PGD-Ai WashDown 24V

High torque, efficiency and IP66 sealing combined for all conditions.

The PGD-Ai WashDown 24V is specifically engineered for damp environments and provides exceptional durability and performance, where moisture resistance is critical, As a relatively small gear motor it is the perfect product for tight spaces. It gives you the opportunity to standardise your controls architecture and bus systems in your complete system, which results in higher efficiency.

General Technical Data

- **Voltage:** 24V DC
- **Nominal Output (mech.):** 50W
- **Protection Class:** IP54
- **Rated Current:** ECO: 2,5A | BOOST: 3,5A
- **Starting Current:** ECO: 3,0A | BOOST: 5,0A
- **Connection:** M8 - 4Pin Connector
- **Ambient Temperature:** -10°C – +40°C
- **Ambient Humidity:** 10% – 90% (No Condensation)
- **Implementation Options:** WashDown
- **Certifications:** UL, CE, UKCA, RoHS, REACH

Characteristics Data for PGD-Ai WashDown 24V

Gear Ratio	Gearbox	Max. Speed min-1*		Rated Torque Nm		Acceleration Torque Nm	
		Eco	Boost	Eco	Boost	Eco	Boost
67:1	3-stage	86	62	4,02	7,24	6,63	11,94
45:1		129	93	2,70	4,86	4,46	8,02
33:1		176	127	1,98	3,56	3,27	5,88
27:1		215	156	1,62	2,92	2,67	4,81
18:1	2-stage	316	229	1,20	2,16	1,98	3,56
15:1		387	280	1,00	1,80	1,65	2,97
11:1		527	382	0,73	1,32	1,21	2,18
9:1		644	467	0,60	1,08	0,99	1,78

* The speed can be reduced to 10% with our controls. Recommended working range 100% to 50%.

Benefits

- **Reliable mechanical design**
- **Versatile in use**
- **Replaces classical pneumatics**
- **Precise positioning**
- **Excellent life expectancy**
- **High overload capacity**
- **High acceleration torque**

Features

- **IP66 sealing**
- **Brushless 24V DC motor**
- **Double bearing output shaft**
- **External motor controller**
- **M8-4Pin standard connector**
- **Internal data memory**
- **Remote control versatility and diagnostics**

M8-4Pin standard connector

M8-4Pin standard connector on ConveyLinx-Ai2 24V

The PGD-Ai WashDown is distinguished by its special housing, designed to deliver optimal protection in wet conditions. The sealing system and housing have undergone rigorous testing in accordance with IP66 standards, ensuring maximum resistance against water and dust ingress.

With integrated Ai technology, the PGD-Ai WashDown offers unparalleled versatility as a servomotor, making it ideal for a broad range of applications. Whether used in conveyor systems, automation, or other industrial setups, this motor ensures reliable performance in challenging environments.

The PGD-Ai WashDown uses the same control systems as Pulseroller's motorised rollers, guaranteeing seamless control continuity within your systems. This unified approach simplifies system design and enhances operational efficiency, allowing for optimally coordinated control across all components.

You can decide how you want to control your gear motor!

EasyRoll+

EasyRoll+ is our self-developed ZPA mode tool for flawless and user-friendly use of our PGD-Ai in combination with an Ai control of your choice.
For example, you have the option of creating offline projects and uploading them to your online project later. It is also possible to read out the individual modules for diagnostic purposes using the integrated backup viewer and thus also view the power and performance of the gear motor.

PLC-I/O mode

As an alternative to our EasyRoll+ software, you can also use the PLC-I/O mode and control it with the ProfiNet, EtherNet-IP, Modus and CC-Link fieldbus systems

All mentioned field busses of ConveyLinx family operate on one hardware. Pulseroller provides for each of those field busses required driver software individually designed for respective PLCs.

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Learn more about us!