

# Product data sheet

Specifications



integrated servo motor- 5.8 Nm -  
3000 rpm- keyed shaft- multiturn-  
without brake

ILM1003P12A0000

Product availability: Non-Stock - Not normally stocked in  
distribution facility

## 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  | 3.6 A                                                        |
| Continuous stall torque   | 51.3 lbf.in (5.8 N.m)                                        |
| Peak stall torque         | 250.5 lbf.in (28.3 N.m)                                      |
| Nominal Output Power      | 1100 W                                                       |
| nominal torque            | 31.0 lbf.in (3.5 N.m)                                        |
| Nominal speed             | 3000 rpm                                                     |
| Maximum current Irms      | 21.2 A                                                       |
| Line Rated Current        | 2.4 A                                                        |
| Shaft end                 | Keyed                                                        |
| Second shaft              | Without second shaft end                                     |
| Shaft diameter            | 0.7 in (19 mm)                                               |
| Shaft length              | 1.6 in (40 mm)                                               |
| Key width                 | 1.2 in (30 mm)                                               |
| Feedback type             | Absolute multiturn SinCos Hiperface                          |
| Speed feedback resolution | 128 periods                                                  |
| Holding brake             | Without                                                      |
| Mounting Support          | International standard flange                                |
| Motor flange size         | 3.9 in (100 mm)                                              |
| Torque constant           | 1.61 N.m/A 248 °F (120 °C)                                   |
| Back emf constant         | 103 V/krpm 68 °F (20 °C)                                     |
| Number of motor poles     | 8                                                            |
| Rotor inertia             | 3.22 kg.cm²                                                  |
| Stator resistance         | 2.6 Ohm 68 °F (20 °C) Ph/Ph<br>1.81 Ohm 248 °F (120 °C) Ph/N |
| Stator inductance         | 15.6 mH 68 °F (20 °C) Ph/Ph<br>7.8 mH 248 °F (120 °C) Ph/N   |

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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

|                                       |                                                     |
|---------------------------------------|-----------------------------------------------------|
| Maximum radial force Fr               | 1050 N 1000 rpm<br>830 N 2000 rpm<br>730 N 3000 rpm |
| Maximum axial force Fa                | 0.2 x Fr                                            |
| Type of cooling                       | Natural convection                                  |
| Length                                | 11.2 in (285 mm)                                    |
| Number of motor stacks                | 3                                                   |
| Centring collar diameter              | 3.7 in (95 mm)                                      |
| Centring collar depth                 | 0.1 in (3.5 mm)                                     |
| Number of mounting holes              | 4                                                   |
| Mounting holes diameter               | 0.4 in (9 mm)                                       |
| Circle diameter of the mounting holes | 4.5 in (115 mm)                                     |
| Net Weight                            | 17.9 lb(US) (8.1 kg)                                |

## Environment

|                         |      |
|-------------------------|------|
| IP Degree of Protection | IP54 |
|-------------------------|------|

## Ordering and shipping details

|                   |               |
|-------------------|---------------|
| Category          | US1PC5218351  |
| Discount Schedule | PC52          |
| GTIN              | 3606485294452 |
| Returnability     | Yes           |
| Country of origin | DE            |

## Packing Units

|                        |                        |
|------------------------|------------------------|
| Unit Type of Package 1 | PCE                    |
| Nbr. of units in pkg.  | 1                      |
| Package 1 Height       | 10.2 in (26.0 cm)      |
| Package 1 Width        | 7.9 in (20.0 cm)       |
| Package 1 Length       | 23.2 in (59.0 cm)      |
| Package weight(Lbs)    | 19.38 lb(US) (8.79 kg) |

## 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 CO2 eq, 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>                                                                                                                                                                                                                                                           |
| California proposition 65              | WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |
| PVC free                               | Yes                                                                                                                                                                                                                                                                                         |

Use Again

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