



**131N9839**

**FC-302P18KT5E20H1XXXXXXXXXXALBXCXXXXX**

FC-302P18KT5E20H1XXXXXXXXXXALBXCXXXXX

VLT® AutomationDrive FC 300  
 (FC-) VLT® AutomationDrive FC- 302  
 (P18K) 18.5 KW / 25 HP, (5) 380 - 500 VAC,  
 (E20) IP20 / Chassis,  
 (H1) RFI Class A1/B (C1), (X) No brake chopper  
 (X) No Loc. Cont. Panel,  
 B4

**Model code:** FC-302P18KT5E20H1XXXXXXXXXXALBXCXXXXX

The VLT® AutomationDrive represents a single drive concept that controls the entire range of operations from ordinary to servo like applications on any machine or production line.

[View Efficiency Data](#)

**PRODUCT DETAILS**

|   |                      |                                |
|---|----------------------|--------------------------------|
| <b>Gross weight</b>                       | 20 kg                |                                |
| <b>Net weight</b>                         | 18.93 kg             |                                |
| <b>Volume</b>                             | 144.67 l             |                                |
| <b>EAN</b>                                | 5702427908628        |                                |
| <b>VLT® AUTOMATIONDRIVE FC 300 SERIES</b> |                      |                                |
| <b>Product Group</b>                      | FC-                  | (FC-) VLT® AutomationDrive FC- |
| <b>Series</b>                             | 302                  | 302                            |
| <b>Power Rating</b>                       | P18K                 | (P18K) 18.5 KW / 25 HP         |
| <b>Phase</b>                              | T                    | (T) Three phase                |
| <b>Mains Voltage</b>                      | 5                    | (5) 380 - 500 VAC              |
| <b>Enclosure</b>                          | E20                  | (E20) IP20 / Chassis           |
| <b>RFI Filter</b>                         | H1                   | (H1) RFI Class A1/B (C1)       |
| <b>Brake - Safe Stop</b>                  | X                    | (X) No brake chopper           |
| <b>LCP</b>                                | X                    | (X) No Loc. Cont. Panel        |
| <b>Coating PCB</b>                        | X                    | (X) Not coated PCB             |
| <b>Mains Option</b>                       | X                    | (X) No Mains Option            |
| <b>Adaptation A</b>                       | X                    | (X) Standard Cable Entries     |
| <b>Adaptation B</b>                       | X                    | (X) No adaptation              |
| <b>A Option</b>                           | AL                   | (AL) PROFINET MCA 120          |
| <b>B Option</b>                           | BX                   | (BX) No B Option               |
| <b>C0 Option MCO</b>                      | CX                   | (CX) No C0 option              |
| <b>C1 Option</b>                          | X                    | (X) No C1 option               |
| <b>C Option Software</b>                  | XX                   | (XX) No software option        |
| <b>D Option</b>                           | DX                   | (DX) No D option               |
| <b>Frame Size</b>                         | B4                   | B4                             |
| <b>Typecode Part 1</b>                    | FC-302P18KT5E20H1XXX |                                |
| <b>Typecode Part 2</b>                    | XXXXXXXXALBXCXXXXX   |                                |
| <b>Calculated Gross Weight</b>            | 19.8                 |                                |
| <b>Calculated Net Weight [kg]</b>         | 19.5                 |                                |
| <b>Continuous Current (HO) [A]</b>        | 37.5                 |                                |

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## PRODUCT DETAILS

|                                |                      |                                |
|--------------------------------|----------------------|--------------------------------|
| Continuous Current (HO) [A]    | 34                   |                                |
| Continuous Current (NO) [A]    | 44                   |                                |
| Continuous Current (NO) [A]    | 40                   |                                |
| Depth [mm]                     | 242,0                |                                |
| Depth with Option A/B [mm]     | 242,0                |                                |
| Height [mm]                    | 520,0                |                                |
| Height w/ Regen/Loadshare [mm] | NV                   |                                |
| Intermittent Current (HO) [A]  | 60                   |                                |
| Intermittent Current (HO) [A]  | 54.4                 |                                |
| Intermittent Current (NO) [A]  | 48.4                 |                                |
| Intermittent Current (NO) [A]  | 44                   |                                |
| kVA                            | 26                   |                                |
| Material Gross Weight          | 20.1                 |                                |
| Material Net Weight            | 19.8                 |                                |
| Modelcode01                    | FC-302P18KT5E20H1XXX |                                |
| Modelcode02                    | XXXXXXXXALBXCXXXXDX  |                                |
| Power 110% (NO) [KW]           | 22                   |                                |
| Power 150% (HO) [KW]           | NV                   |                                |
| Power 160% (HO) [KW]           | 18.5                 |                                |
| Power 180% (HO) [KW]           | NV                   |                                |
| Power Loss HO [W]              | 444                  |                                |
| Power Loss HO [W]              | 444                  |                                |
| Power Loss NO [W]              | 525                  |                                |
| Power Loss NO [W]              | 525                  |                                |
| Product Catalog                | NO_VIEW              | NO VIEW                        |
| Product View (Switch)          | GLBL                 | Global (Standard)              |
| Software Language Pack         | X                    | (X) Standard Language Pack     |
| Software Release               | SXXX                 | (SXXX) Latest release std. SW. |
| Vendor                         | ERR01                | Cannot Determine Vendor        |
| Width w/ no C options [mm]     | 230,0                |                                |

For Documents, Software, Visuals and more information, please use this link to visit the product page on Danfoss Product Store [↗](#)

## Accessories



**130B4172** [↗](#)

**Back plate IP20/Chassis, B4**

Back plate IP20/Type 1, enclosure size B4



**130B7533** [↗](#)

**Mounting Kit C Option, B/C/D/E/F(not B3)**

MCF105 C Option, Mounting Kit A2 and A3

For more information, please use this link to visit the product page on Danfoss Product Store [↗](#)

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**Accessories**

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**130B7635** [🔗](#)**VLT® Lift Controller MCO 361**

VLT® Motion Control MCO 305 with special software for lift application

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**130B7145** [🔗](#)**VLT® SALT Controller MCO 360****130B6443** [🔗](#)**VLT® Safety Option MCB 140**

VLT® MCB140 Safe Option extends the Safe Torque Off feature of VLT® frequency converters with additional safety functions. These are Safe Stop 1 (SS1), Safely Limited Speed (SLS), Safe Maximum Speed (SMS) and Safe Speed Monitor (SSM).

Extends the Safe Torque Off feature of VLT® drives with additional safety functions: Safe Stop 1 (SS1), Safely Limited Speed (SLS), Safe Maximum Speed (SMS) and Safe Speed Monitor (SSM).

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**130B5765** [🔗](#)**Leakage Current Monitor Kit, B4****130B5436** [🔗](#)**Side Fixture Mounting Kit**

Side Fixture Mounting Kit for enclosure size A5 / B1 / B2 / C1 / C2

To be used when retrofitting the following MCA options:

MCA 120 Profinet

MCA 121 EtherNet

MCA 122 Modbus TCP

MCA 123 POWERLINK

MCA 124 EtherCAT

Product group: R1

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**130B5435** [🔗](#)**DIN Rail Mounting Kit**

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Accessories



**130B1234**

**VLT® Motion Control MCO 305, coated**

Integrated and programmable motion controller for VLT® AutomationDrive FC 301 and FC 302

- Adds additional functionality and flexibility as it is a freely programmable module
- Optimized for all types of positioning and synchronization applications
- Make your own program specially adapted to your application

Contains:

- synchronization (electronic shaft), positioning and electronic cam control
- 2 inputs support both stepwise and absolute encoders
- 1 encoder output (virtual master function)
- 10 digital inputs
- 8 digital outputs
- Sends and receives data via fieldbus interface (requires fieldbus option)
- PC software for programming and commissioning

Remember to order the Mounting kit if the above MCO option is required retrofitted.

130B7530 - Mounting kit for enclosures A2 and A3

130B7531 - Mounting kit for MCO Option, together with MCB 113, in enclosures A2 and A3

130B1413 - Mounting kit for enclosure B3

130B1414 - Mounting kit for MCO Option, together with MCB 113, in enclosure B3

130B7532 - Mounting kit for enclosure A5

130B7533 - Mounting kit for all enclosures B, C, D, E and F (B3 excepted)

Danfoss MCO options are not sold without prior advice.

Danfoss can offer help with programming / setting up MCO options.

Contact Danfoss for advice and prices.

Product group: R



**130B1227**

**VLT® Resolver Input MCB 103, coated**

Resolver extension for FC 300. Enables the connection of the following

Resolver types:

Input voltage: 4..8 Vrms

Input frequency: 2.5..15 kHz

Number of resolver poles: 2 or 4

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Input frequency: 2.5..15 kHz

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Accessories



**130B1220** [🔗](#)

**VLT® Safe PLC I/O MCB 108, coated**

Increases security and helps you meet requirement security levels

- VLT® AutomationDrive FC 302 has a safety input based on a single pole 24 V DC input

- Security in a cost-effective way

Possibility of connection to two conductor safety system

Possibility to interrupt on the plus or minus side without disturbing the sensor signal

Increases security and helps you meet requirement security levels

- VLT® AutomationDrive FC 302 has a safety input based on a single pole 24 V DC input

- Security in a cost-effective way

Possibility of connection to two conductor safety system

Possibility to interrupt on the plus or minus side without disturbing the sensor signal



**130B1264** [🔗](#)

**VLT® Extended Relay Card MCB 113, ctd**

Adds 7 digital inputs and 2 analog outputs for increased flexibility. 4

SPDT relays. Meets NAMUR recommendations. Galvanic isolation capability.

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Accessories



**130B1253** [🔗](#)

**VLT® Position Controller MCO 351, ctd**

Extends the functional characteristics of the frequency converter in positioning applications

- Direct positioning via fieldbus, relative positioning, absolute positioning and touch probe positioning
- End stop handling (software and hardware)
- Mechanical brake handling (programmable hold delay)

Error handling

- Jog speed / manual operation
- None for programming, as it is pre-programmed

Remember to order the Mounting kit if the above MCO option is required retrofitted.

130B7530 - Mounting kit for enclosures A2 and A3

130B7531 - Mounting kit for MCO Option, together with MCB 113, in enclosures A2 and A3

130B1413 - Mounting kit for enclosure B3

130B1414 - Mounting kit for MCO Option, together with MCB 113, in enclosure B3

130B7532 - Mounting kit for enclosure A5

130B7533 - Mounting kit for all enclosures B, C, D, E and F (B3 excepted)

Danfoss MCO options are not sold without prior advice.

Danfoss can offer help with programming / setting up MCO options.

Contact Danfoss for advice and prices.

Product group: R

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- End stop handling (software and hardware)
- Mechanical brake handling (programmable hold delay)

Error handling

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130B1413 - Mounting kit for enclosure B3

130B1414 - Mounting kit for MCO Option, together with MCB 113, in enclosure B3

130B7532 - Mounting kit for enclosure A5

130B7533 - Mounting kit for all enclosures B, C, D, E and F (B3 excepted)

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Accessories



**130B1252** [🔗](#)

**VLT® Synchronizing Ctrl. MCO 350, ctd**

MCO 350 - synchronous controller

Based on the MCO 305 prefabricated controller for Synchronization tasks. The adjustment takes place through parameter settings. Specific Programming skills are not required.

- 2 encoder inputs, both for incremental as well as absolute encoder
- 1 encoder output (virtual master function)
- 10 additional digital inputs
- 8 additional digital outputs
- fieldbus Communication (requires fieldbus card) with reinforced coating

MCO 350 - synchronous controller

Based on the MCO 305 prefabricated controller for Synchronization tasks. The adjustment takes place through parameter settings. Specific Programming skills are not required.

- 2 encoder inputs, both for incremental as well as absolute encoder
- 1 encoder output (virtual master function)
- 10 additional digital inputs
- 8 additional digital outputs
- fieldbus Communication (requires fieldbus card) with reinforced coating

MCO 350 - synchronous controller

Based on the MCO 305 prefabricated controller for Synchronization tasks. The adjustment takes place through parameter settings. Specific Programming skills are not required.

- 2 encoder inputs, both for incremental as well as absolute encoder
- 1 encoder output (virtual master function)
- 10 additional digital inputs
- 8 additional digital outputs
- fieldbus Communication (requires fieldbus card) with reinforced coating



**130B1190** [🔗](#)

**IP21 conversion kit, top, B4**

IP21 top cover for enclosure B4

Product group: R1



**130B1189** [🔗](#)

**IP21 conversion kit for B4 frame.**

IP21 cover for enclosure B4

Product group: R1

IP21 cover for enclosure B4



**130B1172** [🔗](#)

**VLT® Sensor Input Card MCB 114, unctd**

Protects the motor from being overheated by monitoring the temperature of bearings and windings in the motor. Three self-detecting sensor inputs for 2 or 3 wire PT100/PT1000 sensors. One additional analog input 4–20 mA.



**130B1170** [🔗](#)

**LCP Panel Mounting Kit**

The kit includes fasteners and gasket. No LCP and no cable included.

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Accessories



**130B1212** [🔗](#)

**VLT® General Purpose I/O MCB 101, ctd**

MCB 101 - Advanced I / O option

Expands the number of freely programmable

Control inputs and outputs around the following I / Os:

- 3 digital inputs opto-decoupled 0 - 24 V.
  - 2 analog inputs 0 - 10 V.
  - 2 digital outputs NPN / PNP switchable 24 V
  - 1 analog output 0/4 - 20 mA
- with reinforced coating



**130B1210** [🔗](#)

**VLT® Relay Option MCB 105, coated**

Relay extension for FC 100 and FC 300.

Extension with 3 additional load relays (changeover contacts), easy to retrofit thanks to modular technology.

Painted version for harsh environments, easy to retrofit thanks to modular technology.

Max. Load 240V AC (resistive): 2 A

Max. Load 240V AC (Cos Phi 0.4): 0.2 A

Max. Load 24V DC (ohmic): 1 A

Max. Load 24V DC (inductive): 0.1 A

Relay extension for FC 100 and FC 300.

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Max. Load 240V AC (resistive): 2 A

Max. Load 240V AC (Cos Phi 0.4): 0.2 A

Max. Load 24V DC (ohmic): 1 A

Max. Load 24V DC (inductive): 0.1 A



**130B1208** [🔗](#)

**VLT® 24V DC Supply MCB 107, coated**

Connect an external DC supply to keep the control section and any installed option alive during power failure. Enables full operation of the LCP (including the parameter setting) and all installed options without connection to mains.



**130B1203** [🔗](#)

**VLT® Encoder Input MCB 102, coated**

Offers the possibility to connect various types of incremental and absolute encoders. The connected encoder can be used for closed-loop speed control as well as closed-loop flux motor control.



**130B1387** [🔗](#)

**opt.control,24v, multipack 5 pcs.**

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Accessories



**130B1272** [🔗](#)

**VLT® Sensor Input Card MCB 114, coated**

MCB 114 - PT100 / PT1000 option  
 For FC100-FC200 and FC302 (painted version)  
 Enables the evaluation of up to 3 PT 100 or 3 PT 1000 sensors

- Connection of 2 and 3 wire sensors
- Automatic detection of the sensor type
- Additional 4-20mA input



**130B1164** [🔗](#)

**VLT® Extended Relay Card MCB 113**

Adds 7 digital inputs and 2 analog outputs for increased flexibility. 4 SPDT relays. Meets NAMUR recommendations. Galvanic isolation capability.



**130B1006** [🔗](#)

**VLT® Motion Ctrl Tool MCT 10>100 lic.**

VLT® drive or soft starter using a PC. Configure communication networks and back up relevant parameter settings. Control and configure systems simultaneously and monitor entire system more effectively for faster monitoring, diagnosis, troubleshooting (alarms/warnings) and better preventive maintenance.

An interactive tool for quick and easy online/offline configuration of a



**130B1005** [🔗](#)

**VLT® Motion Ctrl Tool MCT 10,100 lic.**

An interactive tool for quick and easy online/offline configuration of a VLT® drive or soft starter using a PC. Configure communication networks and back up relevant parameter settings. Control and configure systems simultaneously and monitor entire system more effectively for faster monitoring, diagnosis, troubleshooting (alarms/warnings) and better preventive maintenance.



**130B1004** [🔗](#)

**VLT® Motion Ctrl Tool MCT 10,50 lic.**

An interactive tool for quick and easy online/offline configuration of a VLT® drive or soft starter using a PC. Configure communication networks and back up relevant parameter settings. Control and configure systems simultaneously and monitor entire system more effectively for faster monitoring, diagnosis, troubleshooting (alarms/warnings) and better preventive maintenance.

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**Accessories**


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**130B1003** [🔗](#)**VLT® Motion Ctrl Tool MCT 10,25 lic.**

An interactive tool for quick and easy online/offline configuration of a VLT® drive or soft starter using a PC. Configure communication networks and back up relevant parameter settings. Control and configure systems simultaneously and monitor entire system more effectively for faster monitoring, diagnosis, troubleshooting (alarms/warnings) and better preventive maintenance.

**130B1002** [🔗](#)**VLT® Motion Ctrl Tool MCT 10,10 lic.**

With the MCT 10 PC software tool you can control and configure your system simultaneously, and monitor the entire system more effectively for faster diagnosis, and better preventive maintenance. Simplify commissioning, maintenance and documentation using MCT 10 Set-up Software.

- Supports Siemens CP PCMCIA- and PCI cards, for Profibus DP-V1 Master Class 2 connection
- Support of standard interfaces: COMx, USB, RS 232 (Flux)
- Siemens PG / Field PGs already have the necessary hardware
- For commissioning frequency converters online.
- If a frequency converter requires replacement.
- If a communication network is to be expanded with more frequency converters.
- For back-up of all parameter settings of frequency converters in a communication network.
- One tool for all series

An interactive tool for quick and easy online/offline configuration of a VLT® drive or soft starter using a PC. Configure communication networks and back up relevant parameter settings. Control and configure systems simultaneously and monitor entire system more effectively for faster monitoring, diagnosis, troubleshooting (alarms/warnings) and better preventive maintenance.

With the MCT 10 PC software tool you can control and configure your system simultaneously, and monitor the entire system more effectively for faster diagnosis, and better preventive maintenance. Simplify commissioning, maintenance and documentation using MCT 10 Set-up Software.

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  - Support of standard interfaces: COMx, USB, RS 232 (Flux)
  - Siemens PG / Field PGs already have the necessary hardware
  - For commissioning frequency converters online.
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**Accessories**

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**130B1001** [🔗](#)**VLT® Motion Ctrl Tool MCT 10,5 lic.**

With the MCT 10 PC software tool you can control and configure your system simultaneously, and monitor the entire system more effectively for faster diagnosis, and better preventive maintenance.

Simplify commissioning, maintenance and documentation using MCT 10 Set-up Software.

- Supports Siemens CP PCMCIA- and PCI cards, for Profibus DP-V1 Master Class 2 connection
- Support of standard interfaces: COMx, USB, RS 232 (Flux)
- Siemens PG / Field PGs already have the necessary hardware
- For commissioning frequency converters online.
- If a frequency converter requires replacement.
- If a communication network is to be expanded with more frequency converters.
- For back-up of all parameter settings of frequency converters in a communication network.
- One tool for all series

An interactive tool for quick and easy online/offline configuration of a VLT® drive or soft starter using a PC. Configure communication networks and back up relevant parameter settings. Control and configure systems simultaneously and monitor entire system more effectively for faster monitoring, diagnosis, troubleshooting (alarms/warnings) and better preventive maintenance.

**130B1000** [🔗](#)**VLT® Motion Ctrl Tool MCT 10,1 lic.**

An interactive tool for quick and easy online/offline configuration of a VLT® drive or soft starter using a PC. Configure communication networks and back up relevant parameter settings. Control and configure systems simultaneously and monitor entire system more effectively for faster monitoring, diagnosis, troubleshooting (alarms/warnings) and better preventive maintenance.

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**Accessories**


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**130B1134** [🔗](#)**VLT® Motion Control MCO 305, uncoated**

Integrated and programmable motion controller for VLT® AutomationDrive FC 301 and FC 302

- Adds additional functionality and flexibility as it is a freely programmable module
- Optimized for all types of positioning and synchronization applications
- Make your own program specially adapted to your application

Contains:

- synchronization (electronic shaft), positioning and electronic cam control
- 2 inputs support both stepwise and absolute encoders
- 1 encoder output (virtual master function)

10 digital inputs

8 digital outputs

- Sends and receives data via fieldbus interface (requires fieldbus Option)
- PC software for programming and commissioning.

Remember to order the Mounting kit if the above MCO option is required retrofitted.

130B7530 - Mounting kit for enclosures A2 and A3

130B7531 - Mounting kit for MCO Option, together with MCB 113, in enclosures A2 and A3.

130B1413 - Mounting kit for enclosure B3

130B1414 - Mounting kit for MCO Option, together with MCB 113, in enclosure B3

130B7532 - Mounting kit for enclosure A5

130B7533 - Mounting kit for all enclosures B, C, D, E and F (B3 excepted)

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Product group: R

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**130B1127** [🔗](#)**VLT® Resolver Input MCB 103, uncoated**

Enables connection of a resolver to provide speed feedback from the motor. Spring loaded connection.

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**130B1125** [🔗](#)**VLT® General Purpose I/O MCB 101, uncoated**

MCB 101 - Advanced I / O option

Expands the number of freely programmable Control inputs and outputs around the following I / Os:

- 3 digital inputs opto-decoupled 0 - 24 V.
  - 2 analog inputs 0 - 10 V.
  - 2 digital outputs NPN / PNP switchable 24 V
  - 1 analog output 0/4 - 20 mA
- 

**130B1124** [🔗](#)**VLT® Control Panel LCP 101, numeric**

Numerical control unit for FC 100 and FC 300. Allows access to all device parameters.

Quick menu for brief commissioning. Manual / auto switchover and alarm acknowledgment.

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**Accessories**


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**130B1120** [🔗](#)**VLT® Safe PLC I/O MCB 108, uncoated**

Connection converter for FC 300 with control input for a safe stop. Allows secure connection. Output modules with diagnostic pulse (Cross-circuit monitoring).

Connection converter for FC 300 with control input for a safe stop. Allows secure connection. Output modules with diagnostic pulse (Cross-circuit monitoring).

Connection converter for FC 300 with control input for a safe stop. Allows secure connection. Output modules with diagnostic pulse (Cross-circuit monitoring).

**130B1117** [🔗](#)**LCP Mounting Kit, w/ no LCP**

The kit includes fasteners, 3m cable and gasket - There is no LCP included.

**130B1115** [🔗](#)**VLT® Encoder Input MCB 102, uncoated**

Offers the possibility to connect various types of incremental and absolute encoders. The connected encoder can be used for closed-loop speed control as well as closed-loop flux motor control.

**130B1114** [🔗](#)**LCP Mounting Kit w/ numerical LCP101, 3m**

The kit includes numerical LCP, fasteners, 3m cable and gasket.

**130B1113** [🔗](#)**Lcp panel kit/fc300 fg-lcp panel kit**

The kit includes graphical LCP, fasteners, 3m cable and gasket.

**130B1110** [🔗](#)**VLT® Relay Option MCB 105, uncoated**

Relay extension for FC 100 and FC 300. Extension with 3 additional load relays (changeover contacts), easy to retrofit thanks to modular technology.

Max. Load 240V AC (resistive): 2 A

Max. Load 240V AC (Cos Phi 0.4): 0.2 A

Max. Load 24V DC (ohmic): 1 A

Max. Load 24V DC (inductive): 0.1 A

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Accessories



**130B1153**

**VLT® Position Controller MCO351, unctd**

Extends the functional characteristics of the frequency converter in positioning applications

- Direct positioning via fieldbus, relative positioning, absolute positioning and touch probe positioning
- End stop handling (software and hardware)
- Mechanical brake handling (programmable hold delay)

Error handling

- Jog speed / manual operation
- None for programming, as it is pre-programmed

Remember to order the Mounting kit if the above MCO option is required retrofitted.

130B7530 - Mounting kit for enclosures A2 and A3

130B7531 - Mounting kit for MCO Option, together with MCB 113, in enclosures A2 and A3

130B1413 - Mounting kit for enclosure B3

130B1414 - Mounting kit for MCO Option, together with MCB 113, in enclosure B3

130B7532 - Mounting kit for enclosure A5

130B7533 - Mounting kit for all enclosures B, C, D, E and F (B3 excepted)

Danfoss MCO options are not sold without prior advice. Danfoss can offer help with programming / setting up MCO options. Contact Danfoss for advice and prices.

Product group: R

Extends the functional characteristics of the frequency converter in positioning applications

- Direct positioning via fieldbus, relative positioning, absolute positioning and touch probe positioning
- End stop handling (software and hardware)
- Mechanical brake handling (programmable hold delay)

Error handling

- Jog speed / manual operation
- None for programming, as it is pre-programmed

Remember to order the Mounting kit if the above MCO option is required retrofitted.

130B7530 - Mounting kit for enclosures A2 and A3

130B7531 - Mounting kit for MCO Option, together with MCB 113, in enclosures A2 and A3

130B1413 - Mounting kit for enclosure B3

130B1414 - Mounting kit for MCO Option, together with MCB 113, in enclosure B3

130B7532 - Mounting kit for enclosure A5

130B7533 - Mounting kit for all enclosures B, C, D, E and F (B3 excepted)

Danfoss MCO options are not sold without prior advice. Danfoss can offer help with programming / setting up MCO options. Contact Danfoss for advice and prices.

Product group: R

Product group: R

programming / setting up MCO options. Contact Danfoss for advice and prices.

Danfoss MCO options are not sold without prior advice. Danfoss can offer help with

130B7533 - Mounting kit for all enclosures B, C, D, E and F (B3 excepted)

130B7532 - Mounting kit for enclosure A5

130B1414 - Mounting kit for MCO Option, together with MCB 113, in enclosure B3

130B1413 - Mounting kit for enclosure B3

130B7531 - Mounting kit for MCO Option, together with MCB 113, in enclosures A2 and A3

130B7530 - Mounting kit for enclosures A2 and A3

Remember to order the Mounting kit if the above MCO option is required retrofitted.

- None for programming, as it is pre-programmed

- Jog speed / manual operation

Error handling

- Mechanical brake handling (programmable hold delay)
- End stop handling (software and hardware)

positioning and touch probe positioning

- Direct positioning via fieldbus, relative positioning, absolute positioning applications

Extends the functional characteristics of the frequency converter in

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Accessories



**130B1152** [🔗](#)

**VLT® Synchronizing Contr. MCO350,unctd**

Expands the functional properties of the VLT® AutomationDrive in synchronizing applications, and replaces traditional mechanical solutions. Speed synchronizing. Position (angle) synchronizing with or without marker correction. Online adjustable gear ratio. Online adjustable position (angle) offset. Encoder output with virtual master function for synchronization of multiple followers. Control via I/Os or fieldbus. Home function. Configuration as well as read-out of status and data via the Local Control Panel of the drive.  
MCO350 Synchronizing controller



**130B1137** [🔗](#)

**VLT® PTC Thermistor Card MCB 112, ctd**

MCB 112 PTC - thermistor relay MS220DA In connection with ATEX certified explosion-proof motors for full motor protection. Certified PTC sensors are the sole protection required. Integrable module with ATEX-compliant full thermal motor protection  
1 PTB-certified PTC thermistor input  
1 switch-off signal for using the Safe Stop function  
1 logic output for error identification  
MCB 112 PTC - thermistor relay MS220DA In connection with ATEX certified explosion-proof motors for full motor protection. Certified PTC sensors are the sole protection required. Integrable module with ATEX-compliant full thermal motor protection  
1 PTB-certified PTC thermistor input  
1 switch-off signal for using the Safe Stop function  
1 logic output for error identification  
MCB 112 PTC - thermistor relay MS220DA In connection with ATEX certified explosion-proof motors for full motor protection. Certified PTC sensors are the sole protection required. Integrable module with ATEX-compliant full thermal motor protection  
1 PTB-certified PTC thermistor input  
1 switch-off signal for using the Safe Stop function  
1 logic output for error identification



**130B1077** [🔗](#)

**Blindcover, w/ Danfoss logo, IP55/66**

LCP Blindcover IP66



**130B1071** [🔗](#)

**6 Pole Connector, FC series, 10 pcs**

6 Pole Connector, FC series, 10 pcs



**130B1070** [🔗](#)

**RS485 plug, FC series, 10 pcs**

10pcs RS485 connectors for FC-series.  
Product group: R  
10pcs RS485 connectors for FC-series.

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**Accessories**


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**130B1108** [🔗](#)**VLT® 24V DC Supply MCB 107, uncoated**

Connect an external DC supply to keep the control section and any installed option alive during power failure. Enables full operation of the LCP (including the parameter setting) and all installed options without connection to mains.

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**130B1107** [🔗](#)**VLT® Control Panel LCP 102**

Graphic operating unit LCP102 Illuminated graphic display with plain text. Supports all languages and characters. Quick menu for brief commissioning. Saving and copying parameter sets. Online help for each function

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**130B1088** [🔗](#)**LCP Blindcover, w/ Danfoss logo, IP20/21****175Z0929** [🔗](#)**LCP Cable, 3m**

Cable for control panel (LCP), 3 meters  
Works with the following LCP:  
Alphanumeric control panel LCP3 - 175N0131  
VLT® LCP 102 Graphic Display - 130B1107  
VLT® LCP 101 Numeric Display - 130B1124  
VLT® LCP 102 Graphic display IP66 - 130B1078  
Product group: F1

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Image coming soon

**175U0009** [🔗](#)**Mounting bracket Kit, 216 x 30 x 18mm**

Mounting angle for flatpack resistor 200W

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**175N2584** [🔗](#)**VLT® EtherNet/IP Modbus TCP gateway**

Image coming soon

**134B6302** [🔗](#)**VLT MCT 10 Software Customizer, 1 key**

the commissioning experience of the VLT® to best fit your needs. It is a strong tool that enables you to quickly create your setup and test it first to MCT 10 using the simulator before uploading it to a real drive. local Danfoss Drives representative to order the required license(s).

Customize your commissioning experience

As the name suggests, VLT® Software Customizer allows you to customize

Note that the Advanced MCT 10 license is needed, please contact the

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**Accessories**

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Image  
coming  
soon

**134B5225** [🔗](#)

**Remote LCP unit, 10m**

Remote LCP unit, 10m

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Image  
coming  
soon

**134B5224** [🔗](#)

**Remote LCP unit, 5m**



**134B5223** [🔗](#)

**Remote LCP unit, 3m**

Remote mounting kit for LCP with cover for outdoor mounting with 3 m (10 ft) cable

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Accessories



**134B0460**

**LCP 103 Wireless Communication Panel**

With VLT® Wireless Communication Panel LCP 103 you can communicate with MyDrive® Connect - an app that can be downloaded for iOS and Android based smartphones. MyDrive® Connect makes commissioning easy, monitor and maintain tasks on your frequency converter. VLT® Wireless Communication Panel LCP 103 shows the current status of the drive (On, Warning, Alarm, Wifi connection) via built-in LED. Detailed information is also available using MyDrive® Connect. Here do you have access to i.a. status, menu and alerts. You can also see graphs over the latest available data.

The new VLT® Wireless Communication Panel LCP 103 allows you to wireless communication to the following drives:

- VLT® HVAC Drive FC 102
- VLT® Refrigeration Drive FC 103
- VLT® AQUA Drive FC 202
- VLT® AutomationDrive FC 302

[!] Note!

LCP 103 only works on frequency converters produced in 2018 (White USB stik).

Product group: R1

With VLT® Wireless Communication Panel LCP 103 you can communicate with MyDrive® Connect - an app that can be downloaded for iOS and Android based smartphones. MyDrive® Connect makes commissioning easy, monitor and maintain tasks on your frequency converter. VLT® Wireless Communication Panel LCP 103 shows the current status of the drive (On, Warning, Alarm, Wifi connection) via built-in LED. Detailed information is also available using MyDrive® Connect. Here do you have access to i.a. status, menu and alerts. You can also see graphs over the latest available data.

The new VLT® Wireless Communication Panel LCP 103 allows you to wireless communication to the following drives:

- VLT® HVAC Drive FC 102
- VLT® Refrigeration Drive FC 103
- VLT® AQUA Drive FC 202
- VLT® AutomationDrive FC 302

[!] Note!

LCP 103 only works on frequency converters produced in 2018 (White USB stik).

Product group: R1

Product group: R1

stik).

LCP 103 only works on frequency converters produced in 2018 (White USB

[!] Note!

- VLT® AutomationDrive FC 302

- VLT® AQUA Drive FC 202

- VLT® Refrigeration Drive FC 103

- VLT® HVAC Drive FC 102

wireless communication to the following drives:

The new VLT® Wireless Communication Panel LCP 103 allows you to

over the latest available data.

do you have access to i.a. status, menu and alerts. You can also see graphs

information is also available using MyDrive® Connect. Here

Warning, Alarm, Wifi connection) via built-in LED. Detailed

Communication Panel LCP 103 shows the current status of the drive (On,

monitor and maintain tasks on your frequency converter. VLT® Wireless

based smartphones. MyDrive® Connect makes commissioning easy,

MyDrive® Connect - an app that can be downloaded for iOS and Android

With VLT® Wireless Communication Panel LCP 103 you can communicate with

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**Accessories**


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Image  
coming  
soon**134B1992** **Control Terminals w/ screw connections**Image  
coming  
soon**130B6447** **VLT® Safety Option MCB 141**

Extends the Safe Torque Off feature of VLT® drives with additional safety functions: Safe Stop 1 (SS1), Safely Limited Speed (SLS), Safe Maximum Speed (SMS) and Safe Speed Monitor (SSM).

Extends the Safe Torque Off feature of VLT® drives with additional safety functions: Safe Stop 1 (SS1), Safely Limited Speed (SLS), Safe Maximum Speed (SMS) and Safe Speed Monitor (SSM).

**130B1266** **VLT MCB 115 Programmable I/O, coated**

VLT® MCB 115 programmable I / O, coated

**134B6544** **Real Time Clock D slot option MCB117**

The VLT® Real-time clock option MCB 117 option provides advanced data-logging functionality to the following drives

VLT® HVAC Drive FC 102

VLT® Refrigeration Drive FC 103

VLT® Aqua Drive FC 202

VLT® Automation Drive FC 301/FC 302

Note: This option is compatible only with MK-II control cards & upto 90 KW supporting A,B & C Frames.

Image  
coming  
soon**134B7207** **cable clamp/d=44-48 k48b**Image  
coming  
soon**134B7209** **cable clamp/d=36-40 k40b****130B0295** **Accessory bag with control card plugs**Image  
coming  
soon**134B1983** **Accessory bag for framesize B4 small**

Accessory bag for framesize B4 small

**For more information, please use this link to visit the product page on Danfoss Product Store** 

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**Accessories**

Image coming soon

**134B1984** [🔗](#)  
**Accessory bag for framesize B4 big**  
 Accessory bag for framesize B4 big

**Spare Parts**

Image coming soon

**612Z1182** [🔗](#)  
**fuse,4a,3 x 32mm,super fast**



**130B9005** [🔗](#)  
**Plastic busbar for frame B4, H6**



x10

**130B9001** [🔗](#)  
**multiple 2 pole power combicon, 24V plug**



**130B5601** [🔗](#)  
**VLT® DeviceNet converter MCA194 coated**  
 VLT® DeviceNet converter MCA194 coated



**130B1235** [🔗](#)  
**VLT® PROFINET MCA 120, coated**  
 MCA 120 PROFINET interface  
 With reinforced coating (class 3C3 / IEC 60721-3-3)  
 -Supports operation on PROFINET network with extensive characteristics  
 -DCP support for easy setting u. Communication parameters via the PLC  
 -on Board web-Page with Drive Status  
 -parameterization with the MCT10 software  
 - 2-port version, reduced external hardware



**130B0295** [🔗](#)  
**Accessory bag with control card plugs**



**130B0284** [🔗](#)  
**Frame for Local Control Panel**

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Spare Parts



**130B1135** [🔗](#)  
**VLT® PROFINET MCA 120, uncoated**

MCA 120 PROFINET interface  
 -Supports operation on PROFINET network with extensive properties  
 -DCP support for easy setting u. Communication parameters via the PLC  
 - On Board web-Page with Drive Status  
 - Parameterization with the MCT10 software  
 - 2 port version, reduced external hardware



**130B1069** [🔗](#)  
**Multiple relay 1 plug**

spare, 3 pole connector, relay 1, fc300



**130B1068** [🔗](#)  
**Multiple relay 2 plug**

spare, 3 pole connector, relay 2, fc300



**130B1088** [🔗](#)  
**LCP Blindcover, w/ Danfoss logo, IP20/21**



**130B1954** [🔗](#)  
**DC Link Card 22kW 400/500V**



**130B1943** [🔗](#)  
**Power Card 22kW 500V**

If the drive is build before April 1th 2013 replacement of the power card is not possible and the whole drive will have to be replaced.



**130B1434** [🔗](#)  
**DC coil 22kW T4/6 for frame B4**



**130B1416** [🔗](#)  
**RFI unit 200/500V adv. A1/B frame B4**



**134B1726** [🔗](#)  
**Control Card with safe stop for FC-302**

NOTE:  
 The MKII control cards are backward compatible to the old cards but will only work with SW equal or higher than 8.12. If your drive has a customer specific software or a brand labeled software version please order the old control card MKI PN: 130B1109

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## Spare Parts

Image  
coming  
soon**134B1621** [🔗](#)**Assembled motor terminals for frame B4**Image  
coming  
soon**134B1620** [🔗](#)**b4 44 pole cable jumper**Image  
coming  
soon**134B1983** [🔗](#)**Accessory bag for framesize B4 small**

Accessory bag for framesize B4 small

Image  
coming  
soon**134B7138** [🔗](#)**Plastic busbar and power card fixture**

Plastic busbar and power card fixture

Image  
coming  
soon**134B7139** [🔗](#)**mylarfolie to dc-link card**

mylarfolie to dc-link card

**134B7140** [🔗](#)**Fan assembly 120x120x38 mm coated B4/H6**

Note: Old material number 130B3699

Image  
coming  
soon**134B7193** [🔗](#)**cable clamp**Image  
coming  
soon**134B7192** [🔗](#)**Mains terminals for units without RFI**Image  
coming  
soon**134B7178** [🔗](#)**24 pole 3 connector jumper for C option**

24 pole 3 connector jumper for C option

**134B0133** [🔗](#)**Terminal cover and LCP cradle for B4****For more information, please use this link to visit the product page on Danfoss Product Store** [🔗](#)

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**Services**


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**131H3620** [🔗](#)**FC-302P30KT5E20H1BGCDXXSXXXXAXBXCXXXXDX**

FC-302P30KT5E20H1BGCDXXSXXXXAXBXCXXXXDX

VLT® AutomationDrive FC 300

(FC-) VLT® AutomationDrive FC- 302

(P30K) 30 KW / 40 HP, (5) 380 - 500 VAC,

(E20) IP20 / Chassis,

(H1) RFI Class A1/B (C1), (B) Brake chopper

(G) Graphical Loc. Cont. Panel,

B4

**Model code:** FC-302P30KT5E20H1BGCDXXSXXXXAXBXCXXXXDX

The VLT® AutomationDrive represents a single drive concept that controls the entire range of operations from ordinary to servo like applications on any machine or production line.

**130R1131** [🔗](#)**DrivePro ExWarr Work Shop PG04 30 months**

DrivePro® Standard Extended Warranty provides repair at a Danfoss Drives workshop, or shipment of a replacement product to the site.

You can only order DrivePro® Extended Warranty when purchased with a new drive. For drives previously shipped or purchased; contact your local Danfoss Drives sales office for extended warranty contract options.

**130R1134** [🔗](#)**DrivePro ExWarr Work Shop PG04 48 months**

DrivePro® Standard Extended Warranty provides repair at a Danfoss Drives workshop, or shipment of a replacement product to the site.

You can only order DrivePro® Extended Warranty when purchased with a new drive. It is not available after the drive has been shipped. Contact Danfoss Drives sales office for post-shipment service contract options.

**130R1135** [🔗](#)**DrivePro ExWarr Work Shop PG04 54 months**

DrivePro® Standard Extended Warranty provides repair at a Danfoss Drives workshop, or shipment of a replacement product to the site.

You can only order DrivePro® Extended Warranty when purchased with a new drive. For drives previously shipped or purchased; contact your local Danfoss Drives sales office for extended warranty contract options.

**130R1137** [🔗](#)**DrivePro ExWarr Work Shop PG04 66 months**

DrivePro® Standard Extended Warranty provides repair at a Danfoss Drives workshop, or shipment of a replacement product to the site.

You can only order DrivePro® Extended Warranty when purchased with a new drive. For drives previously shipped or purchased; contact your local Danfoss Drives sales office for extended warranty contract options.

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**Services**

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**130R1138** [🔗](#)**DrivePro ExWarr Work Shop PG04 72 months**

DrivePro® Standard Extended Warranty provides repair at a Danfoss Drives workshop, or shipment of a replacement product to the site.

You can only order DrivePro® Extended Warranty when purchased with a new drive. For drives previously shipped or purchased; contact your local Danfoss Drives sales office for extended warranty contract options.

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**130R1136** [🔗](#)**DrivePro ExWarr Work Shop PG04 60 months**

DrivePro® Standard Extended Warranty provides repair at a Danfoss Drives workshop, or shipment of a replacement product to the site.

You can only order DrivePro® Extended Warranty when purchased with a new drive. For drives previously shipped or purchased; contact your local Danfoss Drives sales office for extended warranty contract options.

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**130R1130** [🔗](#)**DrivePro ExWarr Work Shop PG04 24 months**

DrivePro® Standard Extended Warranty provides repair at a Danfoss Drives workshop, or shipment of a replacement product to the site.

You can only order DrivePro® Extended Warranty when purchased with a new drive. For drives previously shipped or purchased; contact your local Danfoss Drives sales office for extended warranty contract options.

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**130R1132** [🔗](#)**DrivePro ExWarr Work Shop PG04 36 months**

DrivePro® Standard Extended Warranty provides repair at a Danfoss Drives workshop, or shipment of a replacement product to the site.

You can only order DrivePro® Extended Warranty when purchased with a new drive. For drives previously shipped or purchased; contact your local Danfoss Drives sales office for extended warranty contract options.

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**130R1133** [🔗](#)**DrivePro ExWarr Work Shop PG04 42 months**

DrivePro® Standard Extended Warranty provides repair at a Danfoss Drives workshop, or shipment of a replacement product to the site.

You can only order DrivePro® Extended Warranty when purchased with a new drive. For drives previously shipped or purchased; contact your local Danfoss Drives sales office for extended warranty contract options.

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**130R1034** [🔗](#)**DrivePro ExWarr Onsite PG04 48 months**

DrivePro® On-site Extended Warranty provides repair at the customer site, or replacement at the customer site.

You can only order DrivePro® Extended Warranty when purchased with a new drive. For drives previously shipped or purchased; contact your local Danfoss Drives sales office for extended warranty contract options.

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**Services**

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**130R1031** [🔗](#)**DrivePro ExWarr Onsite PG04 30 months**

DrivePro® On-site Extended Warranty provides repair at the customer site, or replacement at the customer site.

You can only order DrivePro® Extended Warranty when purchased with a new drive. For drives previously shipped or purchased; contact your local Danfoss Drives sales office for extended warranty contract options.

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**130R1032** [🔗](#)**DrivePro ExWarr Onsite PG04 36 months**

DrivePro® On-site Extended Warranty provides repair at the customer site, or replacement at the customer site.

You can only order DrivePro® Extended Warranty when purchased with a new drive. For drives previously shipped or purchased; contact your local Danfoss Drives sales office for extended warranty contract options.

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**130R1035** [🔗](#)**DrivePro ExWarr Onsite PG04 54 months**

DrivePro® On-site Extended Warranty provides repair at the customer site, or replacement at the customer site.

You can only order DrivePro® Extended Warranty when purchased with a new drive. For drives previously shipped or purchased; contact your local Danfoss Drives sales office for extended warranty contract options.

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**130R1033** [🔗](#)**DrivePro ExWarr Onsite PG04 42 months**

DrivePro® On-site Extended Warranty provides repair at the customer site, or replacement at the customer site.

You can only order DrivePro® Extended Warranty when purchased with a new drive. For drives previously shipped or purchased; contact your local Danfoss Drives sales office for extended warranty contract options.

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**130R1030** [🔗](#)**DrivePro ExWarr Onsite PG04 24 months**

DrivePro® On-site Extended Warranty provides repair at the customer site, or replacement at the customer site.

You can only order DrivePro® Extended Warranty when purchased with a new drive. For drives previously shipped or purchased; contact your local Danfoss Drives sales office for extended warranty contract options.

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**130R1038** [🔗](#)**DrivePro ExWarr Onsite PG04 72 months**

DrivePro® On-site Extended Warranty provides repair at the customer site, or replacement at the customer site.

You can only order DrivePro® Extended Warranty when purchased with a new drive. For drives previously shipped or purchased; contact your local Danfoss Drives sales office for extended warranty contract options.

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**Services**


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**130R1036** [🔗](#)**DrivePro ExWarr Onsite PG04 60 months**

DrivePro® On-site Extended Warranty provides repair at the customer site, or replacement at the customer site.

You can only order DrivePro® Extended Warranty when purchased with a new drive. For drives previously shipped or purchased; contact your local Danfoss Drives sales office for extended warranty contract options.

**130R1037** [🔗](#)**DrivePro ExWarr Onsite PG04 66 months**

DrivePro® On-site Extended Warranty provides repair at the customer site, or replacement at the customer site.

You can only order DrivePro® Extended Warranty when purchased with a new drive. For drives previously shipped or purchased; contact your local Danfoss Drives sales office for extended warranty contract options.

**130R1303** [🔗](#)**DrivePro Start-Up unit pre-order small**

Comprehensive inspection of the installation with precise parameter tuning. Functional testing of the AC drive-motor system with detailed report. Full training of personnel with complete hand-over of the AC drive system. To start commissioning, the AC drive must be installed and ready for operation. The entire system must be fully operational under normal operation conditions to ensure optimal parameter configuration. Installation and assembly is not included. DrivePro® Start-up is only available during normal working hours and in accordance to prior agreements with the client and operator of the site. General Terms and Conditions of Delivery and Warranty apply.

**130R1324** [🔗](#)**DrivePro SU + ctr interface test A,B & C**

DrivePro Start-Up Control interface testing small frame unit

**130R1321** [🔗](#)**DrivePro SU + spec. applications A,B & C**

DrivePro Start-Up special applications small frame unit

**130R1313** [🔗](#)**DrivePro Start-Up 1 day on-demand small**

tuning. Functional testing of the AC drive-motor system with detailed report. Full training of personnel with complete hand-over of the AC drive system. To start commissioning, the AC drive must be installed and ready for operation. The entire system must be fully operational under normal operation conditions to ensure optimal parameter configuration. Installation and assembly is not included. DrivePro® Start-up is only available during normal working hours and in accordance to prior agreements with the client and operator of the site. General Terms and Conditions of Delivery and Warranty apply.

Comprehensive inspection of the installation with precise parameter

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Services



**130R1312**

**DrivePro Start-Up 1 Day Pre-order small**

tuning. Functional testing of the AC drive-motor system with detailed report. Full training of personnel with complete hand-over of the AC drive system. To start commissioning, the AC drive must be installed and ready for operation. The entire system must be fully operational under normal operation conditions to ensure optimal parameter configuration. Installation and assembly is not included. DrivePro® Start-up is only available during normal working hours and in accordance to prior agreements with the client and operator of the site. General Terms and Conditions of Delivery and Warranty apply.

Comprehensive inspection of the installation with precise parameter



**130R1304**

**DrivePro Start-Up unit on-demand small**

tuning. Functional testing of the AC drive-motor system with detailed report. Full training of personnel with complete hand-over of the AC drive system. To start commissioning, the AC drive must be installed and ready for operation. The entire system must be fully operational under normal operation conditions to ensure optimal parameter configuration. Installation and assembly is not included. DrivePro® Start-up is only available during normal working hours and in accordance to prior agreements with the client and operator of the site. General Terms and Conditions of Delivery and Warranty apply.

Comprehensive inspection of the installation with precise parameter

Image coming soon

**130R1380**

**DrivePro Start-Up ½ day pre-order small**

Image coming soon

**130R1381**

**DrivePro Start-up ½ day on-demand small**

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