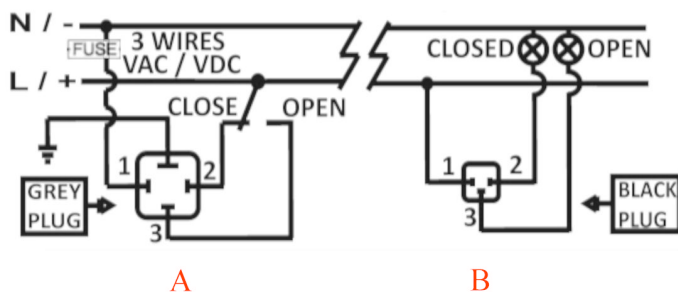
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EXTERNAL CONNECTING DIAGRAM

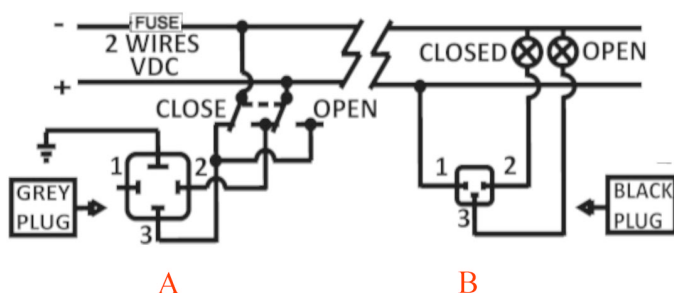
3 WIRES ON - OFF



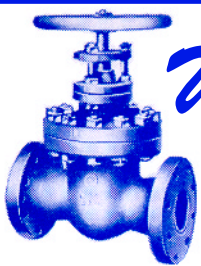
- A = Power supply plug
- A: VAC 3 WIRES (Grey plug)
PIN 1 = Neutral + PIN 2 = Phase = Close
PIN 1 = Neutral + PIN 3 = Phase = Open
- A: VDC 3 WIRES (Grey plug)
PIN 1 = (-) Negative + PIN 2 = (+) Positive = Close
PIN 1 = (-) Negative + PIN 3 = (+) Positive = Open

- B = Volt free contact, plug
PIN 1 / PIN 2 = Close
PIN 1 / PIN 3 = Open

2 WIRES ON - OFF



- A = Power supply plug
- A: VDC 2 WIRES (Grey plug)
PIN 2 = (+) Positive + PIN 3 = (-) Negative = Close
PIN 2 = (-) Negative + PIN 3 = (+) Positive = Open
- B = Volt free contact plug
PIN 1 / PIN 2 = Close
PIN 1 / PIN 3 = Open



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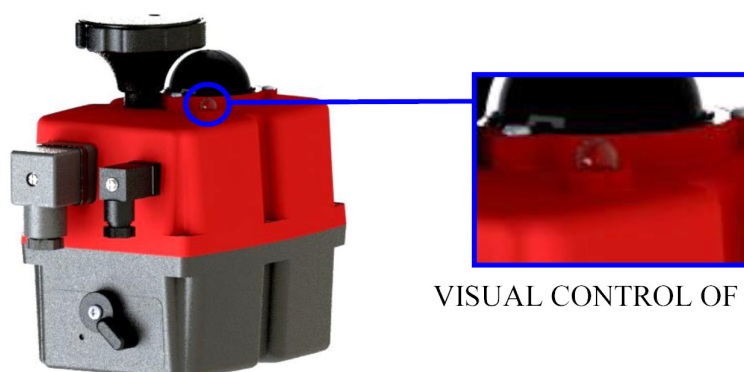
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J3 S20 ELECTRIC ACTUATORS

J3C S20 Consumption	Unload		Max. Operational Torque 20Nm		Max. Torque Break 25Nm	
	A	W	A	W	A	W
24 VDC	0,40	10,30	0,80	19,30	0,80	20,30
48 VDC	0,20	10,20	0,40	18,00	0,40	18,50
110 VDC	0,10	7,50	0,10	13,30	0,10	14,30
24 VAC	0,60	14,20	1,10	25,80	1,20	27,60
48 VAC	0,40	18,40	0,70	31,30	0,70	32,20
110 VAC	0,20	16,50	0,30	27,60	0,30	27,60
240 VAC	0,10	22,20	0,20	37,50	0,20	39,60

The LED Light provides visual communication between the actuator and the user.
The current operational status is shown by different LED colors.



VISUAL CONTROL OF OPERATION

ACTUATOR OPERATIONAL STATUS	LED COLORS
Actuator without power being supplied	LED OFF
Actuator with power being supplied	OPEN = GREEN LED CLOSE = RED LED
Actuator , moving fromto, (flashing led)	FROM OPEN TO CLOSE = RED / ORANGE FROM CLOSE TO OPEN = GREEN / ORANGE
Actuator with torque limiter function on, moving from to, (flashing led)	FROM OPEN TO CLOSE = RED / OFF FROM CLOSE TO OPEN = GREEN / OFF
Actuator in MANUAL mode	ORANGE / OFF (SYMMETRIC SEQUENCE)
Actuator without power, working with the BSR system. Max. 3 minutes	BSR NC = RED / OFF BSR NO = GREEN / OFF
Battery protection. Danger, the battery needs recharging, BSR blocked	ORANGE / OFF (ASYMMETRIC SEQUENCE)
Actuator with DPS 2015	STOP = BLUE OPENING = BLUE / GREEN CLOSING = BLUE / RED