

Electric and electronic rotary gear motor series AR2..., AR2...E

AR2 gear motors are specially designed to be installed in industrial combustion plants and are particularly suitable to control modulating valves, ball valves, butterfly dampers and other devices for the regulation of fluids in air conditioning and heating systems.

AR2 electric motor is bidirectional with high static and maintaining torque, for 2 or 3 position operation. AR2 electronic version is controlled by analogical input signal in current or voltage and on request with output signal in current or voltage.

Actuators of the series AR2 have the certificate **CE** and EMC Electromagnetic Compatibility.



TECHNICAL FEATURES

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Body and cover	Die-casted aluminium	Supply voltage	230V dl, 113V dl, 24V dl 30-00 HZ	
Nominal torque	4÷20 Nm	On request	24V dc	
Maintaining torque	4÷20 Nm	Power consumption	4 - 7 VA	
Rotation time	7.5, 15, 30, 60 s, for 90°	Input signal	4÷20 mA or 0÷10V dc	
Rotation angle	Standard 90°	Output signal	4÷20 mA or 0÷10V dc	
On request	From 20 ÷ 180°	Duty cycle	Continuos 100% ED	
Output shaft	□ 9,5 mm	End / Aux. switches rating	0,5 A / 48V dc and ac	
Ambient temperature	-10÷ +60 °C	Cable gland	2 x M20x1,5	
Enclosure	IP54 acc. IEC 529, IP65 on request	Weight	~ 2,5 Kg	

FEATURES

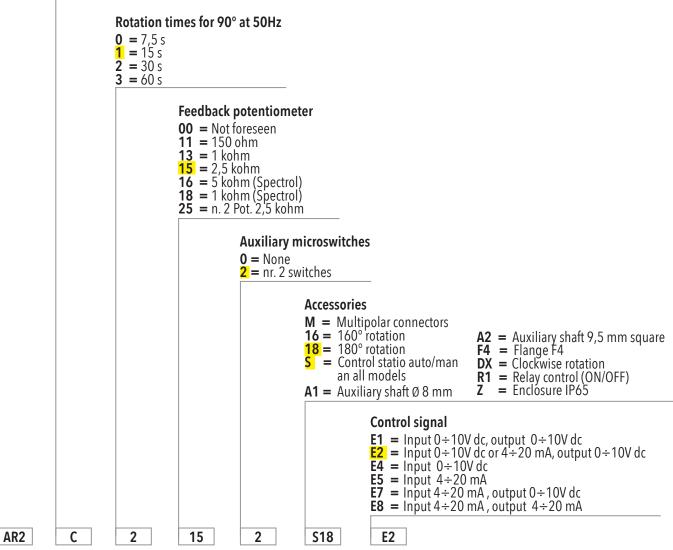
- Versatile installation in any position allows easy fitting to existing equipments
- Interchangeability with the most available gear motors
- Sturdy compact, balanced design, suitable for industrial applications
- External position indicator
- no 2 end switches + no 2 adjustable auxiliary microswitches with free electric contacts
- Manual/automatic control station and relay for phase cut
- Wide range of accessories on request:
 - 1 or 2 potentiometer range: 150 ohm to 2.5 kohm
 - Multipolar connectors for easy plug-in electric wiring
 - Auxiliary extended drive shaft Ø 8 mm or 🗖 9,5 mm (max. 3 Nm)
 - 160°, 180° or clockwise rotation on request

MODELS

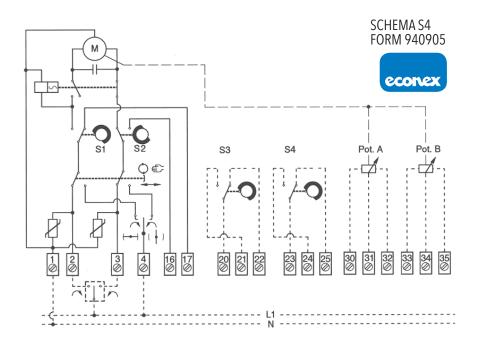
Models	Rated and maintenance torque (Nm)	Rotation time for 90° (50 Hz)	Power consumption (VA)	Weight (Kg)
AR2C0000	4	7 s	7	2,5
AR2C1000	7	15 s		
AR2C2000	15 / 11	30 s		
AR2C3000	20	60 s		

AR2 = Gear motor

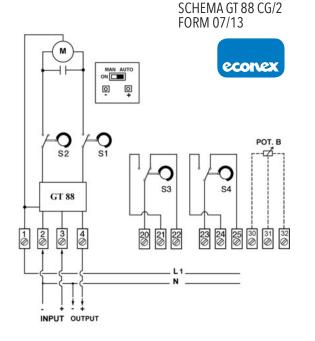
Supply voltage (50 - 60 Hz) $A = 24V \text{ ac} \pm 10\%$ B = 115V ac + 6% - 10% C = 230V ac + 6% - 10% $B / A = \text{With transformer } 115V / 24V \text{ ac} \sim C / A = \text{With transformer } 230V / 24V \text{ ac} \sim C$



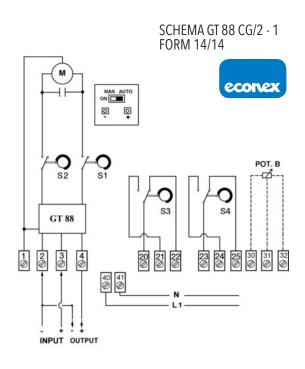
ELECTRIC FLOATING



ELECTRONIC ANALOGIC VERSION 24V



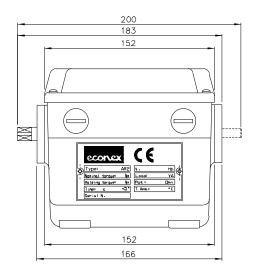
ELECTRONIC ANALOGIC VERSION 115 - 230V

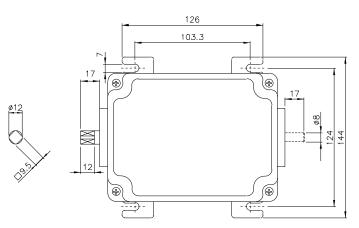


Use the proper lever supplied with the gear motor equipment for cam adjustment. Use the lever from the right side, introducing the pin into one of the bores on the sides of the blue cam and lever it to the desired position. If the blue cam is in a behind position, use the lever on its curved side to 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.

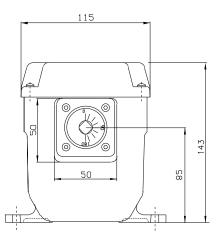


DIMENSIONS

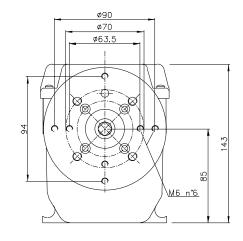




All the reported data are subject to be changed without notice.



FLANGE F4



from 180918

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