

## Simply genius –

ECDriveS® drive system  
for light load conveyor technology



## ECDriveS®

### The new drive system for light load conveyor technology

ECDriveS® technically stands for **E**lectronically **C**ommutated **D**rive **S**ystem, a brushless DC gear-motor. However, ECDriveS® also stands for “easy drive” – the simple, efficient and cost-cutting drive solution for roller conveyors from SEW-EURODRIVE.

#### **ECDriveS® is straightforward: plug it in – ready – that’s what “easy drive” means**

- DC drives – optimized for the lower power range of roller conveyors in light load conveyor technology
- Simple handling
- High degree of flexibility
- Simple integration and startup
- Impressive endurance and durability in operation



The ECDriveS® drive system is therefore the perfect addition to our broad product portfolio of standard gearmotors, motor starters and decentralized drives for intralogistics in the lower power range.

#### **Overview of ECDriveS®**

- Brushless DC gearmotor that is directly integrated into the roller conveyor and is also universally usable
- External commutation electronics with ethernet-based zone controls or binary control. Ethernet controls feature integrated conveyor logistics that can provide both conveying with zero pressure and decentralized solutions for a wide range of other conveying tasks
- 250% overload capacity at 40 W S1 power rating
- Optimized gear unit construction for a long service life, even at high capacity utilization
- Precise positioning of the material to be conveyed thanks to integrated encoder

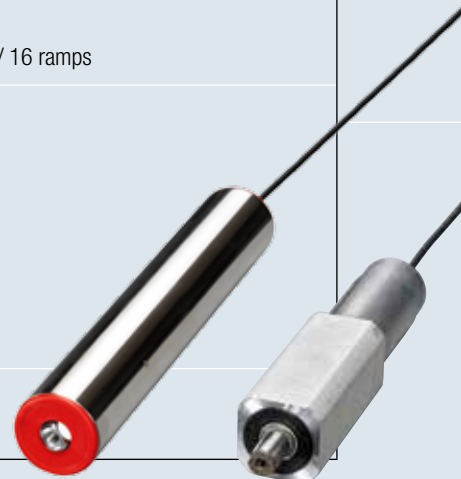
## Technical data

### Gearmotor

|                                        | Driven roller,<br>ECR-type ECDriveS® | Gearmotor,<br>ECG-type ECDriveS® |
|----------------------------------------|--------------------------------------|----------------------------------|
| Number of gear unit ratios<br><i>i</i> | 11                                   | 9                                |
| Max. velocity                          | 0.04 – 5 m/s                         | 8.5 – 645 rpm                    |
| Max. acceleration torque<br>Nm         | 9.6                                  | 14.3                             |
| Max. brakeaway torque<br>Nm            | 21                                   | 32                               |
| Nominal current<br>A                   | 2.5                                  |                                  |
| Maximum current<br>A                   | 8                                    |                                  |
| Degree of protection                   | IP54 (IP66 optional)                 |                                  |
| Temperature range                      | -10 – 40 °C (-30 °C optional)        |                                  |

### Electronics

|                      | Direct fieldbus control,<br>ECC-DFC-type ECDriveS®                                                                                                                                                                                                                                                 | Direct binary control,<br>ECC-DBC-type ECDriveS® |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| Nominal voltage<br>V | 24                                                                                                                                                                                                                                                                                                 |                                                  |
| Communication        | Ethernet protocols:<br>PROFINET, EtherNet/IP™,<br>Modbus/ TCP, EtherCAT®                                                                                                                                                                                                                           | 3 DI + error output                              |
| Configuration        | ECDriveS® PC-Tool ECShell                                                                                                                                                                                                                                                                          | DIP switch<br>32 speeds / 16 ramps               |
| Functions            | <ul style="list-style-type: none"> <li>– Precise ramps</li> <li>– Positioning</li> <li>– Zero pressure accumulation (ZPA),<br/>FlexZone, merger, tracking</li> <li>– Torque-on-demand</li> <li>– Automatic configuration</li> <li>– Automatic sensor recognition</li> <li>– Diagnostics</li> </ul> |                                                  |
| Degree of protection | IP54                                                                                                                                                                                                                                                                                               | IP20                                             |



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## How we're driving the world



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Driving the world

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