

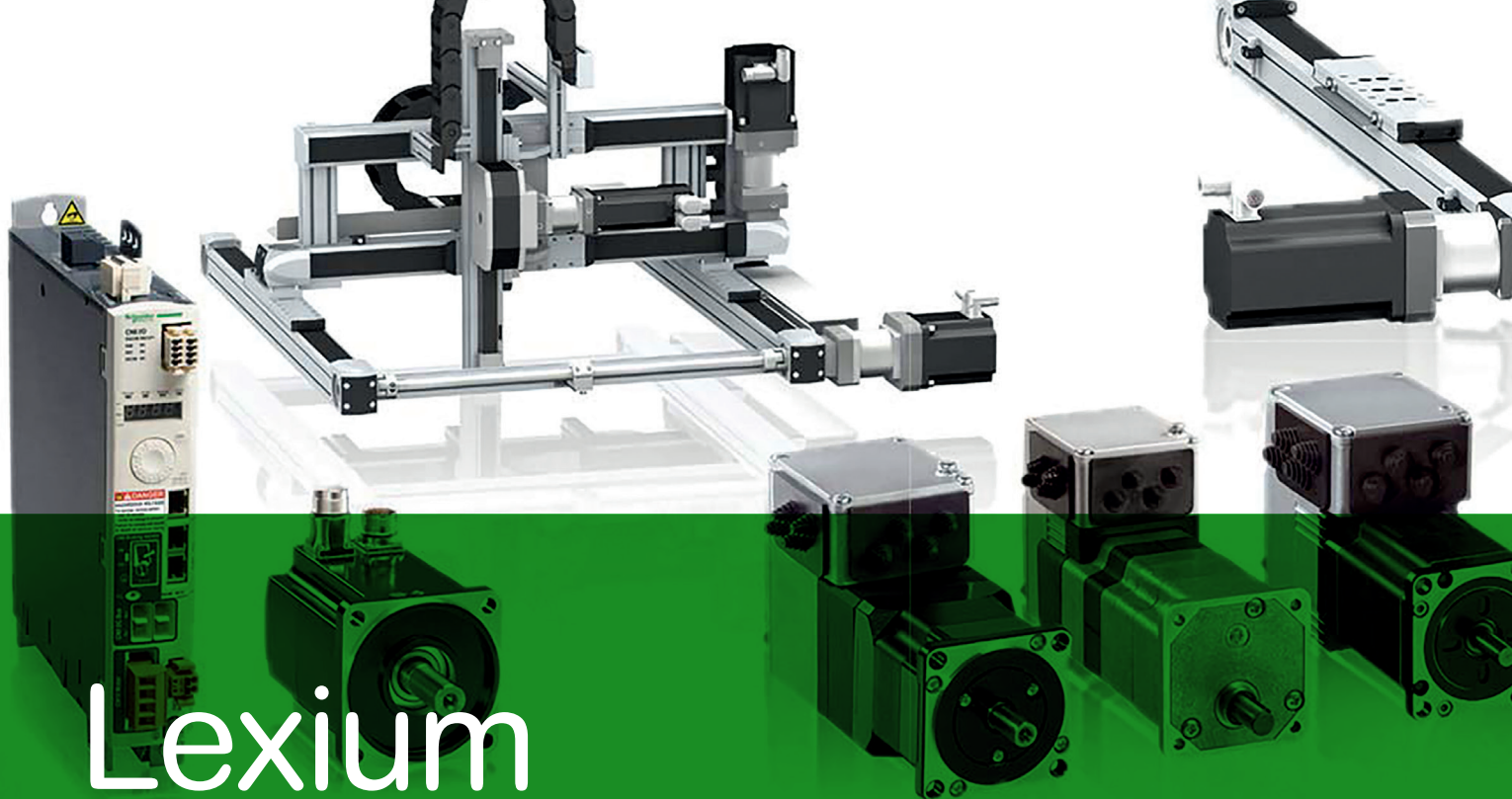
# PacDrive 3 automation solution

Lexium 62 ILD detached servo drives

Catalog

February 2017





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Lexium servo drives, motors, and robotics series are designed for a broad range of motion-centric machines. From single-axis to high-performance multi-axis machines, the **Lexium** range enables high-speed movements and precise positioning in packaging, material handling, material working, electronics, and food and beverage applications.

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**References**

**Modicon TM3**  
I/O expansion modules for Modicon controllers  
Analog I/O modules

| Number and type of channels             | Input range                         | Output range            | Resolution              | Aperture time (typical) | Reference | Weight (kg) |
|-----------------------------------------|-------------------------------------|-------------------------|-------------------------|-------------------------|-----------|-------------|
| 2 voltage/current inputs                | -15...+15 VDC<br>0...25 mA A, 25 mA | 15 000 of 15 000 + sign | 15 000 of 15 000 + sign | 100 ns                  | TM3AI2H   | 0.110       |
| 4 voltage/current inputs                | -15...+15 VDC<br>0...25 mA A, 25 mA | 15 000 of 15 000 + sign | 15 000 of 15 000 + sign | 100 ns                  | TM3AI2H   | 0.110       |
| 4 voltage/current or temperature inputs | -15...+15 VDC<br>0...25 mA A, 25 mA | 15 000 of 15 000 + sign | 15 000 of 15 000 + sign | 100 ns                  | TM3AI2H   | 0.110       |
| 4 differential temperature inputs       | -15...+15 VDC<br>0...25 mA A, 25 mA | 15 000 of 15 000 + sign | 15 000 of 15 000 + sign | 100 ns                  | TM3AI2H   | 0.110       |

Each commercial reference presented in a catalog contains a hyperlink. Click on it to obtain the technical information of the product:

- Characteristics, Dimensions and drawings, Mounting and clearance, Connections and schemas, Performance curves
- Product image, Instruction sheet, User guide, Product certifications, End of life manual

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All products Industrial Automation and Control PLC, PAC and Dedicated Controllers Distributed Input/Output (I/O) Modules Modicon TM3

View at Modicon TM3

TM3AI2H

Module TM3 - 2 analog inputs high resolution

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Related Software >

Product Datasheet User guide Catalogue CAD Document

Characteristics Documents and Downloads Technical FAQs Additional Information Dimensions Drawings >

Main

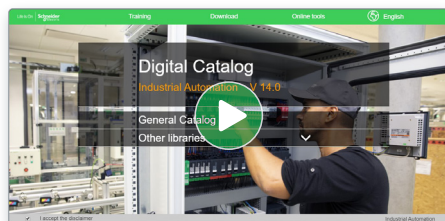
range of product Modicon TM3

product or component type Analog input module

range compatibility Modicon M251

M-Modicon A8554

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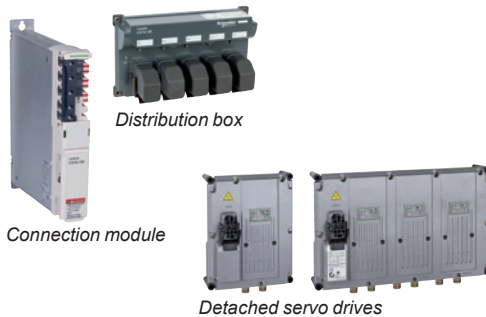
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## **PacDrive 3 automation solution Lexium 62 ILD detached servo drives**

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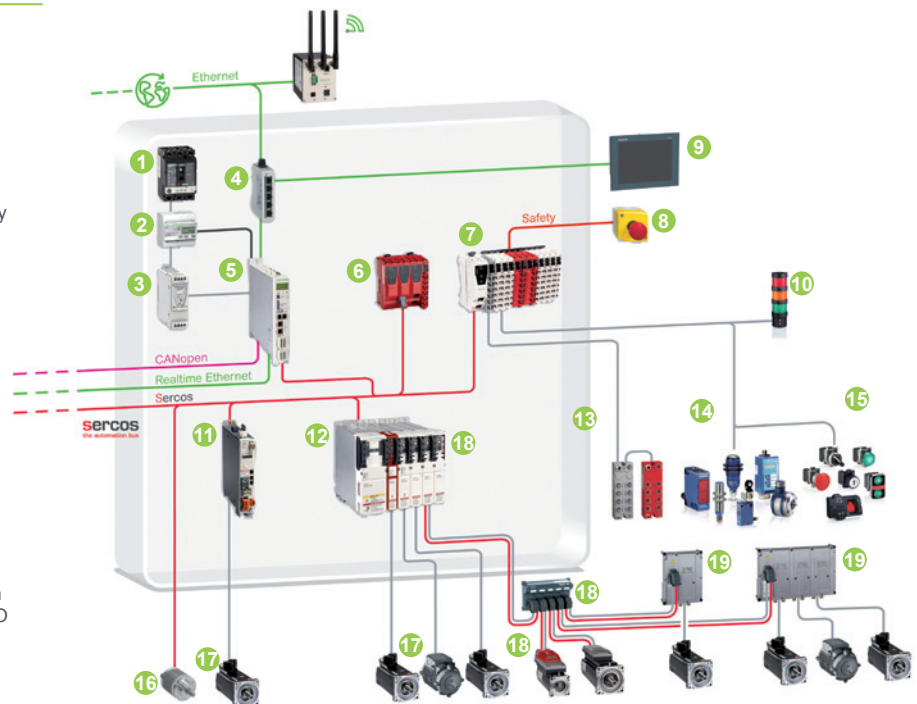
### Presentation

The Lexium 62 ILD detached servo drives are part of the Lexium 62 Multi-axis servo solution.

- They are supplementing the Lexium 62 cabinet based drives and the Lexium 62 ILM integrated drives.
- They are fully integrated in the Lexium 62 ILM network infrastructure, support as well the strategy of cabinetless automation.
- They give an IP65 degree of protection.
- The Lexium 62 ILD detached servo drives can be combined like Lexium 62 cabinet drives with Lexium SH3 and MH3 motors (up to a rated current of 6 A) and they can operate as well with other AC motors, even with the smallest one with 40 mm flange size.
- Compared with 62 ILM integrated drives this opens up additional degrees of freedom for flexible creation of servo solutions.
- Two types of Lexium 62 ILD detached servo drives are available:
  - Lexium 62 ILD single servo drive, for the control of one axis
  - Lexium 62 ILD triple servo drive, for the control of three axis
- The only components that remain in the control cabinet are:
  - The PacDrive LMC Motion controller,
  - The shared power supply,
  - The connection module with the possibility of connecting up to 45 servo modules. The connection module feeds 24 V power for controls and brakes, Inverter Enable and Sercos to the Lexium 62 ILD detached servo drive from the same DC bus power supplies as the Lexium 62 Multi-axis servo drives.

### Solution breakdown

- 1 Compact NSX Circuit breaker
- 2 IEM32 Energy meter
- 3 Phaseo Switch mode power supply
- 4 ConneXium Switch Ethernet
- 5 PacDrive LMC216 Motion controller
- 6 Modicon TM5CSLC Safety logic controller
- 7 Modicon TM5 (IP 20): Sercos interface module, Safety expansion module, Expansion module
- 8 Harmony XALK Emergency stop
- 9 Magelis HMI Small Panels
- 10 Harmony XV Signaling units
- 11 Lexium 52 single axis servo drive
- 12 Lexium 62 Multi-axis servo solution cabinet based: Power supply, Servo drives, Servo drives with embedded safety
- 13 Modicon TM7: IP 67 Expansion module, IP 67 Safety expansion module
- 14 Sensors: Proximity and Photoelectric sensors, Limit and Pressure switches, Encoder
- 15 Harmony XB4/XB5 Control units, Harmony XB5S Biometric switches
- 16 3rd party product: encoder
- 17 Lexium SH/MH Servo motors series
- 18 Lexium 62 ILM Integrated servo modules: Connection module, Distribution boxes, Integrated servo drives, I/O and Safety optional modules
- 19 Lexium 62 ILD detached servo drives: single drive, triple drive

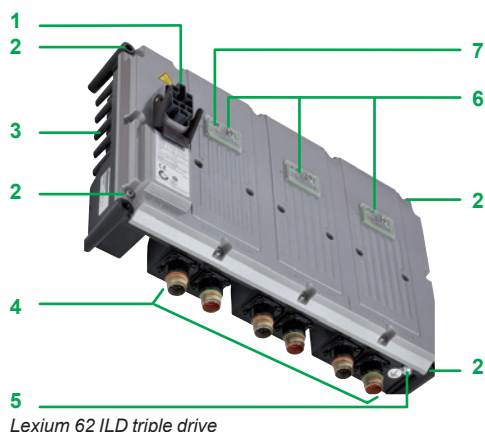
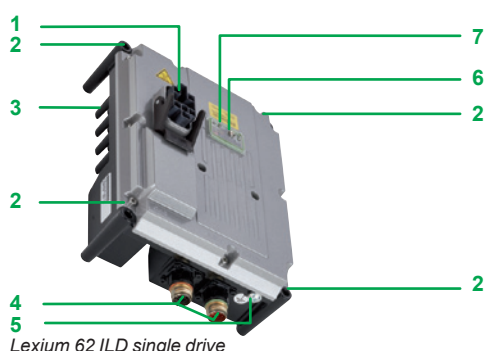


### > Lexium 62 ILD detached servo drive benefits

By moving the servo drives out of the control cabinet and into the field, Lexium 62 ILD detached servo drives offer is reducing significant the efforts for the servo solution:

- Plug & Play technology with pre-assembled hybrid cables
- Up to 90% less wiring time
- Up to 70% less cabling
- No cabinets necessary for Lexium 62 ILD detached servo drives
- More flexibility in the selection of motors
- Less wiring and cabling requirements in the control cabinet by up to 90%
- Detached IP65 servo drive electronics unit, in comparison to Lexium 62 ILM more flexibility in the selection of motors
- Quick interconnects and hybrid cables for signal and power level
- Automatic network configuration
- Diagnostic functions

| Lexium 62 ILD detached servo drives – Range presentation |                                                                     |                                                                                                                                                               |                                                                                                                                 |                                                |                                                                                                                                 |
|----------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Type                                                     |                                                                     | Lexium 62 ILD detached single servo drive                                                                                                                     |                                                                                                                                 | Lexium 62 ILD detached triple servo drive      |                                                                                                                                 |
| Reference                                                |                                                                     | ILM62DDD24A1000                                                                                                                                               | ILM62DDD24C1000                                                                                                                 | ILM62DDD24B1000                                | ILM62DDD24D1000                                                                                                                 |
| Number of controlled axis                                |                                                                     | 1                                                                                                                                                             |                                                                                                                                 | 3                                              |                                                                                                                                 |
| Power Supply                                             | Supply voltage                                                      | 250...700 Vdc                                                                                                                                                 |                                                                                                                                 |                                                |                                                                                                                                 |
|                                                          | Control voltage (without holding brake)                             | 24 Vdc (-20%... +25%)                                                                                                                                         |                                                                                                                                 |                                                |                                                                                                                                 |
|                                                          | Max. current consumption (without holding brake)                    | 0.7 A                                                                                                                                                         |                                                                                                                                 |                                                |                                                                                                                                 |
|                                                          | Control voltage (with holding brake)                                | 24 Vdc (-10 % ... +6 %)                                                                                                                                       |                                                                                                                                 |                                                |                                                                                                                                 |
|                                                          | Max. current consumption (with holding brake)                       | 4.9 A                                                                                                                                                         |                                                                                                                                 |                                                |                                                                                                                                 |
| Motor connection                                         | Switching frequency                                                 | 8 kHz                                                                                                                                                         |                                                                                                                                 |                                                |                                                                                                                                 |
|                                                          | Rated current at 40 °C (104 °F) (vertical)                          | Mounted on backplate: 5 Aeff (at 400 Vac)                                                                                                                     | For cold plate, passive cooling: 6.0 Aeff (at 400 Vac)<br>For cold plate, active cooling (water cooling): 6.0 Aeff (at 400 Vac) | Mounted on backplate: 2.7 Aeff (at 400 Vac)    | For cold plate, passive cooling: 4.4 Aeff (at 400 Vac)<br>For cold plate, active cooling (water cooling): 6.0 Aeff (at 400 Vac) |
|                                                          | Peak current (acceleration) at 40 °C (104 °F)                       | 24.0 Aeff (RMS)                                                                                                                                               |                                                                                                                                 |                                                |                                                                                                                                 |
|                                                          | Peak current for 100 ms (signal frequency = 0 Hz) at 40 °C (104 °F) | 34.0 A                                                                                                                                                        |                                                                                                                                 |                                                |                                                                                                                                 |
|                                                          |                                                                     |                                                                                                                                                               |                                                                                                                                 |                                                |                                                                                                                                 |
| Housing dimensions (D x W x H)                           |                                                                     | 86 x 169 x 237 mm (3.39 x 6.65 x 9.33 in.)                                                                                                                    |                                                                                                                                 | 86 x 348 x 237 mm (3.39 x 13.7 x 9.33 in.)     |                                                                                                                                 |
| Interfaces                                               | Sercos                                                              | Integrated                                                                                                                                                    |                                                                                                                                 |                                                |                                                                                                                                 |
| Encoder interface                                        | Analog encoder                                                      | SICK Hiperface                                                                                                                                                |                                                                                                                                 |                                                |                                                                                                                                 |
| Cooling                                                  |                                                                     | Backplate, natural convection (only heat sink)                                                                                                                | Cold plate, passive cooling<br>Cold plate, active cooling (water cooling)                                                       | Backplate, natural convection (only heat sink) | Cold plate, passive cooling<br>Cold plate, active cooling (water cooling)                                                       |
| Certifications                                           |                                                                     | cULus / C€                                                                                                                                                    | cURus / C€                                                                                                                      | cULus / C€                                     | cURus / C€                                                                                                                      |
| Protection rating                                        |                                                                     | IP 65                                                                                                                                                         |                                                                                                                                 |                                                |                                                                                                                                 |
| Safe Motion function management, via Sercos bus          |                                                                     | Safe Torque Off (STO) without optional module DIS1 (1)                                                                                                        |                                                                                                                                 |                                                |                                                                                                                                 |
| Associated Motor                                         | Type                                                                | Asynchronous motors: only voltage - frequenz controll U/f                                                                                                     |                                                                                                                                 |                                                |                                                                                                                                 |
|                                                          | Range                                                               | Lexium SH3 and Lexium MH3 servo motors up to 6A rated current<br>Please consult our catalog "PacDrive 3 automation solution, Lexium SH3/MH3/SHS servo motors" |                                                                                                                                 |                                                |                                                                                                                                 |



### Lexium 62 ILD detached servo drives – description

| item | Function                                                                      |
|------|-------------------------------------------------------------------------------|
| 1    | Hybrid socket connector and locking latch for hybrid cable (Sercos and power) |
| 2    | 4 x M6 Mounting holes                                                         |
| 3    | Passive cooling system / Active cooling system for cold plate                 |
| 4    | M17 motor cable Connector / M17 encoder cable Connector                       |
| 5    | Protective ground (earth)                                                     |
| 6    | LED display (function status, Port 1 and 2, Sercos III)                       |
| 7    | Connector for optional module DIS1 (1)                                        |

(1) More technical information on optional module DIS1 in the User manual, and on our website [www.schneider-electric.com](http://www.schneider-electric.com)

### Lexium 62 ILD detached servo drive – Type code

| ILM | 62 | DD | D24 | • | 1 | 0 | 00 |                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----|----|----|-----|---|---|---|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |    |    |     |   |   |   |    | <b>Customer</b><br>00 = Standard                                                                                                                                                                                                                                                                                                                                                                                              |
|     |    |    |     |   |   |   |    | <b>Internal</b><br>0 = Serial production                                                                                                                                                                                                                                                                                                                                                                                      |
|     |    |    |     |   |   |   |    | <b>Hardware - Release</b><br>1                                                                                                                                                                                                                                                                                                                                                                                                |
|     |    |    |     |   |   |   |    | <b>Variants</b><br>A = Lexium 62 ILD detached single servo drive, 5 A continuous current per axis<br>C = Lexium 62 ILD detached single servo drive, 6 A continuous current per axis for cold plate (passive / active)<br>B = Lexium 62 ILD detached triple servo drive, 2.7 A continuous current per axis<br>D = Lexium 62 ILD detached triple servo drive, 6 A continuous current per axis for cold plate (passive / active) |
|     |    |    |     |   |   |   |    | <b>Current Output (Peak rms)</b><br>D24 = 24 A                                                                                                                                                                                                                                                                                                                                                                                |
|     |    |    |     |   |   |   |    | <b>Type</b><br>DD = Detached Drive (ILD)                                                                                                                                                                                                                                                                                                                                                                                      |
|     |    |    |     |   |   |   |    | <b>Size</b><br>62 = Lexium 62                                                                                                                                                                                                                                                                                                                                                                                                 |
|     |    |    |     |   |   |   |    | <b>Family</b><br>ILM = Integrated Lexium drive                                                                                                                                                                                                                                                                                                                                                                                |



Lexium 62 ILD single drive



Lexium 62 ILD triple drive



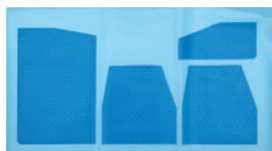
VW3E6056



VW3E6057



VW3E6058



VW3E6059

### Lexium 62 ILD detached servo drives – References

| Designation                                | Description                                                                                                                                      | Reference       | Weight<br>kg / lb |
|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------------|
| Lexium 62 ILD detached single servo drives | <input type="checkbox"/> For one axis<br><input type="checkbox"/> 5 A continuous current per axis                                                | ILM62DDD24A1000 | 2.500/<br>5.511   |
|                                            | <input type="checkbox"/> For one axis<br><input type="checkbox"/> 6 A continuous current for cold plate with passive / active cooling            | ILM62DDD24C1000 | 2.500/<br>5.511   |
| Lexium 62 ILD detached triple servo drives | <input type="checkbox"/> For three axes<br><input type="checkbox"/> 2.7 A continuous current per axes                                            | ILM62DDD24B1000 | 7.000/<br>15.432  |
|                                            | <input type="checkbox"/> For three axes<br><input type="checkbox"/> 6 A continuous current per axes for cold plate with passive / active cooling | ILM62DDD24D1000 | 7.000/<br>15.432  |

### Accessories – References

|                                                            |                                                |          |                 |
|------------------------------------------------------------|------------------------------------------------|----------|-----------------|
| <b>Protection caps</b><br>Necessary for unused connectors  | Kit blind cover for motor/encoder connectors   | VW3E6056 | 0.130/<br>0.286 |
|                                                            | Kit blind cover for encoder connectors         | VW3E6057 | 0.650/<br>1.433 |
| <b>Thermal-conduction Kits</b><br>Necessary for cold plate | For Lexium 62 ILD detached single servo drives | VW3E6058 | 0.150/<br>0.330 |
|                                                            | For Lexium 62 ILD detached triple servo drives | VW3E6059 | 0.200/<br>0.440 |



FCE310●●●A200



FCE322●●●A200



FCE312●●●A200



FCE311●●●A200



FCE313●●●A200

## Lexium 62 ILD cable – References

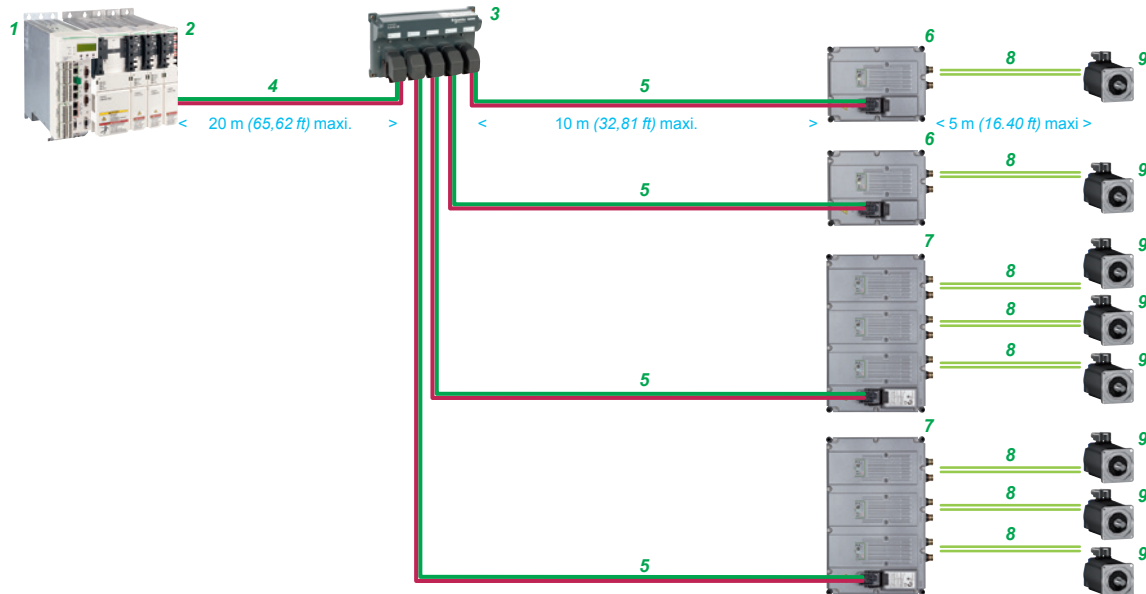
| Cables                                                                              |                                                                      | Length |               | Reference     | Weight       |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------|--------|---------------|---------------|--------------|
| between                                                                             | and                                                                  | m      | ft.           |               | kg / lb      |
| Motor cables                                                                        |                                                                      |        |               |               |              |
| Lexium 62 ILD detached servo drives (M17 connector)<br><i>item no 8, see page 5</i> | Lexium SH3 and Lexium MH3 motors (M23 connector)                     | 1.0    | 3.28          | FCE310010A200 | 0.370/ 0.815 |
|                                                                                     |                                                                      | 1.5    | 4.92          | FCE310015A200 | 0.460/ 1.014 |
|                                                                                     |                                                                      | 2.0    | 6.56          | FCE310020A200 | 0.560/ 1.234 |
|                                                                                     |                                                                      | 2.5    | 8.20          | FCE310025A200 | 0.660/ 1.455 |
|                                                                                     |                                                                      | 3.0    | 9.84          | FCE310030A200 | 0.750/ 1.653 |
|                                                                                     |                                                                      | 3.5    | 11.48         | FCE310035A200 | 0.850/ 1.873 |
|                                                                                     |                                                                      | 4.0    | 13.12         | FCE310040A200 | 0.950/ 2.094 |
|                                                                                     |                                                                      | 4.5    | 14.76         | FCE310045A200 | 1.050/ 2.314 |
|                                                                                     |                                                                      | 5.0    | 16.40         | FCE310050A200 | 1.150/ 2.535 |
|                                                                                     | Asynchronous motors (open end)                                       | 1.0    | 3.28          | FCE322010A200 | 0.260/ 0.573 |
|                                                                                     |                                                                      | 1.5    | 4.92          | FCE322015A200 | 0.350/ 0.771 |
|                                                                                     |                                                                      | 2.0    | 6.56          | FCE322020A200 | 0.450/ 0.992 |
|                                                                                     |                                                                      | 2.5    | 8.20          | FCE322025A200 | 0.550/ 1.212 |
|                                                                                     |                                                                      | 3.0    | 9.84          | FCE322030A200 | 0.650/ 1.433 |
|                                                                                     |                                                                      | 3.5    | 11.48         | FCE322035A200 | 0.740/ 1.631 |
|                                                                                     |                                                                      | 4.0    | 13.12         | FCE322040A200 | 0.840/ 1.851 |
|                                                                                     |                                                                      | 4.5    | 14.76         | FCE322045A200 | 0.940/ 2.072 |
|                                                                                     |                                                                      | 5.0    | 16.40         | FCE322050A200 | 1.040/ 2.292 |
|                                                                                     | Lexium SH304 motors, HMP04 (40 mm flange) motors with S915 connector | 1.0    | 3.28          | FCE312010A200 | 0.370/ 0.815 |
|                                                                                     |                                                                      | 1.2    | 3.93          | FCE312012A200 | 0.400/ 0.881 |
|                                                                                     |                                                                      | 1.5    | 4.92          | FCE312015A200 | 0.460/ 1.014 |
|                                                                                     |                                                                      | 2.0    | 6.56          | FCE312020A200 | 0.560/ 1.234 |
|                                                                                     |                                                                      | 2.5    | 8.20          | FCE312025A200 | 0.660/ 1.455 |
|                                                                                     |                                                                      | 3.0    | 9.84          | FCE312030A200 | 0.750/ 1.653 |
|                                                                                     |                                                                      | 3.5    | 11.48         | FCE312035A200 | 0.850/ 1.873 |
|                                                                                     |                                                                      | 4.0    | 13.12         | FCE312040A200 | 0.950/ 2.094 |
|                                                                                     |                                                                      | 4.5    | 14.76         | FCE312045A200 | 1.050/ 2.314 |
|                                                                                     | 5.0                                                                  | 16.40  | FCE312050A200 | 1.150/ 2.535  |              |

## Encoder cables

|                                                                                     |                                                  |     |                                                                      |               |              |
|-------------------------------------------------------------------------------------|--------------------------------------------------|-----|----------------------------------------------------------------------|---------------|--------------|
| Lexium 62 ILD detached servo drives (M17 connector)<br><i>item no 8, see page 5</i> | Lexium SH3 and Lexium MH3 motors (M23 connector) | 1.0 | 3.28                                                                 | FCE311010A200 | 0.190/ 0.418 |
|                                                                                     |                                                  | 1.5 | 4.92                                                                 | FCE311015A200 | 0.230/ 0.507 |
|                                                                                     |                                                  | 2.0 | 6.56                                                                 | FCE311020A200 | 0.250/ 0.551 |
|                                                                                     |                                                  | 2.5 | 8.20                                                                 | FCE311025A200 | 0.290/ 0.639 |
|                                                                                     |                                                  | 3.0 | 9.84                                                                 | FCE311030A200 | 0.330/ 0.727 |
|                                                                                     |                                                  | 3.5 | 11.48                                                                | FCE311035A200 | 0.350/ 0.771 |
|                                                                                     |                                                  | 4.0 | 13.12                                                                | FCE311040A200 | 0.390/ 0.859 |
|                                                                                     |                                                  | 4.5 | 14.76                                                                | FCE311045A200 | 0.430/ 0.947 |
|                                                                                     |                                                  | 5.0 | 16.40                                                                | FCE311050A200 | 0.450/ 0.992 |
|                                                                                     |                                                  |     | Lexium SH304 motors, HMP04 (40 mm flange) motors with S915 connector | 1.0           | 3.28         |
| 1.2                                                                                 | 3.93                                             |     |                                                                      | FCE313012A200 | 1.200/ 2.645 |
| 1.5                                                                                 | 4.92                                             |     |                                                                      | FCE313015A200 | 0.230/ 0.507 |
| 2.0                                                                                 | 6.56                                             |     |                                                                      | FCE313020A200 | 0.250/ 0.551 |
| 2.5                                                                                 | 8.20                                             |     |                                                                      | FCE313025A200 | 0.290/ 0.639 |
| 3.0                                                                                 | 9.84                                             |     |                                                                      | FCE313030A200 | 0.330/ 0.727 |
| 3.5                                                                                 | 11.48                                            |     |                                                                      | FCE313035A200 | 0.350/ 0.771 |
| 4.0                                                                                 | 13.12                                            |     |                                                                      | FCE313040A200 | 0.390/ 0.859 |
| 4.5                                                                                 | 14.76                                            |     |                                                                      | FCE313045A200 | 0.430/ 0.947 |
| 5.0                                                                                 | 16.40                                            |     |                                                                      | FCE313050A200 | 0.450/ 0.992 |

#### Hybrid cabling examples

##### Example



1 PacDrive 3 Logic Motion Controller

2 Connection module ILM62CM, see page 6

3 Distribution box ILM62DB, see page 7

4 Hybrid cable between Connection module ILM62CM and Distribution box ILM62DB, see below

5 Hybrid cable between Distribution box ILM62DB and Lexium 62 ILD detached servo drives or between two Distribution boxes ILM62DB (1), see below

6 Lexium 62 ILD single drive, see page 3

7 Lexium 62 ILD triple drive, see page 3

8 Motor cable, encoder cable, see page 5

9 Motors, please consult on our web site [www.schneider-electric.com](http://www.schneider-electric.com)

| Cable length                                                      | Max. (m / ft) |
|-------------------------------------------------------------------|---------------|
| Between Connection module and Distribution box ILM62DB            | 20 / 65.62    |
| Between Distribution box, and Lexium 62 ILD detached servo drives | 10 / 32.81    |
| Between Lexium 62 ILD detached servo drives and Motors            | 5 / 16.40     |
| Total of cable lengths                                            | 35 / 114.82   |

(1) Any unused Distribution box connections must be terminated with a Sercos bridge.

#### Hybrid cables – References

Hybrid cables includes cables for: DC bus, Sercos, 24 V, Inverter Enable signal.

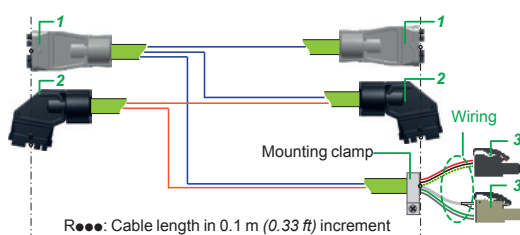
| Hybrid cables             | item n° | Connector (1) | Connector (2) | Standard length m / ft | Reference (●●● x 0.1 m / 0.33 ft) |
|---------------------------|---------|---------------|---------------|------------------------|-----------------------------------|
| between (1) and (2)       |         |               |               |                        |                                   |
| Connection module ILM62CM | 4       | –             | D0 (straight) | 5 / 16.40              | VW3E1147R●●●                      |
|                           |         | –             | D1 (left)     | 5 / 16.40              | VW3E1141R●●●                      |
|                           |         | –             | D2 (right)    | 5 / 16.40              | VW3E1146R●●●                      |
| Distribution box ILM62DB  | 5       | D1 (left)     | D0 (straight) | 2 / 32.81              | VW3E1149R●●●                      |
|                           |         | D1 (left)     | D1 (left)     | 2 / 32.81              | VW3E1142R●●●                      |
|                           |         | D1 (left)     | D2 (right)    | 2 / 32.81              | VW3E1148R●●●                      |
|                           |         | D0 (straight) | D2 (right)    | 2 / 32.81              | VW3E1150R●●●                      |
|                           |         | D0 (straight) | D0 (straight) | 2 / 32.81              | VW3E1151R●●●                      |
|                           |         | D2 (right)    | D2 (right)    | 2 / 32.81              | VW3E1152R●●●                      |

##### Note

Item n° 4: available in the following lengths: 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, and 20 m (16.40, 19.69, 22.97, 26.25, 29.53, 32.81, 36.09, 39.37, 42.65, 45.93, 49.21, 52.49, 55.77, 59.06, 62.34, and 65.62 ft).

Item n° 5: available in the following lengths: 1, 2, 3, 4, 5, 6, 7, 8, 9, and 10 m (3.28, 6.56, 9.84, 13.12, 16.40, 19.69, 22.97, 26.25, 29.53, and 32.81 ft).

#### Connectors – description

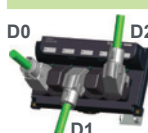


- 1 HyCon3 D0 connector
- 2 HyCon3 D1/D2 connector
- 3 RJ45 connector

##### Cable outlet

On ILM62DB Distribution box

On Lexium 62 ILD detached servo drive

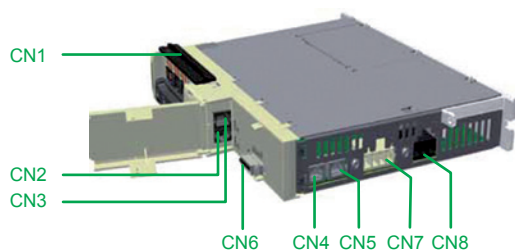


# PacDrive 3 automation solution

Lexium 62 ILD detached servo drives

Lexium 62 ILM Connection module

Lexium 62 ILM Distribution box



## Lexium 62 ILM Connection module – presentation

| type                           | ILM62CMD20A000                                    |
|--------------------------------|---------------------------------------------------|
| Input current                  | 20 A                                              |
| Output current                 | 20 A                                              |
| Continuous output              | 0.95 kW / 1.273 hp                                |
| DC bus input voltage           | 250...700 Vdc                                     |
| DC bus output voltage          | 250...700 Vdc                                     |
| Control voltage                | 24 Vdc (-20%... +25%)                             |
| Inverter Enable input voltage  | 24 Vdc (-20%... +25%)                             |
| Inverter Enable output voltage | 40 Vac                                            |
| Inverter Enable output current | 2 A                                               |
| Cooling                        | Passive                                           |
| Housing dimensions (D x W x H) | 270 x 44.5 x 310 mm (10.630 x 1.752 x 12.205 in.) |
| Protection rating              | IP 20                                             |

## Lexium 62 ILM Connection module – description

| Connector | Function                                                                    |
|-----------|-----------------------------------------------------------------------------|
| CN1       | Busbar module                                                               |
| CN2/CN3   | Sercos communication to power supply and additional Connection modules      |
| CN4       | Inverter Enable 24 Vdc                                                      |
| CN5, CN6  | Sercos communication to Lexium 62 ILD detached drive and Distribution boxes |
| CN7       | Inverter Enable signal output / 24 Vdc output                               |
| CN8       | DC bus output                                                               |

## Lexium 62 ILM Connection module – Reference

| Designation                                                     | Use                                                 | Reference      | Weight kg/lb   |
|-----------------------------------------------------------------|-----------------------------------------------------|----------------|----------------|
| Lexium 62 ILM Connection module<br><i>item no 2, see page 5</i> | To connect the Lexium 62 ILD with Sercos and DC bus | ILM62CMD20A000 | 3.000/<br>6.61 |

## Lexium 62 ILM Distribution box – Presentation

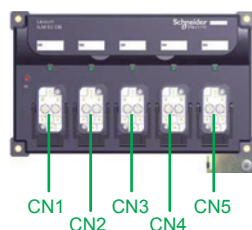
| type                           | ILM62DB4A000                                    |
|--------------------------------|-------------------------------------------------|
| Input current                  | 20 A                                            |
| Output current                 | 20 A                                            |
| DC bus input voltage           | 250...700 Vdc                                   |
| DC bus output voltage          | 250...700 Vdc                                   |
| Control voltage                | 24 Vdc (-20%... +25%) / Max. 20 A               |
| Inverter Enable input voltage  | 24 Vdc (-20%... +25%)                           |
| Inverter Enable output voltage | 40 Vac                                          |
| Inverter Enable output current | 2 A                                             |
| Housing dimensions (D x W x H) | 151.4 x 230 x 94 mm (5.961 x 9.055 x 3.701 in.) |
| Protection rating              | IP 65                                           |
| Sercos speed rate              | 100 Mbps                                        |

## Lexium 62 ILM Distribution box – description

| Connector          | Function                                                        |
|--------------------|-----------------------------------------------------------------|
| CN1                | Input (Connection module or Distribution box)                   |
| CN2, CN3, CN4, CN5 | Output (Distribution box or Lexium 62 ILD detached servo drive) |

## Lexium 62 ILM Distribution box – References

| Designation                                                    | Use                                                                           | Reference    | Weight kg/lb   |
|----------------------------------------------------------------|-------------------------------------------------------------------------------|--------------|----------------|
| Lexium 62 ILM Distribution box<br><i>item no 3, see page 5</i> | To connect several Lexium 62 ILD with Sercos and DC bus                       | ILM62DB4A000 | 0.850/<br>1.88 |
| Sercos bridge plug<br><i>item no 7, see page 5</i>             | For Distribution box (to be ordered separately: not included in ILM62DB4A000) | VW3E6023     | 0.784/<br>1.73 |



ILM62DB4A000 with 5 x VW3E6023

| F             |   |
|---------------|---|
| FCE310010A200 | 5 |
| FCE310015A200 | 5 |
| FCE310020A200 | 5 |
| FCE310025A200 | 5 |
| FCE310030A200 | 5 |
| FCE310035A200 | 5 |
| FCE310040A200 | 5 |
| FCE310045A200 | 5 |
| FCE310050A200 | 5 |
| FCE311010A200 | 5 |
| FCE311015A200 | 5 |
| FCE311020A200 | 5 |
| FCE311025A200 | 5 |
| FCE311030A200 | 5 |
| FCE311035A200 | 5 |
| FCE311040A200 | 5 |
| FCE311045A200 | 5 |
| FCE311050A200 | 5 |
| FCE312010A200 | 5 |
| FCE312012A200 | 5 |
| FCE312015A200 | 5 |
| FCE312020A200 | 5 |
| FCE312025A200 | 5 |
| FCE312030A200 | 5 |
| FCE312035A200 | 5 |
| FCE312040A200 | 5 |
| FCE312045A200 | 5 |
| FCE312050A200 | 5 |
| FCE313010A200 | 5 |
| FCE313012A200 | 5 |
| FCE313015A200 | 5 |
| FCE313020A200 | 5 |
| FCE313025A200 | 5 |
| FCE313030A200 | 5 |
| FCE313035A200 | 5 |
| FCE313040A200 | 5 |
| FCE313045A200 | 5 |
| FCE313050A200 | 5 |
| FCE322010A200 | 5 |
| FCE322015A200 | 5 |
| FCE322020A200 | 5 |
| FCE322025A200 | 5 |
| FCE322030A200 | 5 |
| FCE322035A200 | 5 |
| FCE322040A200 | 5 |
| FCE322045A200 | 5 |
| FCE322050A200 | 5 |

| I               |   |
|-----------------|---|
| ILM62CMD20A000  | 7 |
| ILM62DB4A000    | 7 |
| ILM62DDD24A1000 | 4 |
| ILM62DDD24B1000 | 4 |
| ILM62DDD24C1000 | 4 |
| ILM62DDD24D1000 | 4 |

| V        |   |
|----------|---|
| VW3E6023 | 7 |
| VW3E6056 | 4 |
| VW3E6057 | 4 |
| VW3E6058 | 4 |
| VW3E6059 | 4 |

The Next Generation



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