

131B0003

FC-302P7K5T5E20H1XXXXXXSXXXXAXBXCXXXXDX

FC-302P7K5T5E20H1XXXXXXSXXXXAXBXCXXXXDX
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-302P7K5T5E20H1XXXXXXSXXXXAXBXCXXXXDX

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		7.3 kg
Net weight		7 kg
Volume		22.04 l
EAN		5702427090583
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	AX	(AX) No A Option
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		XXXSXXXXAXBXCXXXXDX
Calculated Gross Weight		7.3
Calculated Net Weight [kg]		7
Continuous Current (HO) [A]		16

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PRODUCT DETAILS

Continuous Current (HO) [A]		14.5
Continuous Current (NO) [A]		NV
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		7.3
Material Net Weight		7
Modelcode01		FC-302P7K5T5E20H1XXX
Modelcode02		XXXSXXXXAXBXCXXXXDX
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	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]		130,0

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

Accessories

Image coming soon

130B3290

VLT® Safe option MCB 151, coated

VLT® Safe option MCB 151, painted for HTL feedback, can be used up to PL d or SIL 2

VLT® Safe option MCB 151, painted for HTL feedback, can be used up to PL d or SIL 2

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Accessories



130B3280

VLT® Safe option MCB 150, coated

Safety modules enable machines to interact intelligently with operators to increase safety, reduce system costs, improve flexibility and increase productivity.
VLT® MCB 15x Safe options provide an intelligent, user-friendly solution to meet the IEC 61800-5-2 functional safety standard and helps to reduce cabling.
The new safety module is certified according to ISO 13849-1 PL d Category 3 and SIL 2 according to IEC 61508.



130B7635

VLT® Lift Controller MCO 361

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



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

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Accessories



130B7401

NEMA 1 Conversion Kit, Top, 10 pcs, A3



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).

Image coming soon

130B9860

VLT® Safety Option MCB152, coated

Safety modules enable machines to interact intelligently with operators to increase safety, reduce system costs, improve flexibility and increase productivity.
VLT® Safety Option MCB 152 provides an intelligent, user-friendly solution to meet the IEC 61800-5-2 functional safety standard and helps to reduce cabling. MCB 152 enables activation of the Safe Torque Off (STO) irrespective of where a hazard occurs.
The new safety module is certified according to ISO 13849-1 PL d Category 3 and SIL 2 according to EN IEC 61508.
The combination of VLT® Safety Option MCB 152, PROFINET fieldbus option MCA 120, and the control card of the VLT® AutomationDrive constitutes a PROFIsafe device.



130B5646

VLT® EtherCAT MCA 124, coated

MCA 124 Ethercat option painted The VLT® EtherCat MCA 124 option enables Connection to EtherCat-based networks via the EtherCat protocol.
The option allows an EtherCat connection with full Speed and a connection to the frequency converter with a time interval of 4 ms in both Directions. This enables the MCA124 to be used in Networks from low-power applications to Servo applications.
-EoE EtherNet over EtherCat support
-HTTP (Hypertext Transfer Protocol) for diagnosis via integrated web server
-SMTP (Single Mail Transfer Protocol) for email notification
-TCP / IP for easy access to frequency converters Configuration data via MCT 10

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Accessories



130B5645

Leakage Current Monitor Kit, A2, A3



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



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



130B1245

VLT® PROFIBUS Converter MCA 113, ctd

Ensures easy and quick replacement of VLT®3000 to VLT® AutomationDrive

.

VLT® 3000 can then be replaced by VLT® AutomationDrive or

- the system Can be expanded without costly changes to the PLC program
- Flexible investment as it is easy to remove and replace option when upgrading to another fieldbus

Product group: R1

Ensures easy and quick replacement of VLT®3000 to VLT® AutomationDrive

.

VLT® 3000 can then be replaced by VLT® AutomationDrive or

- the system Can be expanded without costly changes to the PLC program
- Flexible investment as it is easy to remove and replace option when upgrading to another fieldbus

Product group: R1



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

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- Security in a cost-effective way

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

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Accessories



130B1219

VLT® EtherNet IP MCA 121, coated

EtherNet/IP extends commercial off-the-shelf Ethernet to the Common Industrial Protocol (CIP™) – the same upper-layer protocol and object model found in DeviceNet. Built-in high-performance switch enabling line-topology, and eliminating the need for external switches. Device Level Ring (DLR) topology for higher system availability. Based on CIP™, makes the reuse of PLC program possible when migrating from DeviceNet to EtherNet/IP. Built-in web server provides remote diagnosis and reading out of basic drive parameters. E-mail notification provides fast access to warnings or alarm information. Unicast and Multicast communication for improved network utilization. Certified by ODVA for fulfilment of the newest standard.



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



130B1246

VLT® PROFIBUS Converter MCA 114, ctd

A special version of the PROFIBUS options that emulates VLT® 5000 commands in the VLT® AutomationDrive. The VLT® 5000 can be replaced by the VLT® AutomationDrive, or an existing system can be expanded without costly change of the PLC program. For upgrade to a different fieldbus, the installed converter is easily removed and replaced with a new option. This secures the investment without losing flexibility. The option supports DPV1.



130B1196

VLT® Modbus TCP MCA 122

MCA 122 Modbus TCP interface Complex compatibility tests make the perfect operation in Modbus TCP systems for sure.
- On Board web-Page with Drive Status
- Parameterization with MCT10 software
- 2 port version reduces effort for external hardware (switch, cables, etc.) and allows flexible bus topologies

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Accessories



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



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,
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



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.

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Accessories



130B1205

VLT® CAN Open MCA 105, coated

CANopen interface for FC 300. Max. Baud rate 500 kBit / s. Support that DSP402 drive profile and PDO / SDO communication. Painted version for harsh environments. Easy to retrofit thanks to modular technology. CANopen interface for FC 300. Max. Baud rate 500 kBit / s. Support that DSP402 drive profile and PDO / SDO communication. Painted version for harsh environments. Easy to retrofit thanks to modular technology.



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.



130B1202

VLT® DeviceNet MCA 104, coated

MCA 104 - DeviceNet interface Option for FC300 and FC100 for mounting on the control card. Painted version



130B1200

VLT® Profibus DP V1 MCA 101, coated

Provides wide compatibility, a high level of availability, support for all major PLC vendors and compatibility with future versions. Fast, efficient communication, transparent installation, advanced diagnosis and parameterization and auto-configuration of process data using GSD-file. Acyclic parameterization using PROFIBUS DP-V1, ¬PROFIdrive or Danfoss FC profile state machines, PROFIBUS DP-V1, Master Class 1 and 2.



130B1387

opt.control,24v, multipack 5 pcs.



130B1386

VLT® Profibus DP V1 MCA 101, ctd, 5pcs



130B1385

VLT® Profibus DP V1 MCA101, unctd 5pcs



130B1383

acc. bag multipck 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



130B1296

VLT® Modbus TCP MCA 122, coated

The first industrial Ethernet-based protocol for automation. Connects to Modbus-TCP-based networks. Able to handle connection interval down to 5 ms in both directions, positioning it among the fastest performing Modbus TCP devices in the market. For master redundancy it features hot swapping between two masters.



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
- Support of standard interfaces: COMx, USB, RS 232 (Flux)
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- One tool for all series

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

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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

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

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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



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

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Accessories



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



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,unctd

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

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

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Accessories



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).



130B1119

VLT® EtherNet/IP MCA 121, uncoated

MCA 121 EtherNet / IP interface
-Allows connection to EtherNet / IP based Automation systems via CIP (CommonInterface Protocol)
-2 port design reduces external components
-HTTP for diagnosis via built-in web server
-SMTP, DHCP and FTP protocols
-Prepared for parameterization with the MCT 10 software via TCP / IP
-Certified according to ODVA



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.

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Accessories



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
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Product group: R
Product group: R
programming / setting up MCO options. Contact Danfoss for advice and prices.
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- 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



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



130B1103

VLT® CAN Open MCA 105, uncoated

Standardized handling and interoperability for high flexibility and low costs. Fully equipped with both high-priority access to control and status of the drive (PDO Communication) and access to all parameters through acyclic data (SDO Communication). For interoperability the option has implemented the DSP402 AC-drive profile.
CanOpen



130B1102

VLT® DeviceNet MCA 104, uncoated

Robust, efficient data handling thanks to advanced Producer/Consumer technology. ODVA's strong conformance testing policies ensure products are interoperable, and the AC-drive profile, supported using I/O instance 20/70.21/71, secures compatibility to existing systems.



130B1100

VLT® Profibus DP V1 MCA 101

Provides wide compatibility, a high level of availability, support for all major PLC vendors and compatibility with future versions. Fast, efficient communication, transparent installation, advanced diagnosis and parameterization and auto-configuration of process data using GSD-file. Acyclic parameterization using PROFIBUS DP-V1, ¬PROFIdrive or Danfoss FC profile state machines, PROFIBUS DP-V1, Master Class 1 and 2.



130B1088

LCP Blindcover, w/ Danfoss logo, IP20/21

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Accessories



130B1490

VLT® POWERLINK MCA 123, coated

Represents the second generation of fieldbus. The high bit rate of industrial Ethernet can now be used to make the full power of IT technologies used in the automation world available for the factory world.



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

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

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Accessories

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



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



130B1012
Terminal cover frame A1-A3 with option



130B1011
Terminal cover frame A1-A3 w/o option



130B1008
Frame for LCP Control Pad with option



130B1007
Frame for LCP Control Pad w/o 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

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Spare Parts



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-twistd 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 filedbus Cables

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Spare Parts

Image coming soon

134B7193

cable clamp



130B1383

acc. bag multipck 5 pc frame A2/3

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

Services



131B0052

FC-302P7K5T5E20H1BGXXXXSXXXXAXBXCXXXXDX

FC-302P7K5T5E20H1BGXXXXSXXXXAXBXCXXXXDX
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-302P7K5T5E20H1BGXXXXSXXXXAXBXCXXXXDX

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

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Services



130R1122

DrivePro ExWarr Work Shop PG03 36 months

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130R1123

DrivePro ExWarr Work Shop PG03 42 months

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130R1126

DrivePro ExWarr Work Shop PG03 60 months

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130R1125

DrivePro ExWarr Work Shop PG03 54 months

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130R1124

DrivePro ExWarr Work Shop PG03 48 months

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130R1127

DrivePro ExWarr Work Shop PG03 66 months

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Services



130R1128

DrivePro ExWarr Work Shop PG03 72 months

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130R1024

DrivePro ExWarr Onsite PG03 48 months

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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.
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130R1022

DrivePro ExWarr Onsite PG03 36 months

DrivePro® On-site Extended Warranty provides repair at the customer site, or replacement at the customer site.
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130R1021

DrivePro ExWarr Onsite PG03 30 months

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



130R1027

DrivePro ExWarr Onsite PG03 66 months

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130R1026

DrivePro ExWarr Onsite PG03 60 months

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130R1028

DrivePro ExWarr Onsite PG03 72 months

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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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Services



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



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

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Services

Image coming soon

130R1381

DrivePro Start-up ½ day on-demand small

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