

Harsh Environment Drives Rayon 70 & Rayon 300

Highly efficient drives that can power low voltage motors up to 12 kW. Designed to meet military standards, these drives are optimized to ensure durability in rugged equipment and harsh environments.



Ensured durability

Designed for compliance with MIL-STD-810, the Rayon 70 and Rayon 300 drives are resistant to extreme temperature, shock, vibration, and humidity conditions.

- Impervious to extremely hot, cold, or rapidly fluctuating temperatures between -40°C and +85°C.
- Resistant to the effects of warm and humid environments.
- Resilient to physical impact in handling, transportation and service environments.
- Able to withstand to intense shaking and vibration, with ruggedized connectors.

Supporting multiple types of motor feedback

The Rayon harsh environment drives meet any resolution requirement ranging from simple positioning to precise and dynamic applications. They support common motor feedback devices, including SSI encoders, incremental encoders with Hall sensors, and sine/cosine encoders.

Application examples

The Rayon 70 and Rayon 300 drives are ideal for a broad range of motion control applications operating in harsh environmental conditions:

- Robotics
- Aerospace and defense
- Agriculture
- Intralogistics and shuttle systems
- Unmanned systems, such as UAVs, UGVs, and drones
- Mobile and battery-powered applications, such as power-tools, vision systems, and antenna systems

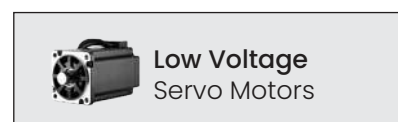
Key benefits

- High current, low voltage servo drives
- Ideal for rugged environments
- Near-motor mounting for applications with tight space constraints
- Support DC or brushless motors
- Support multiple types of motor feedback (SSI, incremental, sine/cosine)
- Customizable connector and cable interfaces



Simple commissioning Motor Controller GUI with comprehensive parameterization and scope analyzing options.

Related products



Rayon 70



Motor Power
2–2.6 kW

Mounting
Wiring, D-type

Digital I/Os
3 x Input
2 x Output

Analog I/Os
1 x Input

Operational Conditions
Temperature: -40–85°C

Motor Feedback
Incremental encoder
Hall sensors
SSI encoder
Sine/cosine encoder

Model	Communication	Input bus (VDC)	Optional input logic (VDC)	Continuous current (Arms)	Peak current (Arms)	Width (mm)	Depth (mm)	Height (mm)
RD000139	RS232 CAN	12–48	24	55	100	67	120	34
RD000149	RS422	12–48	24	55	100	67	120	34
RD000301	Cable set for Rayon 70							

Rayon 300



Motor Power
8–12 kW

Mounting
Screws

Digital I/Os
4 x Input
3 x Output

Analog I/Os
1 x Input

Operational Conditions
Temperature: -40–85°C

Motor Feedback
Incremental encoder
Hall sensors
SSI encoder
Sine/cosine encoder

Model	Communication	Input bus (VDC)	Optional input logic (VDC)	Continuous current (Arms)	Peak current (Arms)	Width (mm)	Depth (mm)	Height (mm)
RD000119	RS232 RS422 CAN Ethernet	12–48	24	250	750	160	190	65
RD000146	Cable set for Rayon 300							

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