



# MAC140-F..

## New Servo Motor - next generation MAC motor - generation 3



Preliminary

JVL is proud to announce a completely new generation of Mini-MAC (50-141 W) servo motors. This new motor family is based on previous designs and customer feedback collected for many years and offers a wide pallet of options and possibilities which makes this product fit into almost any application.

### Key features

- High dynamic servo regulator
- Industrial Ethernets - 6 protocols
- Absolute multiturn encoder unlimited down time (no battery!)
- Safe Torque Off (STO) input
- Wide supply range 7 to 48 VDC
- Very energy efficient
- Brake control (ext. brake)
- 0 – 4000 RPM / 50 – 140 W
- Protection class up to IP67
- Wide program of option modules
- Connectors: M12 industrial



Encompass™  
Product Partner

A ROCKWELL AUTOMATION PARTNER



# JVL - your global partner



JVL A/S is a Danish company with subsidiaries in Germany, UK, USA and Turkey. And we have distributors and partner companies in more than 30 countries world-wide – sales and support are always nearby.



Coming soon

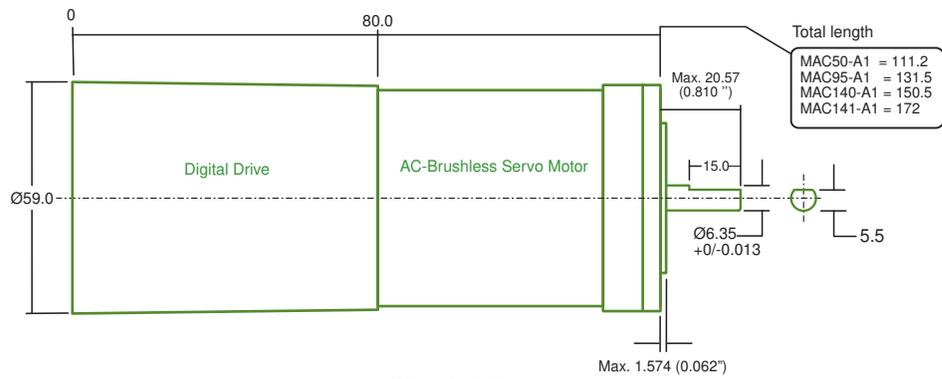
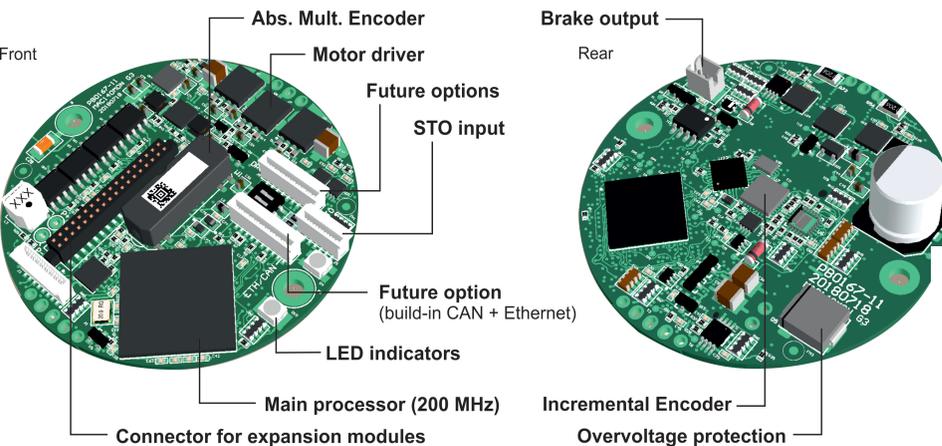
Technical specifications	MAC050	MAC095	MAC140	MAC141	MAC220
Supply voltage	7-48 VDC	7-48 VDC	7-48 VDC	7-48 VDC	7-48 VDC
Speed range (nominal)	0-4000 RPM	0-4000 RPM	0-4000 RPM	0-2700 RPM	0-4000 RPM
Rated power @4000/3000 RPM	46 W	92 W	134 W	134 W	220 W
Cont. torque @T.Amb. -25°C	0.11 Nm	0.22 Nm	0.32 Nm	0.48 Nm	0.52 Nm
Peak torque @T.Amb. -25°C	0.32 Nm	0.62 Nm	0.9 Nm	1.59 Nm	1.5 Nm
Rotor Inertia	0.075 kgcm <sup>2</sup>	0.119 kgcm <sup>2</sup>	0.17 kgcm <sup>2</sup>	0.23 kgcm <sup>2</sup>	0.17 kgcm <sup>2</sup>
Encoder resolution (standard)	4096/8192 CPR				
Absolute Encoder (Turns)	± 18 Bit (2 <sup>18</sup> )				
Flange dimensions	58.7x58.7 mm				

## What is new?

- Absolute multiturn encoder harvesting technology without battery or gear
- Ethernet high performance similar to other MAC motors
- More advanced FOC filter for lower noise and better motor performance
- New Mosfet technology for higher efficiency and cooler motor
- Encoder resolution 8196 CPR. Higher resolutions soon to come
- STO or Brake connector optional

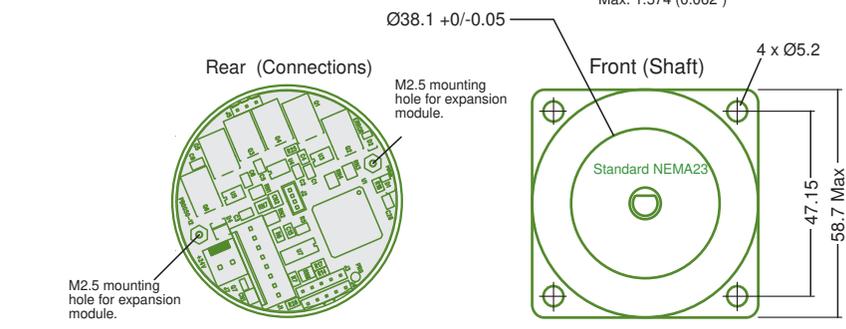
## Power supplies and cables

Power supplies and cables for all types of set-up can be delivered as required. In this way installation is fast and easy for our customers. Please see our complete product line at [www.jvl.dk](http://www.jvl.dk).



## IP67 protection

IP67 versions can also be delivered. They are resistant to rough chemicals and ideal for use in food processing, pharmaceutical, medico and chemical industries. They come with a maintenance free teflon shaft sealing, leak-proof cable entry and stainless steel flange and shaft.



All dimensions in mm