# SMD50

*Compact servo drive with maximum freedom in mechanics, control and system integration*

## Applications

The SMD50 was developed for applications that require maximum flexibility in the design of the drive system. Without a permanently attached gearbox, the mechanical connection can be optimally adapted to the respective application.

For electrical integration, variants with an integrated Motor Controller as well as versions for operation on customer-provided servo controllers are available. Different encoder systems can be integrated into the third-party controller variant to enable optimal integration into existing automation and control concepts.

Typical areas of application are swivel drives, positioning systems, lifting axes, rejection units and customer-specific automation solutions.



## Features & Benefits

- **Free choice** of mechanical connection and gearbox solution
- **Optionally with integrated Motor Controller** or for third-party controllers
- **Flexible integration of different encoder systems**
- **Easy integration** into existing control architectures
- **High dynamics and precise movement control**
- **Compact design** for tight installation spaces
- **Ideal for customized machine and automation solutions**
- **Future-proof platform** for individual drive concepts

## Technical data Version with integrated Motor Controller

| | | SMD50I-AA | SMD50I-BB |
|---|---|---|---|
| Rated voltage | VDC | 24 | 48 |
| Rated power | W | 100 | 120 |
| Output speed | rpm | 6900 | 6900 |
| Rated torque | Nm | 0.14 | 0.16 |
| Maximum torque | Nm | 0.63 | 0.63 |
| Rated current | ADC | 5.9 | 3.4 |
| Maximum current | ADC | 28.6 | 12.2 |



| | Configuration |
|---|---|
| Interfaces | I/O or CAN |
| Maximum noise level | < 49 dB(A) |
| Output shaft * | prepared for mounting planetary gearbox |
| Ambient temperature | 0 °C ... 40 °C |
| Protection class | IP54 |

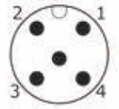
* Other versions can be realized on request

## Connections supply

| Pin | Description | Presentation |
|---|---|---|
| 1 | 24 V / 48 V |  M16 / 3-pin (3x2)/male |
| 2 | GND | |
| 3 | n.c. | |



## I/O and CAN connections

| Pin | CAN version | I/O version | Presentation |
|---|---|---|---|
| 1 | Shield | 24 VDC |  M12 A-coded / 5-pin/male |
| 2 | DI | DI | |
| 3 | CAN-GND | GND | |
| 4 | CAN high | DO | |
| 5 | CAN low | AI | |



## Dimensions

| L |
|---|
| 115.6 |

