

ELECTRIC ROTARY GEAR MOTOR Series AB...

The AB electric rotary gear motors are newly conceived and have been specially designed to be installed on industrial and residential combustion systems.

They are particularly suitable for the control and regulation of modulating valves, butterfly valves, dampers and other fluid regulation systems requiring an angular positioning within 90° or 180°.

The electric motor is unipolar and bidirectional, with high static and maintaining torque for 3-position operation.



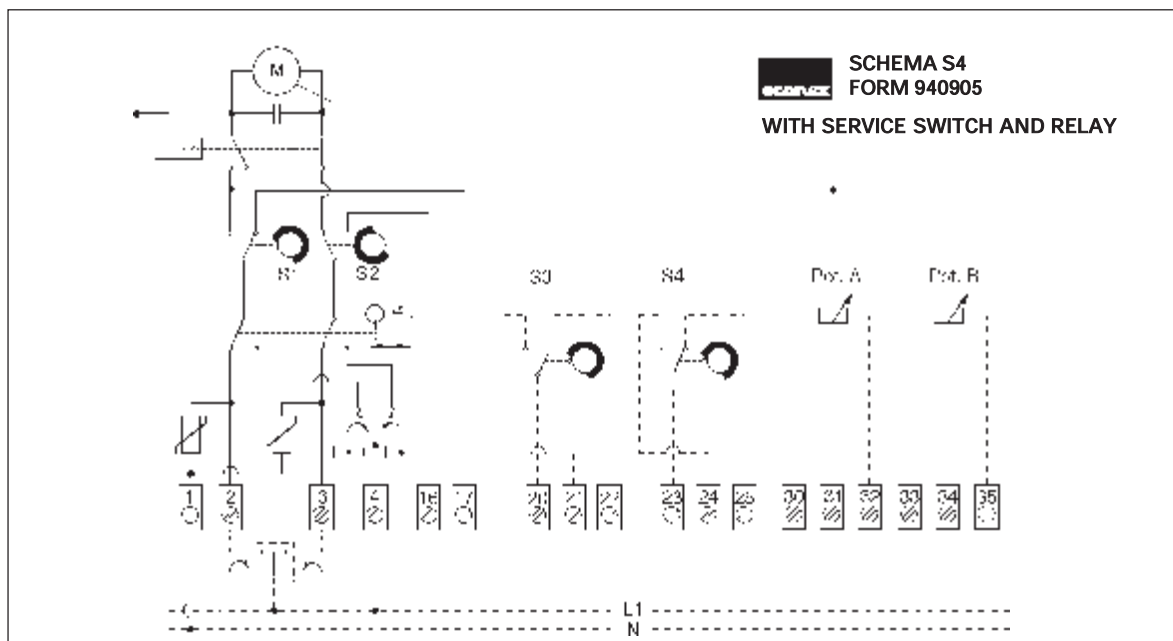
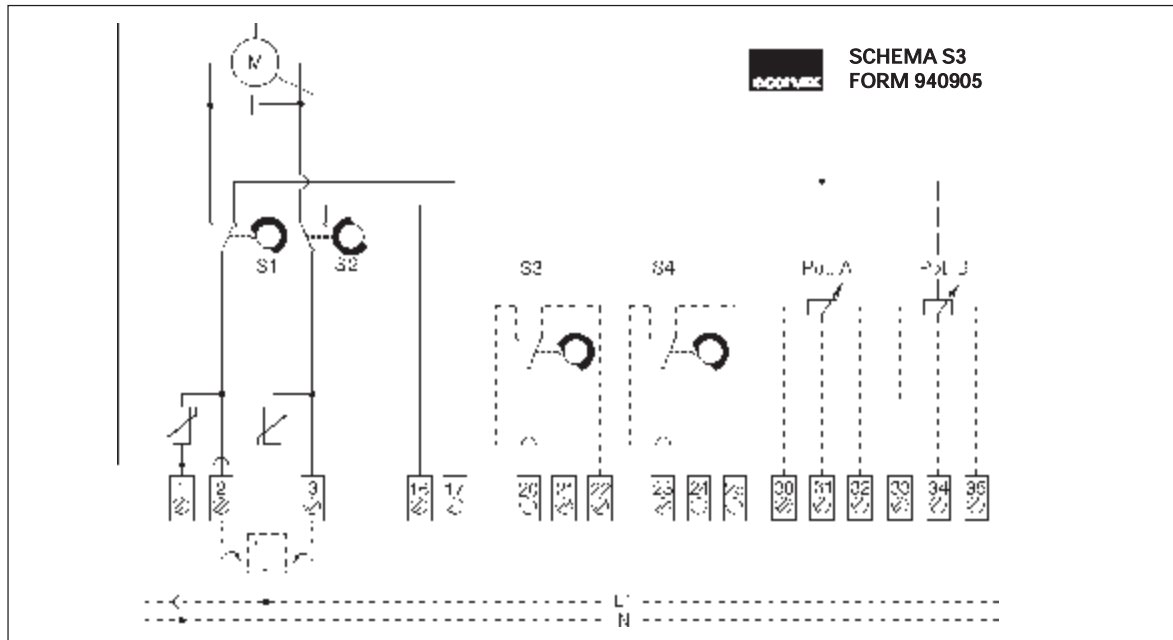
TECHNICAL FEATURES

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|-----------------------|---|--|--------------------------------|
| Body and cover | : die-cast aluminium | Standard supply voltage | : 230V/50-60Hz |
| Nominal torque | : 5 Nm | On request | : 110V/50- 60Hz or 24V/50-60Hz |
| Maintaining torque | : 2,5 ÷ 3 Nm | Nominal load | : 4 VA and 7 VA |
| Rotation time | : 7,5 ÷ 120 seconds for 90° at 50Hz | Duty cycle | : continuous 100% ED |
| Rotation angle | : adjustable 20° ÷ 180° (standard 90°) | Rating of end switches and auxiliary switches | : 5 (1) A/250V |
| Output shaft | : Ø 10 mm | Enclosure | : IP 54 according to IEC 529 |
| Installation | : in any position | Cable entry | : 2 x Pg 13,5 |
| Fastening bore | : DIN ISO 5211 - F05 and F07 | | |
| Operating temperature | : -10 ÷ +60 °C | | |
| Weight | : ~1,7 kg | | |

FEATURES

- Interchangeability with the most available gear motors.
- Sturdy, compact construction, suitable for industrial applications.
- Installation in any position.
- Adjustable rotation angle.
- Cams easily adjustable by friction.
- Wide range of accessories on request.
 - adjustable auxiliary microswitches with free electric contacts (max.2)
 - 1 or 2 potentiometers - range: 150 Ohm to 2.5 kOhm
 - manual/automatic operation and service switch "open/close/stop"
 - multipolar connector for electric wiring
 - mechanical position indicator
 - relay for cut phase

WIRING DIAGRAM



CAM ADJUSTMENT

For cam adjustment the proper lever supplied with the gear motor equipment is to be used. Use the lever from the right side, introducing the pin into one of the bores on the sides of the blue cam and lever it to the desired position.

If the blue cam is in a behind position, use the lever on its curved side to move the blue cam to a more suitable position to perform adjustment.

Adjustment is possible in both directions along the whole rotation angle of the cam shaft.

Remove the lever before servicing.

N.B.: If a potentiometer is installed it is necessary to reset its friction gear to 0 setting.