

## MAC 140-141W motors in watertight versions

### MAC140-141 series of servo motors in watertight versions

The watertight IP67 models of these motors meet a specific need: for applications in the foodstuffs industries where very aggressive cleaning agents are used. These versions of the integrated MAC motors are fully protected by a thick layer of chemically resistant epoxy and have a stainless-steel axle and flanges.

The motors offer the following features:

- A thick protective layer of epoxy on the motor and housing.
- Double axle sealing and watertight cabling.
- High resistance to aggressive chemicals.
- An economic solution for motion in wet and aggressive environments.
- An ideal solution for the food-processing, pharmaceutical and chemical industries.
- Completely watertight functionality for immersed applications.

The modular construction of JVL's integrated MAC motors makes the IP67 models of the motors particularly well suited for a wide range of applications. Several different IP67 modules can be supplied for adapting to various applications:

LD0059-02GB



IP67 version, standard model - MAC140-A3 (0.32 Nm - 4.000 rpm.)



IP67 version for FDA requirements in the USA - MAC141-A3AACA (0.48Nm - 2700rpm.)

- NanoPLC with 8DI + 4DO, offers stand-alone de-central control – minimising wiring and cabling
- RS 485/422
- CANopen
- Profibus
- DeviceNet

- Electronic gearing, Pulse/ Direction
- Screw terminals or M12 connectors

For further information, please see the data sheet for the 50W-134W MAC motors (LD0043).



## Shaft sealing

The Shaft sealing is IP67 Rulon® teflon made with very low friction and which require no lubrication.

Rulon® is a specially compounded form of TFE fluorocarbon (teflon) and other inert ingrediants.

Rulon A was introduced to industry in 1952 as a plastic bearing material with low coefficient of friction and an excellent abrasion resistance to corrosion. It immediately found a great

number of applications as a bearing material because it required no lubrication and was capable of performing under severe temperature -200 to 290 °C (-400° to +550°F.) and corrosive conditions.

Rulon A has a 1,000-fold increase in wear resistance over TFE, lower deformation under load, greater stiffness and higher compressive strength.



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