Valbia Plastic 350Nm Electric Valve Actuator

Type: VB350

Available with actuator function: POWER OPEN - POWER CLOSE, FAILSAFE, MODULATING, FAILSAFE MODULATING

VB350

Overview

The VB3350 multi-voltage electric valve actuator from the European electric actuator manufacturer Valbia offers an impressive list of standard features that include multi-voltage capability, protection against damage from over-torque or condensation, and emergency hand operation facility.

Available modulating on request with either 4-20mA or 0-10V input and output, with factory fitted internal positioning system.

Available failsafe on request (except 12V version) with factory fitted internally installed battery back-up system.

VB350 VALBIA Electric Actuator Specifications		
Voltage range / Duty rating	Low voltage version High voltage version	12V AC (1ph) or DC / 50% 24V AC (1ph) or DC / 75% 100-240V AC (1ph) / 75%
Operating time (0-90° no load)	50 seconds	
Maximum break torque	350 Nm (3098lb.ins)	
IP Rating (IEC 60529)		IP67
Working angle Standard (on request)		90° (180° & 270° option)
Mounting ISO:5211 x DIN 3337		F07 & F010 x 22 (std)
Motor switches		2 x SPDT micro switches
End of travel confirmation (volt free)		2 x SPDT micro switches
Heater		Yes
Ambient temperature range		-20° to +55°C (-4 to +131°F)
Electrical connections		PG11 x 2
Weight		6.0 kg
VB350 Consumption		
High Voltage Version	Nominal Voltage Current Power	100-240V AC (1 ph 50/60Hz) 0.4 - 0.75A 75-96 VA
High Voltage Version	Nominal Voltage Current 12V / 24V Power	12V AC/DC / 24V AC/DC 3.65 - 4.75A / 1.65 - 1.95A 44 - 57A / 40 - 47VA
Frequency		50/60Hz

How this VB350 electric 1/4 turn valve actuator works (on-off)

Electrically operated valves are driven by an electric actuator containing a motor and gearbox. On receipt of a continuous voltage signal (not pulse) the motor runs and, via a gearbox in the electric actuator, rotates the valve stem. The motor stops at the desired position (usually 0° or 90°) by an internal cam striking a micro-switch. The valve actuator remains in this position, with the voltage still applied continuously, until switched and a continuous voltage reversing signal (not pulse) is applied, which runs the motor in the opposite direction, reversing the rotation until a separate internal cam strikes a separate micro-switch and stop the motor. The VB350 actuator is designed to have the external power continuously applied, and power must not be switched off when end of travel is achieved.

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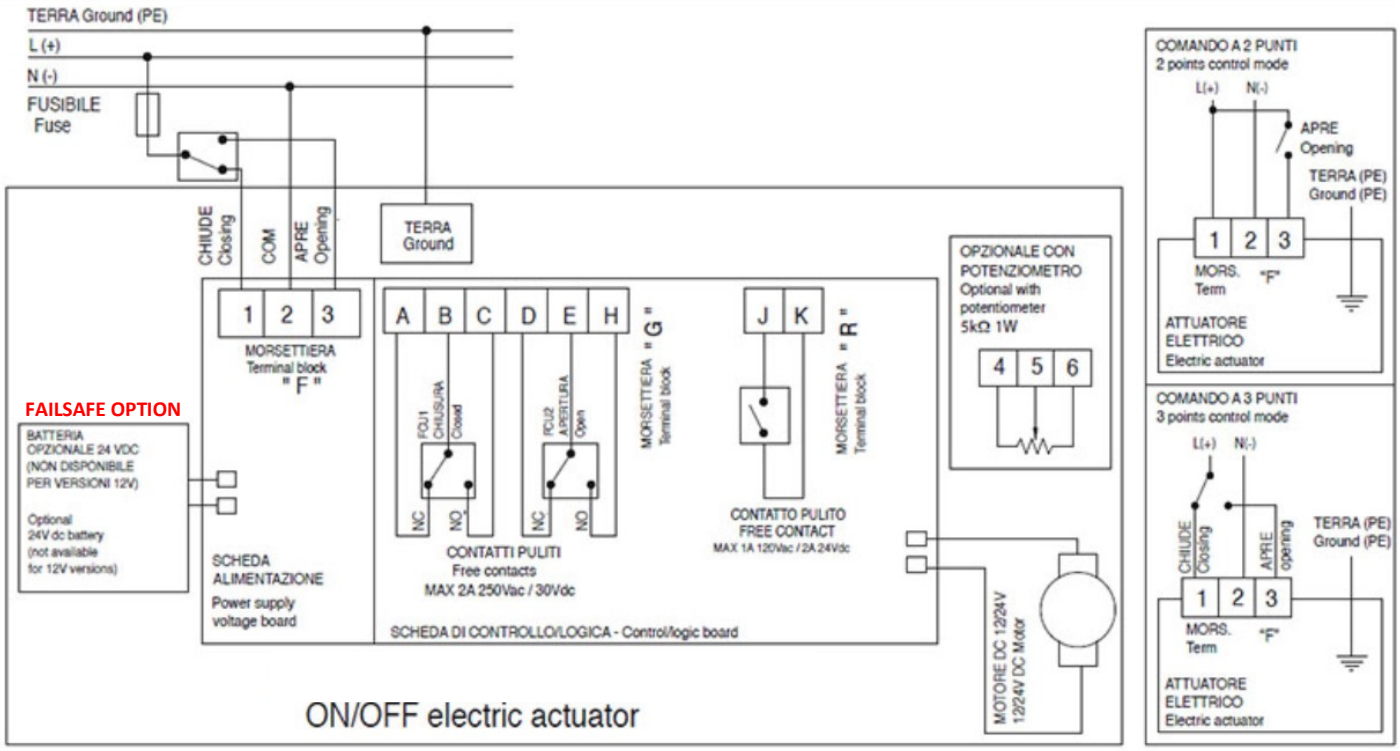
Electrical Connections

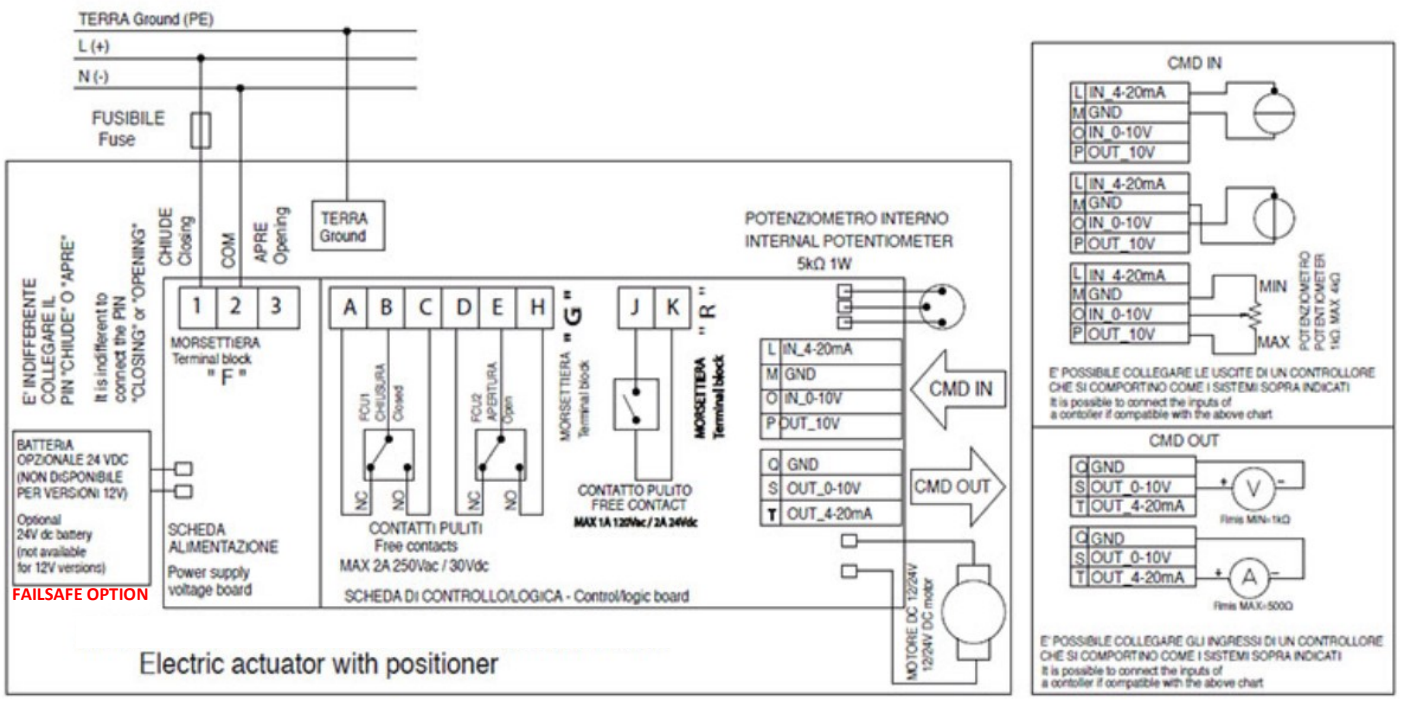
VB-350 ON - OFF ELECTRIC ACTUATOR

Power open, power close, stays put on loss of external power.



VB-350 MODULATING ELECTRIC ACTUATOR

Proportional control, stays put on loss of external power.



Evitare che il segnale di massa/neutro dell'alimentazione COM collegato al morsetto "2" della morsettiera "F", non sia allo stesso potenziale elettrico della massa del segnale di comando "GND" della morsettiera "CDM IN" o della massa dell'uscita di segnalazione "GND" della morsettiera "CDM OUT".
The power supply COM signal (pin "2" terminal block "F") must not share the same electrical command ground signal (pin "GND" terminal block "CDM IN") or feedback ground signal (pin "GND" terminal block "CDM OUT") .

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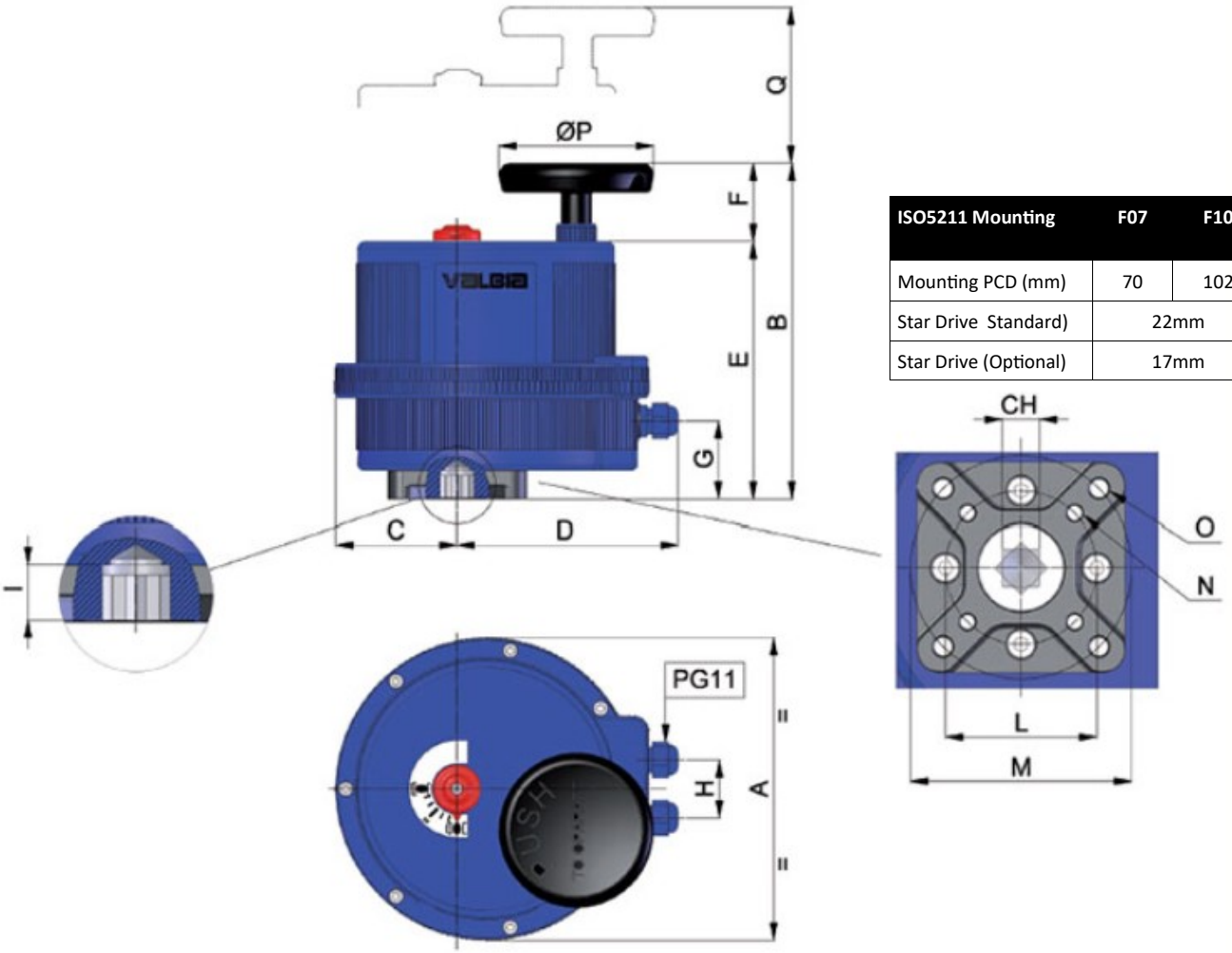
VB350 Dimensions



ISO5211 Mounting	F07	F10
Mounting PCD (mm)	70	102
Star Drive Standard)	22mm	
Star Drive (Optional)	17mm	

Dimensions (mm):															
CH	A	B	C	D	E	F	G	H	I	L	M	N	O	P	Q
22	222	233.5	77	170	182	51.5	54	40	24	70	102	M8x20	M10x20	110	105