MOTOR SPECIFICATION SHEET

IDP Card Printer Replacement Motor

Identification

IDP Part Number	633014
Manufacturer	Tronsun Motor
Manufacturer Model	25GA370K-26-24150
Description	24V DC Precision Metal Gear Motor
Used In	IDP SMART-21, SMART-31, and SMART-51 Card Printers
Connector	4-pin connector

Electrical Specifications

Parameter	Value
Rated Voltage	24 V DC
No-load Speed	150 rpm
Gear Ratio	≈ 26:1
Typical No-load Current	0.05 – 0.10 A
Typical Rated Torque	1.0 – 2.0 kg·cm
Typical Stall Torque	3 – 6 kg·cm
Motor Type	Brushed permanent-magnet DC
Gearbox Type	Precision metal spur gears

Mechanical Specifications

Parameter	Value
Gearbox Diameter	25 mm
Shaft Diameter	4 mm (D-shaped / flat)
Approximate Weight	95 g
Mounting	Two M3 holes (17 mm spacing)
Gearbox Length (approx.)	21 mm (for 26:1 ratio)

Notes & Application Information

- Direction of rotation is reversed by swapping the polarity of the supply voltage.
- Metal gearbox provides higher durability and load capacity than plastic-gear equivalents.
- Designed for continuous duty in card printer mechanisms (ribbon drive / card transport).
- Avoid prolonged stall conditions to prevent overheating.
- Compatible with IDP SMART-21, SMART-31, and SMART-51 series card printers (Part #633014).

Specification sheet generated for reference. Performance values are typical for the 25GA370 series and may vary slightly by production batch. Always verify fit and function before installation.