



## Electric actuator ER premier

Indice de protection

**IP65**

Enclosure protection

**20Nm**



**100Nm**

Facteur de marche

**30%**

Duty cycle

**ARA**<sup>®</sup>

**PNEUMATIK**

ul. Wyścigowa 38, 53-012 Wrocław  
tel. 71 364 72 82, ara@arapneumatik.pl

[www.arapneumatik.pl](http://www.arapneumatik.pl)



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## Description

90° IP65 electric actuator, PA6 housing UL 94 VO with secured manual override for torques of 20-35-60-100Nm and in accordance with CE-ROHS-REACH standards.



### Technical datas

Visual position indicator	Modular (handle for ER20)
Control	On-Off or 3-modulating points
Voltages	24V AC (50/60Hz) & 24V DC or 100V to 240V AC (50/60Hz) & 100V to 350V DC
Duty cycle	Service S4 - 30% (IEC34 standard)
Torque limiter	Electrical
Number of starts / hour <sup>1)</sup>	100
Drive nut	Star
Removable adaptation plates (ISO5211)	F03/F05 & F04 (ER 20)   F05/F07 (ER 35 & 60 & 100)
Number of limit switches	4 adjustable switches (5A max.)
Secured manual override	Decutching system and external shaft
Mechanical travel stops	90°
Electric connection	1 Connector 3P+T DIN43650 + 1 ISO M20 (3-position actuators : 2 ISO M20)
Temperature	-10°C to +55°C
Enclosure	IP65
Weight	1Kg to 2,1Kg
Warranty <sup>2)</sup>	3-year warranty or 50 000 actuations

<sup>1)</sup> Recommended use, see instructions notice.

<sup>2)</sup> Tested on testing bench in the worst conditions (maximal torque and duty rating).

### Options

Card with two extra limit switches (EFC.2)
100 / 1000 / 5000 / 10000 Ohms feedback potentiometer (EPR.B) <sup>3)</sup>
0-10V, 0-20mA or 4-20mA transmitter (EPT.C) <sup>4)</sup>
1 or 2 connector M12 3P+T (ECM.1 or ECM.2)
2ème connector 3P+T DIN43650 (ECD.1A)
Handle for manual override (EPR)

<sup>3)</sup> Specify the model.

<sup>4)</sup> Only for an operating time higher or equal to 10s.



Please consider 1.5 safety factor when sizing the actuator

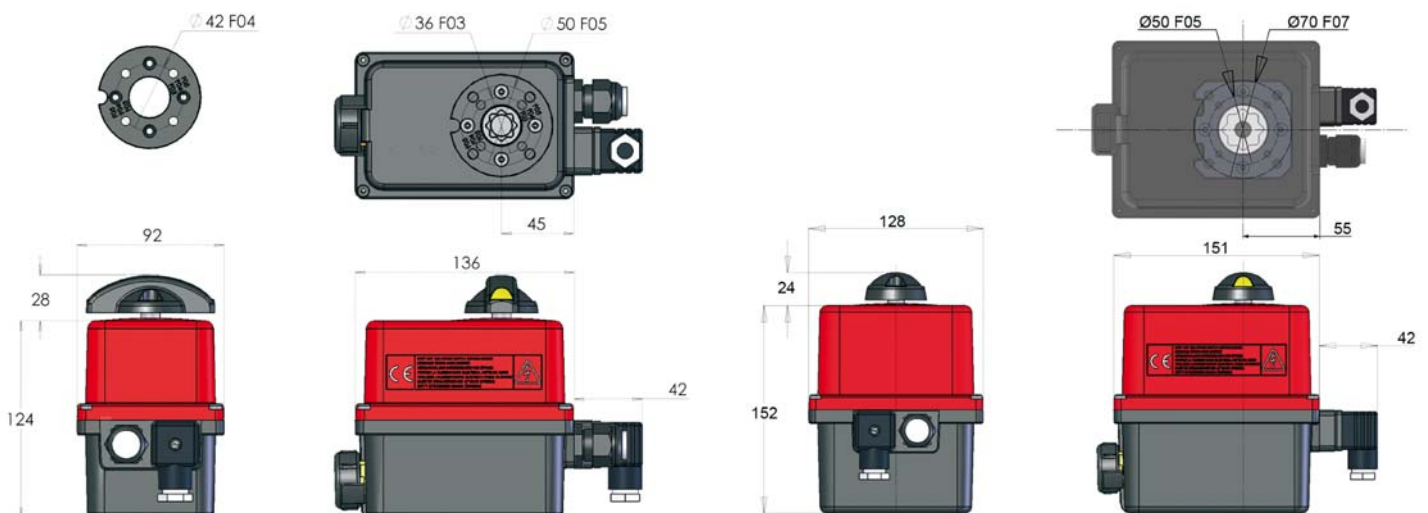
Code	Star drive nut Connection <sup>1)</sup>	Torque	Voltage supplies	Power	Operating time	
					Without load	With load
ER20.X0A.M00 <sup>2)</sup>	14 / F03-F04-F05	20Nm	100V to 240V 50/60Hz (100V to 350V DC)	15W	9s	13s
ER20.X03.M00 <sup>2)</sup>	14 / F03-F04-F05	20Nm	15V to 30V 50/60Hz (12V to 48V DC)	15W	7s	12s
ER35.90A.M00	22 / F05-F07	35Nm	100V to 240V 50/60Hz (100V to 350V DC)	45W	7s	8s
ER35.903.M00	22 / F05-F07	35Nm	15V to 30V 50/60Hz (12V to 48V DC)	45W	6s	7s
ER60.90A.M00	22 / F05-F07	60Nm	100V to 240V 50/60Hz (100V to 350V DC)	45W	14s	15s
ER60.903.M00	22 / F05-F07	60Nm	15V to 30V 50/60Hz (12V to 48V DC)	45W	10s	13s
ER100.90A.M00	22 / F05-F07	100Nm	100V to 240V 50/60Hz (100V to 350V DC)	45W	22s	25s
ER100.903.M00	22 / F05-F07	100Nm	15V to 30V 50/60Hz (12V to 48V DC)	45W	18s	22s

<sup>1)</sup> Reducing sleeves star 14 to square 9-11 or star 22 to square 17.  
<sup>2)</sup> X=removable plate F03/F05 or F04, can be ordered mounted.

## Dimensions

Type : ER20

Type : ER35 & 60 & 100



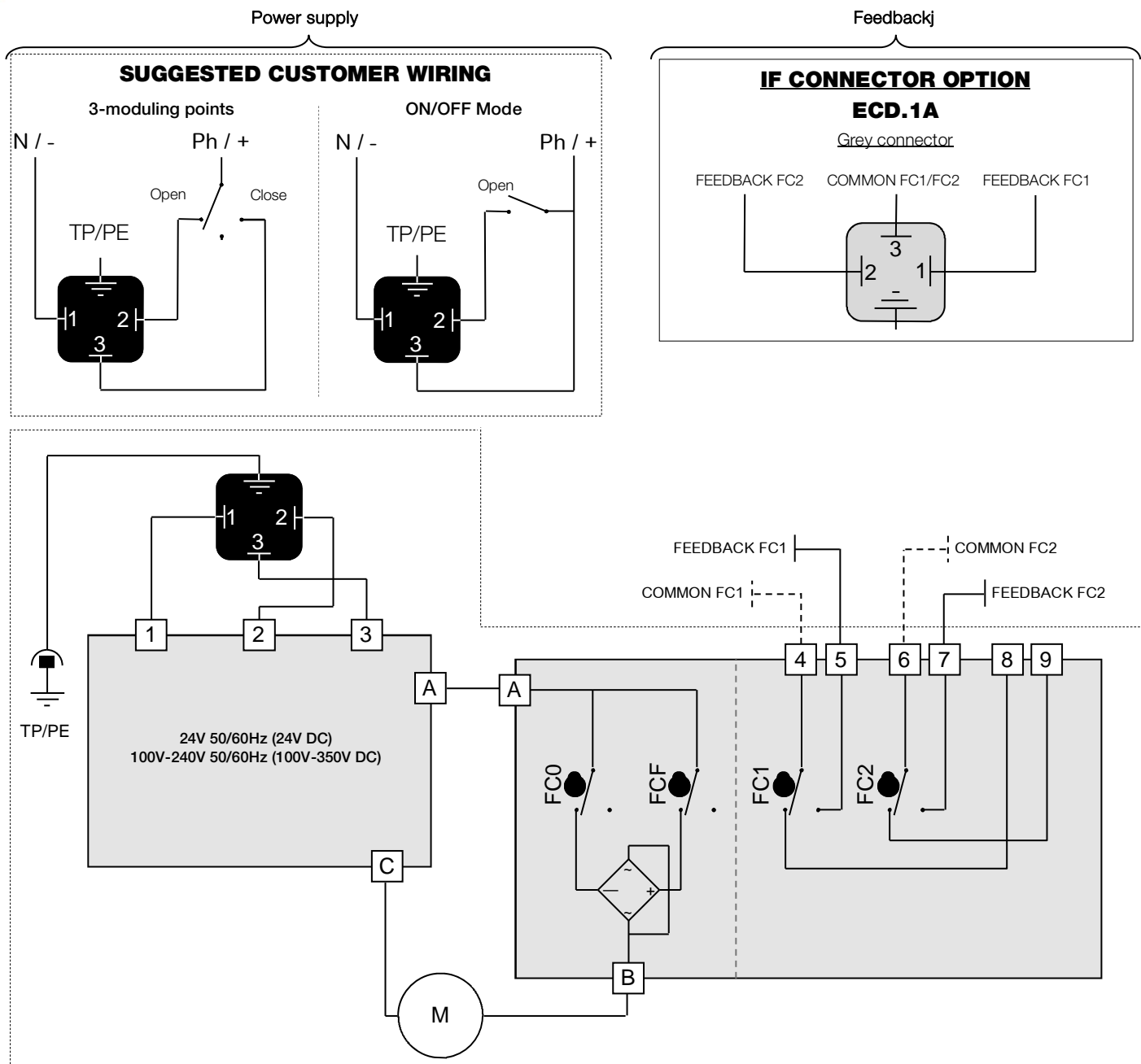
Please consider 1.5 safety factor when sizing the actuator

# Electric wiring

Rep.	Designation	Rep.	Designation
FC0	Open limit switch	FC1	Auxiliary limit switch 1
FCF	Close limit switch	FC2	Auxiliary limit switch 2



The terminal temperature can reach 90°C



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Z.I. Cent'ralp • 89 rue des étangs • 38430 Moirans France  
Tél. +33 (0) 4 76 35 06 06 • Fax +33 (0) 4 76 35 14 34  
Valpes-info@wattswater.com • www.valpes.com