



## MP JET ELECTROMOTOR AC 28/7-35 D

We thank you for having bought our product and hope that it will quite comply with your requirements. We recommend you to study this instruction. Observance of the directions stated here will ensure you operating without problems, achieving of a good output and a corresponding service life of the engine.

### TECHNICAL SPECIFICATION OF ELECTROMOTOR

- three-phase AC synchro motor
  - recommended for direct drive
  - with external rotor
  - FeNdB magnets
  - winding impregnated high-temperature epoxy resin
  - dual ball bearing with long life grease
  - high speed ball bearings
  - rotor turned from bar stock on CNC machine
  - heat treated shaft 3 mm dia
  - recommended connectors MP JET 2,5 mm size
  - the possibility to use the motor mount in two position (for troublefree change from electromotor MP JET AC 25/25-26 with gearbox)
- Recommend regulator: three-phase, sensorless (with EMF detection version), suitable version 18A, 12A partially.

### MOUNTING DRIVE UNIT TO MODEL KIT

The electromotor mounting on the firewall with three Pan Head screws 2,2x6,5. The motor mount is possible to use in two position. In position from the producer of the electromotor it has the same mounting sizes like electromotor MP JET AC 25/25-26 with gearbox for troublefree change. In second position (reverse) is the distance of the propeller from firewall longer. It is good for models with motor cover.

The firewall must be rigid and with the holes for cables from electromotor to ESC. Please make the holes in the front of the motor cover for air ventilation for cooling the electromotor.

#### The mounting of the propeller:

For folding propeller use one of the propeller spinners with a collet 3 mm dia, for non folding propeller a collet prop adapter MPJ 8031 or 8031 – select the type of the collet directly for your propeller (MPJ 8030 for APC SF - narrow hub, MPJ 8031 for APC E or other - wide hub).

### CONNECTING ELECTROMOTOR TO REGULATOR

The electromotor has a soldering points for direct soldering of the cables from ESC. The second possibility is use MP JET connectors and cables set (MPJ 20221). The soldering must be under temperature control, power heating of the soldering point can damage rear cover. Recommended temperature is under 280°C and short cycle (the same condition like soldering of electronic chips).

Connectors must be disconnected by being pulled from the connector parts, without applying any force on the cable (or being pulled from the motor unit). For change of the direction of run change please two from three cables between ESC and electromotor.

### COOLING

It is necessary to ensure cooling - inlet and outlet holes. The outlet holes must be approx. 1,5 bigger than the inlet ones.

### MAINTENANCE OF ELECTROMOTOR

The ball bearings have a longlife high quality grease, they can be changed if necessary. Avoid penetration of magnetic parts, dirt or water into the electromotor.

### IMPORTANT SAFETY ADVICE

- the propeller must be undamaged and balanced
- propeller driver must be all metal, collet type. The type with socket head screws is not recommended.
- make sure that the onlookers stay at a safe distance when the motor runs
- use only propellers recommended for this power
- first switch on your transmitter, check the position of the throttle stick (and related switches if there are any). Only then connect your power pack to the speed controller and switch on the receiver.
- follow the manual of your regulator
- do not use the motor for other applications (non modeling use).
- this position product and this manual are subject to change without notice

### GUARANTEES

All electromotors are controlled and tested before purchase. Full guarantee for manufacturing and material defects is valid one year from the purchase date. The guarantee covers none of the following:

- improper mounting and overheating
- using the motor for other purposes than recommended
- periodic maintenance and repair or replacement of parts due to normal wear
- repair costs by non-authorized services or the customer himself

Number of cells NiCd or NiMh	7-10
Number of cells LiPol	3
RPM per Volt	950
Maximum recommend speed (min <sup>-1</sup> )	12000
Maximum speed (min <sup>-1</sup> )	15000
Maximum efficiency (%)	approx. 79
Current for maximum efficiency (A)	to 8
Short time current (A)	12
Internal resistance (mΩ)	110
Dimensions - diameter/ length (mm)	35,5/33
Shaft diameter (mm)	3
Number of turns	35
Weight of electromotor (g)	56
Recommend propeller range	APC 7/3 - 9/6 (10/4,7)
Maximum weight of glider (g)	to 750
Maximum weight of acrobatic model (g)	to 500

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