

# Product datasheet

Specifications



## integrated servo motor - 1.7 Nm - 6000 rpm - multiturn - with brake

ILM0702P02F0000

EAN Code: 3606485293783

### Main

|                           |                              |
|---------------------------|------------------------------|
| Range of product          | PacDrive 3                   |
| Product or component type | Servo motor integrated drive |
| Device short name         | ILM                          |

### Complementary

|                           |                                                           |
|---------------------------|-----------------------------------------------------------|
| [Us] rated supply voltage | 250...700 V                                               |
| Continuous stall current  | 2.5 A                                                     |
| Continuous stall torque   | 1.7 N.m                                                   |
| Peak stall torque         | 7.6 N.m                                                   |
| Nominal output power      | 720 W                                                     |
| nominal torque            | 1.15 N.m                                                  |
| Nominal speed             | 6000 rpm                                                  |
| Maximum current Irms      | 11.8 A                                                    |
| [In] rated current        | 1.5 A                                                     |
| Shaft end                 | Untapped                                                  |
| Second shaft              | Without second shaft end                                  |
| Shaft diameter            | 11 mm                                                     |
| Shaft length              | 23 mm                                                     |
| key width                 | 18 mm                                                     |
| Feedback type             | Absolute multiturn SinCos Hiperface                       |
| Speed feedback resolution | 128 periods                                               |
| Holding brake             | With                                                      |
| Holding torque            | 3 N.m holding brake                                       |
| Mounting support          | International standard flange                             |
| Motor flange size         | 70 mm                                                     |
| Torque constant           | 0.76 N.m/A at 120 °C                                      |
| Back emf constant         | 48 V/krpm at 20 °C                                        |
| Number of motor poles     | 6                                                         |
| Rotor inertia             | 0.51 kg.cm²                                               |
| Stator resistance         | 4.2 Ohm at 20 °C for Ph/Ph<br>2.92 Ohm at 120 °C for Ph/N |

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

|                                       |                                                                                                                            |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Stator inductance                     | 19 mH at 20 °C for Ph/Ph<br>9.5 mH at 120 °C for Ph/N                                                                      |
| Maximum radial force Fr               | 710 N at 1000 rpm<br>560 N at 2000 rpm<br>490 N at 3000 rpm<br>450 N at 4000 rpm<br>410 N at 5000 rpm<br>390 N at 6000 rpm |
| Maximum axial force Fa                | 0.2 x Fr                                                                                                                   |
| type of cooling                       | Natural convection                                                                                                         |
| Length                                | 252 mm                                                                                                                     |
| Number of motor stacks                | 2                                                                                                                          |
| Centring collar diameter              | 60 mm                                                                                                                      |
| centring collar depth                 | 2.5 mm                                                                                                                     |
| Number of mounting holes              | 4                                                                                                                          |
| Mounting holes diameter               | 5.5 mm                                                                                                                     |
| Circle diameter of the mounting holes | 82 mm                                                                                                                      |
| Net weight                            | 3.7 kg                                                                                                                     |

## Environment

|                         |      |
|-------------------------|------|
| IP degree of protection | IP54 |
|-------------------------|------|

## Packing Units

|                              |         |
|------------------------------|---------|
| Unit Type of Package 1       | PCE     |
| Number of Units in Package 1 | 1       |
| Package 1 Height             | 21.0 cm |
| Package 1 Width              | 18.0 cm |
| Package 1 Length             | 35.6 cm |
| Package 1 Weight             | 4.28 kg |

## Logistical informations

|                   |    |
|-------------------|----|
| Country of origin | DE |
|-------------------|----|

## Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

| Environmental footprint                               |                                               |
|-------------------------------------------------------|-----------------------------------------------|
| Carbon footprint (kg.eq.CO2 per CR, Total Life cycle) | 1                                             |
| Environmental Disclosure                              | <a href="#">Product Environmental Profile</a> |

Use Better

| Materials and Substances               |                                                            |
|----------------------------------------|------------------------------------------------------------|
| Packaging made with recycled cardboard | Yes                                                        |
| Packaging without single use plastic   | No                                                         |
| <a href="#">EU RoHS Directive</a>      | Pro-active compliance (Product out of EU RoHS legal scope) |
| REACH Regulation                       | <a href="#">REACH Declaration</a>                          |
| PVC free                               | Yes                                                        |

Use Again

| Repack and remanufacture |                                         |
|--------------------------|-----------------------------------------|
| Circularity Profile      | <a href="#">End of Life Information</a> |
| Take-back                | No                                      |