# *DMG8x-D*
## *for pallet conveyor technology*

*Drum motor for 400 VAC pallet conveyor technology for easy integration into classic frequency converter systems.*

### *Applications*

Powerful drum motor for pallet conveyor technology, designed for the reliable transport of heavy loads.

It impresses with its robust construction, high power density and stable operation even under demanding operating conditions in heavy-duty transport.




### *Features & Benefits*

- **400V technology**: Integration into classic 400 V pallet conveyor technology.
- **Powerhouse for up to 1500 kg**: Designed for the reliable transport of heavy pallet loads in conveyor technology.
- **Integrated rotary encoders** for operation on decentralized drive controllers.
- **Up to 1.1 m/s conveying speed**: Powerful drive for dynamic and continuous material flows.

### *Technical data*

| Type | | DMG80-DH07 / DMG89-DH07 | DMG80-DH50 / DMG89-DH50 |
|---|---|---|---|
| Rated voltage | VAC | 400 | 400 |
| Rated power (S3) | W | 572 | 432 |
| Rated power (S1) | W | 311 | 235 |
| Speed | m/s | 0 - 2.39 / 0 - 2.66 | 0 - 0.34 / 0 - 0.38 |
| Nominal torque (S3) | Nm | 9.40 | 51.60 |
| Nominal torque (S1) | Nm | 5.10 | 28.1 |
| Maximum torque | Nm | 44.0 | 125.0 |
| Rated current | Arms | 0.7 | 0.6 |
| Maximum current | Arms | 2.4 | 2.4 |



| | Configuration |
|---|---|
| Rotary encoder | Resolver or magnetic encoder |
| Maximum noise level | < 62 dB(A), application dependent |
| Temperature sensor * | PTC |
| Length of connecting cable | 500 mm |
| Pipe dimensions | Ø 80 x 3 mm / Ø 89 x 3 mm |
| Pipe material * | Galvanized steel |
| Ambient temperature * | 0 °C ... 40 °C |
| Protection class * | IP54 |

* other versions on request

### *Motor cable connections*

| Pin | Signal | Presentation |
|---|---|---|
| 1 | Motor phase U |  M16 / 3-pin (3x1)/male |
| 2 | Motor phase V | |
| 3 | Motor phase W | |



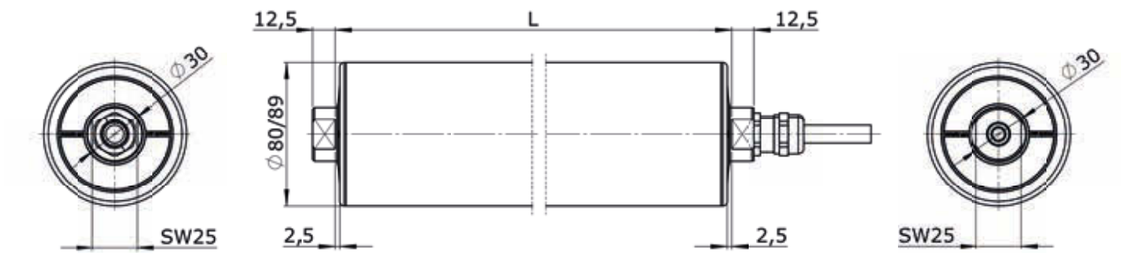
### *Resolver connections*

| Pin | Signal | Presentation |
|---|---|---|
| 1 | Reference+ |  M16 / 18-pin/male |
| 2 | Reference- | |
| 3 | Cosine+ | |
| 4 | Sine+ | |
| 5 | Cosine- | |
| 6 | Sine- | |
| 7-18 | n.c. | |

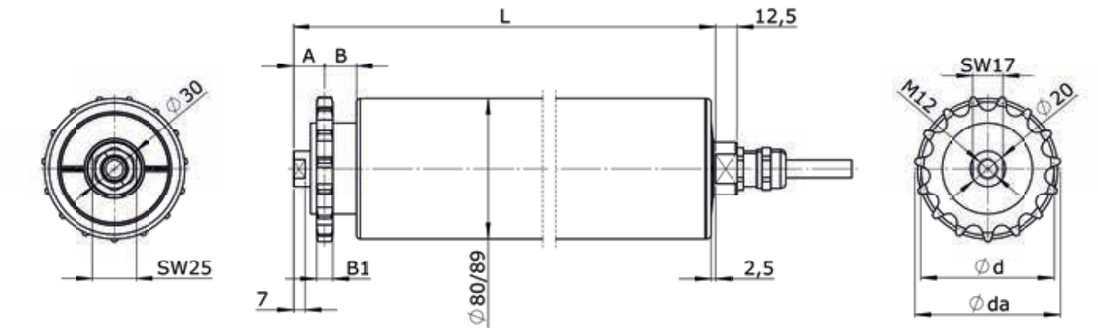
## *Magnetic encoder connections*

| Pin | signal | Presentation |
|---|---|---|
| 1 | GND 5 V |  M16 / 18-pin/male |
| 2 | Supply 5 V | |
| 3 | I- | |
| 4 | I+ | |
| 5 | B- | |
| 6 | B+ | |
| 7 | A- | |
| 8 | A+ | |
| 9 | PWM- | |
| 10 | PWM+ | |
| 11 | Temp- | |
| 12 | Temp+ | |
| 13 | Brake (GND) | |
| 14 | Brake (24 VDC) | |
| 15-18 | n.c. | |

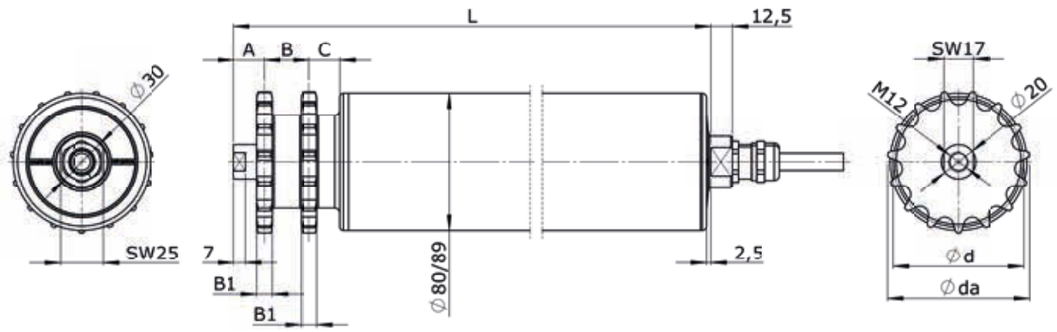
## *Mechanical execution*



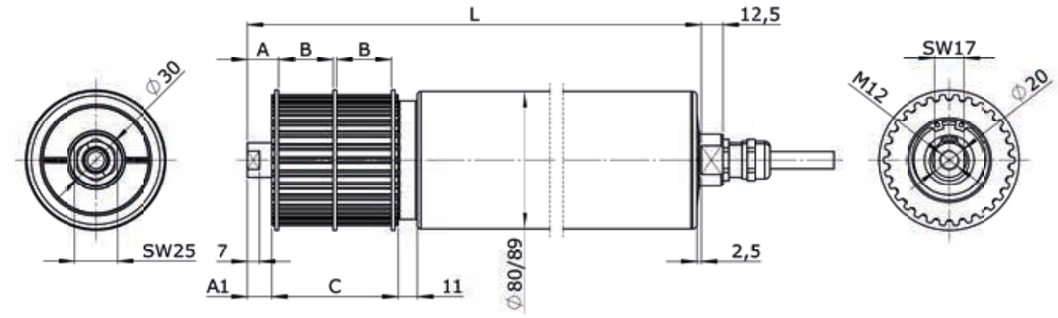

smooth




Single sprocket




Double sprocket




Timing belt pulley

| Variable | Single sprocket [mm] | Double sprocket [mm] | Timing belt pulley [mm] |
|---|---|---|---|
| A | 18 | | |
| B | 18 | 26 | 32 |
| C | - | 18 | 73.7 |
| A1 | - | - | 14.15 |
| B1 | 9.1 | | - |
| L | clamping length | | |
| Ød | 76.36 | | - |
| Øda | 83 | | - |
| Number of teeth | 15 | | - |

# SEAMLESS INTEGRATION INTO YOUR 400 VAC DRIVE ARCHITECTURE

## *400 VAC drum motors with flexible control and individual system connection*

Our drum motors are designed for operation on common frequency converters and servo controllers. Depending on the application, we provide the required encoder interface or enable reliable sensorless operation.

This means you benefit from a drive solution that is optimally tailored to your conveyor system – including competent support with system integration.

