

**131U7087****FC-302P7K5T5E20H1XXXXXSXXXXALBXCXXXXDX**

FC-302P7K5T5E20H1XXXXXSXXXXALBXCXXXXDX

VLT® AutomationDrive FC 300

(FC-) VLT® AutomationDrive FC- 302

(P7K5) 7.5 KW / 10 HP, (5) 380 - 500 VAC,

(E20) IP20 / Chassis,

(H1) RFI Class A1/B (C1), (X) No brake chopper

(X) No Loc. Cont. Panel,

A3

Model code: FC-302P7K5T5E20H1XXXXXSXXXXALBXCXXXXDX

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**

Gross weight		7.333 kg
Net weight		6.6 kg
Volume		22.04 l
EAN		5702427985575
VLT® AUTOMATIONDRIVE FC 300 SERIES		
Product Group	FC-	(FC-) VLT® AutomationDrive FC-
Series	302	302
Power Rating	P7K5	(P7K5) 7.5 KW / 10 HP
Phase	T	(T) Three phase
Mains Voltage	5	(5) 380 - 500 VAC
Enclosure	E20	(E20) IP20 / Chassis
RFI Filter	H1	(H1) RFI Class A1/B (C1)
Brake - Safe Stop	X	(X) No brake chopper
LCP	X	(X) No Loc. Cont. Panel
Coating PCB	X	(X) Not coated PCB
Mains Option	X	(X) No Mains Option
Adaptation A	X	(X) Standard Cable Entries
Adaptation B	X	(X) No adaptation
A Option	AL	(AL) PROFINET MCA 120
B Option	BX	(BX) No B Option
C0 Option MCO	CX	(CX) No C0 option
C1 Option	X	(X) No C1 option
C Option Software	XX	(XX) No software option
D Option	DX	(DX) No D option
Frame Size	A3	A3
Typecode Part 1	FC-302P7K5T5E20H1XXX	
Typecode Part 2	XXXXXXXALBXCXXXXDX	
Continuous Current (HO) [A]	16	
Continuous Current (HO) [A]	14.5	
Continuous Current (NO) [A]	NV	

Product Detail | FC-302P7K5T5E20H1XXXXXSXXXXALBXCXXXXDX

PRODUCT DETAILS

Continuous Current (NO) [A]	NV
Depth [mm]	205,0
Depth with Option A/B [mm]	220,0
Height [mm]	268,0
Height w/ Regen/Loadshare [mm]	NV
Intermittent Current (HO) [A]	25.6
Intermittent Current (HO) [A]	23.2
Intermittent Current (NO) [A]	NV
Intermittent Current (NO) [A]	NV
kVA	11.1
Material Gross Weight	7.333
Material Net Weight	6.6
Modelcode01	FC-302P7K5T5E20H1XXX
Modelcode02	XXXSXXXXALBXCXXXXDX
Power 110% (NO) [KW]	NV
Power 150% (HO) [KW]	NV
Power 160% (HO) [KW]	7.5
Power 180% (HO) [KW]	NV
Power Loss HO [W]	225
Power Loss HO [W]	225
Power Loss NO [W]	NV
Power Loss NO [W]	NV
Product Catalog	GLBL Global (Standard)
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]	130,0

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

Accessories



130B7635 [🔗](#)

VLT® Lift Controller MCO 361

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

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Accessories



130B7531

Mounting Kit f. C Option, 60mm, A2/A3

VLT® Mounting kit for enclosure sizes A2 and A3.

Must be used when retrofitting 1 pc. of the following MCO options, together with MCB 113 Extended relay card (Located in MCO slot):

MCO 305 Programmable Motion Controller

MCO 350 Synchronizing Controller

MCO 351 Positioning controller

MCO 360 Salt Controller

MCO 361 Lift Controller

Product group: R

VLT® Mounting kit for enclosure sizes A2 and A3.

Must be used when retrofitting 1 pc. of the following MCO options, together with MCB 113 Extended relay card (Located in MCO slot):

MCO 305 Programmable Motion Controller

MCO 350 Synchronizing Controller

MCO 351 Positioning controller

MCO 360 Salt Controller

MCO 361 Lift Controller

Product group: R

VLT® Mounting kit for enclosure sizes A2 and A3.

Must be used when retrofitting 1 pc. of the following MCO options, together with MCB 113 Extended relay card (Located in MCO slot):

MCO 305 Programmable Motion Controller

MCO 350 Synchronizing Controller

MCO 351 Positioning controller

MCO 360 Salt Controller

MCO 361 Lift Controller

Product group: R



130B7530

Mounting Kit f. C Option, 40mm, A2/A3

MCF 105 assembly kit A2 / A3 for C option



130B7401

NEMA 1 Conversion Kit, Top, 10 pcs, A3



130B7145

VLT® SALT Controller MCO 360

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Accessories



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).



130B5645

Leakage Current Monitor Kit, A2, A3



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

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Accessories

**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

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

**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

Extends the functional characteristics of the frequency converter in positioning applications

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

Error handling

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- 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)

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Product group: R

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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



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.



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

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Accessories



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.

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

Painted version for harsh environments,

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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.



130B1383

acc. bag multipack 5 pc frame A2/3

Krones acc. bag multipack 5pcs for A2/3-frame.

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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

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

**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



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.

- Supports Siemens CP PCMCIA- and PCI cards, for Profibus DP-V1 Master Class 2 connection
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- For back-up of all parameter settings of frequency converters in a communication network.
- One tool for all series

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Accessories

**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.

**130B0185** **Adapter Plate, 395x220mm**

With the adapter plate you can replace a VLT® 5/6/8000 by a FC drive without having to drill new holes for the FC drive. This makes it easy and fast to replace a VLT® 5/6/8000, and as there will be no drilling there will be no swarf harming the electric components.

The following VLT® 5/6/8000 can be mounted on the Adapter Plate 130B0185:

IP20 Compact: 200-240Volt VLT5001-5006, 380/500Volt VLT5001-5011

IP20/NM1: 200-240Volt VLT6002-6005, 380/460Volt VLT6002-6011, 380-480Volt VLT8006-8011, 550-600Volt VLT 5001-5011, 525-690Volt VLT8002-8011

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Accessories



130B0058

Adapter Plate, 415x279mm

With the adapter plate you can replace a VLT® 3000 by a FC drive without having to drill new holes for the FC drive. This makes it easy and fast to replace a VLT® 3000, and as there will be no drilling there will be no swarf harming the electric components.

It is possible to install one FC drive with or without C Option in the same place as one VLT® 3000.

The following VLT® 3000 can be mounted on the Adapter Plate 130B0058:

IP20: 220/380/500Volt VLT3002-3004 with brake, 380/500Volt VLT3006-3008 with no brake

IP21: 220/380/500Volt VLT3002-3004 with brake, 380/500Volt VLT3006-3008 with no brake

IP54: 220Volt VLT3002-3004 with no brake, 220Volt VLT3004 with brake, 380/500Volt VLT3002-3004 with brake, 380/500Volt VLT3002-3006 with no brake

With the adapter plate you can replace a VLT® 3000 by a FC drive without having to drill new holes for the FC drive. This makes it easy and fast to replace a VLT® 3000, and as there will be no drilling there will be no swarf harming the electric components.

It is possible to install one FC drive with or without C Option in the same place as one VLT® 3000.

The following VLT® 3000 can be mounted on the Adapter Plate 130B0058:

IP20: 220/380/500Volt VLT3002-3004 with brake, 380/500Volt VLT3006-3008 with no brake

IP21: 220/380/500Volt VLT3002-3004 with brake, 380/500Volt VLT3006-3008 with no brake

IP54: 220Volt VLT3002-3004 with no brake, 220Volt VLT3004 with brake, 380/500Volt VLT3002-3004 with brake, 380/500Volt VLT3002-3006 with no brake



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)

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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Accessories



130B1133 [🔗](#)

IP 21/Type 1 conversion kit, top, A3

This is only the top part of the kit - If you need a kit with both top and bottom please order 130B1123

This is only the top part of the kit - If you need a kit with both top and bottom please order 130B1123

This is only the top part of the kit - If you need a kit with both top and bottom please order 130B1123



130B1127 [🔗](#)

VLT® Resolver Input MCB 103, uncoated

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



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.



130B1123 [🔗](#)

IP 21/Type 1 conversion kit, A3

Cover for housing size A3, type 1 MCF 101 NEMA1 / IP21



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.

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

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Accessories

**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

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

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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.

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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



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.



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



130B1088 [🔗](#)

LCP Blindcover, w/ Danfoss logo, IP20/21



175U0088 [🔗](#)

Mounting brackets: Footprint, A1



175U0086 [🔗](#)

Mount. Brack.: Footprint, A3, f.2 br.res



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

Image
coming
soon

175U0009 [🔗](#)

Mounting bracket Kit, 216 x 30 x 18mm

Mounting angle for flatpack resistor 200W



175N2584 [🔗](#)

VLT® EtherNet/IP Modbus TCP gateway

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Accessories

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

Image
coming
soon

134B5225 [🔗](#)

Remote LCP unit, 10m

Remote LCP unit, 10m

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

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.



130B0295 [🔗](#)

Accessory bag with control card plugs



130B1022 [🔗](#)

Accessory bag for framesize A2, A3

Spare Parts



x10

130B9001 [🔗](#)

multiple 2 pole power combicon, 24V plug

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Spare Parts

**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

**130B1012** **Terminal cover frame A1-A3 with option****130B1008** **Frame for LCP Control Pad with option****130B1022** **Accessory bag for framesize A2, A3****130B0295** **Accessory bag with control card plugs****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

**130B1073** **10 pole connector**

x10

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Spare Parts



x10

130B1072 [🔗](#)**8 pole connector****130B1069** [🔗](#)**Multiple relay 1 plug**

spare, 3 pole connector, relay 1, fc300

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

spare, 3 pole connector, relay 2, fc300

**130B1067** [🔗](#)**Multiple non-twisted mains plug****130B1064** [🔗](#)**Terminal block for brake and loadsharing**

Terminal block for brake and loadsharing

**130B1097** [🔗](#)**Fan assembly 80x80x25mm coated****130B1088** [🔗](#)**LCP Blindcover, w/ Danfoss logo, IP20/21****134B0286** [🔗](#)**EMC Shield A2, A3****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

Image
coming
soon**134B1975** [🔗](#)**Decoupling Plate for fieldbus Cables**

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Spare Parts

Image
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soon**134B7193** 

cable clamp

**130B1383** 

acc. bag multipack 5 pc frame A2/3

Krones acc. bag multipack 5pcs for A2/3-frame.

Services

**131B0052** **FC-302P7K5T5E20H1BGXXXXXSXXXXAXBXCXXXXDX**

FC-302P7K5T5E20H1BGXXXXXSXXXXAXBXCXXXXDX

VLT® AutomationDrive FC 300

(FC-) VLT® AutomationDrive FC- 302

(P7K5) 7.5 KW / 10 HP, (5) 380 - 500 VAC,

(E20) IP20 / Chassis,

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

(G) Graphical Loc. Cont. Panel,

A3

Model code: FC-302P7K5T5E20H1BGXXXXXSXXXXAXBXCXXXXDX

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.

**130R1121** **DrivePro ExWarr Work Shop PG03 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.

**130R1120** **DrivePro ExWarr Work Shop PG03 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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Services

**130R1122** **DrivePro ExWarr Work Shop PG03 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.

**130R1123** **DrivePro ExWarr Work Shop PG03 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.

**130R1126** **DrivePro ExWarr Work Shop PG03 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.

**130R1125** **DrivePro ExWarr Work Shop PG03 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.

**130R1124** **DrivePro ExWarr Work Shop PG03 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. For drives previously shipped or purchased; contact your local Danfoss Drives sales office for extended warranty contract options.

**130R1127** **DrivePro ExWarr Work Shop PG03 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

**130R1128** **DrivePro ExWarr Work Shop PG03 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.

**130R1024** **DrivePro ExWarr Onsite PG03 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.

**130R1025** **DrivePro ExWarr Onsite PG03 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.

**130R1020** **DrivePro ExWarr Onsite PG03 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.

**130R1022** **DrivePro ExWarr Onsite PG03 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.

**130R1021** **DrivePro ExWarr Onsite PG03 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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Services

**130R1027** **DrivePro ExWarr Onsite PG03 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.

**130R1026** **DrivePro ExWarr Onsite PG03 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.

**130R1028** **DrivePro ExWarr Onsite PG03 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.

**130R1023** **DrivePro ExWarr Onsite PG03 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.

**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.

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Comprehensive inspection of the installation with precise parameter



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Services

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