

# Product data sheet

Specifications



## integrated servo motor - 8.5 Nm - 1500 rpm - multiturn - without brake

ILM1401M02A0000

⚠ Discontinued on: Sep 30, 2023

⚠ End-of-service on: Mar 31, 2025

⚠ Discontinued - Service only

**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 | 24 V  |
| Continuous stall current  | 3.2 A   |
| Continuous stall torque   | 75.2 lbf.in (8.5 N.m)   |
| Peak stall torque         | 239.0 lbf.in (27 N.m)   |
| Nominal Output Power      | 1300 W  |
| Nominal torque            | 73.5 lbf.in (8.3 N.m)   |
| Nominal speed             | 1500 rpm  |
| Maximum current Irms      | 14.6 A  |
| Line Rated Current        | 3.15 A  |
| Shaft end                 | Untapped  |
| Second shaft              | Without second shaft end                                      |
| Shaft diameter            | 0.9 in (24 mm)  |
| Shaft length              | 2.0 in (50 mm)  |
| Key width                 | 1.6 in (40 mm)  |
| Feedback type             | Absolute multiturn SinCos Hiperface                           |
| Speed feedback resolution | 128 periods   |
| Holding brake             | Without   |
| Mounting Support          | International standard flange                                 |
| Motor flange size         | 5.5 in (140 mm)   |
| Torque constant           | 2.65 N.m/A 248 °F (120 °C)                                    |
| Back emf constant         | 175 V/krpm 68 °F (20 °C)                                      |
| Number of motor poles     | 10  |
| Rotor inertia             | 7.41 kg.cm <sup>2</sup>                                       |
| Stator resistance         | 4.58 Ohm 68 °F (20 °C) Ph/Ph<br>3.18 Ohm 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.

|  |   |
|--|---|
| <b>Stator inductance</b>                     | 50 mH 68 °F (20 °C) Ph/Ph<br>25 mH 248 °F (120 °C) Ph/N |
| <b>Maximum radial force Fr</b>               | 2210 N 1000 rpm<br>1760 N 2000 rpm                      |
| <b>Maximum axial force Fa</b>                | 0.2 x Fr  |
| <b>Type of cooling</b>                       | Natural convection                                      |
| <b>Length</b>                                | 10 in (254 mm)  |
| <b>Number of motor stacks</b>                | 1   |
| <b>Centring collar diameter</b>              | 5.1 in (130 mm)   |
| <b>Centring collar depth</b>                 | 0.1 in (3.5 mm)   |
| <b>Number of mounting holes</b>              | 4   |
| <b>Mounting holes diameter</b>               | 0.4 in (11 mm)  |
| <b>Circle diameter of the mounting holes</b> | 6.5 in (165 mm)   |
| <b>Product Weight</b>                        | 27.6 lb(US) (12.5 kg)                                   |

## Environment

|                                |      |
|--------------------------------|------|
| <b>IP Degree of Protection</b> | IP54 |
|--------------------------------|------|

## Ordering and shipping details

|                          |               |
|--------------------------|---------------|
| <b>Category</b>          | US1PC5218351  |
| <b>Discount Schedule</b> | PC52          |
| <b>GTIN</b>              | 3606485294575 |
| <b>Returnability</b>     | Yes           |
| <b>Country of origin</b> | DE            |

## Packing Units

|                               |                         |
|-------------------------------|-------------------------|
| <b>Unit Type of Package 1</b> | PCE                     |
| <b>Nbr. of units in pkg.</b>  | 1                       |
| <b>Package 1 Height</b>       | 10.2 in (26.0 cm)       |
| <b>Package 1 Width</b>        | 7.9 in (20.0 cm)        |
| <b>Package 1 Length</b>       | 23.2 in (59.0 cm)       |
| <b>Package weight(Lbs)</b>    | 39.53 lb(US) (17.93 kg) |

## Contractual warranty

|                             |    |
|-----------------------------|----|
| <b>Warranty (in months)</b> | 18 |
|-----------------------------|----|



## 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

|  |   |
|--|---|
| Total lifecycle Carbon footprint                       | 0.1 kg CO2 eq.                                |
| Carbon footprint of the manufacturing phase [A1 to A3] | 0.1 kg CO2 eq.                                |
| Carbon footprint of the distribution phase [A4]        | 0 kg CO2 eq.                                  |
| Carbon footprint of the installation phase [A5]        | 0 kg CO2 eq.                                  |
| Carbon footprint of the use phase [B2, B3, B4, B6]     | 0 kg CO2 eq.                                  |
| Carbon footprint of the end-of-life phase [C1 to C4]   | 0 kg CO2 eq.                                  |
| Environmental Disclosure                               | <a href="#">Product Environmental Profile</a> |

## Use Better



### Materials and Substances

|  |  |
|--|--|
| Packaging made with recycled cardboard | No   |
| Packaging without single use plastic   | No   |
| EU RoHS Directive                      | <a href="#">Compliant By Exemption</a>   |
| REACH Regulation                       | <a href="#">Reference contains Substances of Very High Concern above the threshold</a>   |
| California proposition 65              | <b>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></b> |
| PVC free                               | Yes  |

## Use Longer



### Lifetime extension

|        |    |
|--------|----|
| Repair | No |
|--------|----|

## Use Again



### Repack and remanufacture

|                               |   |
|-------------------------------|---|
| Recyclability potential, in % | 1                                       |
| Circularity Profile           | <a href="#">End of Life Information</a> |
| Take-back                     | No                                      |