

### Short Description

This drive was specially developed for AGVs and AMRs, which are operated differentially. It is characterised by its compactness and the ability to carry high wheel loads.

It offers maximum safety and precision thanks to the integrated holding/emergency stop brake and a high-resolution encoder system for motor commutation.

Its optimised design creates more space in your vehicle for important components such as power supply and automation technology.



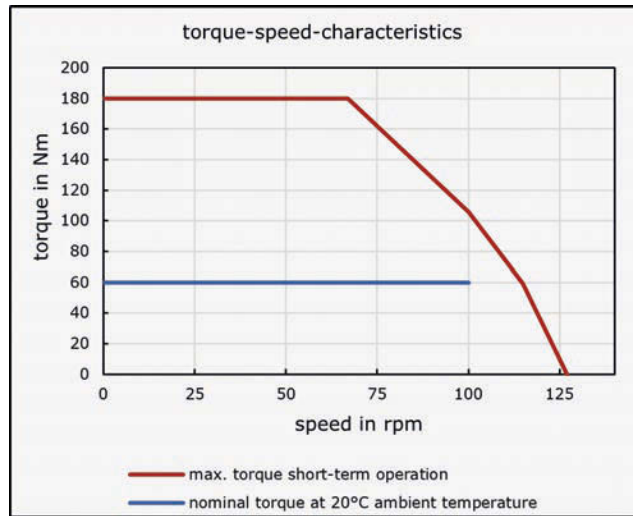
### Key Features

- **Compact design** for a light, space-saving vehicle design
- **High efficiency and maximum effectiveness** through synchronous technology
- **Maintenance-free** through a lifetime lubricated gearbox
- **Optimum regulation** to standstill when using the MTA motor controller
- **Simple replacement** of the wheels
- Maximum **robustness** through the use of high-quality components

### Technical Data

| Description         |   |
|---------------------|---|
| Nominal voltage     | 24 VDC  |
| Nominal power       | 630 W   |
| Nominal Speed       | 100 rpm   |
| Nominal torque      | 60 Nm   |
| Maximum torque      | 180 Nm  |
| Nominal current     | 34 Arms   |
| Maximum current     | 97 Arms   |
| Ambient temperature | 0 ... 40 °C   |
| Encoder             | magnetic encoder, 5 VDC, 1024 ppr                           |
| Brake               | Holding-/emergency stop brake, spring-applied, 24 VDC, 5 Nm |
| Temperature sensor  | PT1000  |
| Protection class    | IP54  |

## Characteristics



## Connections

### Motor cable length 2.0 m with flying leads

| Signal | Wire colour / label |
|--------|---------------------|
| U      | black / 1           |
| V      | black / 2           |
| W      | black / 3           |
| n.c.   | green-yellow        |

### Brake cable length 2.0 m with flying leads

| Signal | Wire colour / label |
|--------|---------------------|
| +      | black / 1           |
| -      | black / 2           |

### Signal cable length 2.0 m with flying leads

| Signal   | Wire colour / label |
|----------|---------------------|
| PT1000 + | blue                |
| PT1000 - | white               |
| GND      | green-brown         |
| 5 V      | green-white         |
| I -      | violet              |
| I +      | yellow              |
| B -      | pink                |
| B +      | gray                |
| A -      | black               |
| A +      | red                 |
| PWM -    | green               |
| PWM +    | brown               |

## Dimensions

