

**134G6672****FC-302N132T5E21H2XGC3XXSXXXXAXBXXXXX**

Frequency converter

FC-302N132T5E21H2XGC3XXSXXXXAXBXXXXX

VLT® AutomationDrive FC-302

(N132) 132 KW / 200 HP,

Three phase, 380 - 500 VAC, IP21 / Type 1

RFI Filter

No brake chopper

Graphical Loc. Cont. Panel

Coated PCB, Mains Disconnect + Fuse

Latest release std. SW.

Frame: D5H

No A Option, No B Option

No C1 option, No D option

Other options according to Model code

Model code: FC-302N132T5E21H2XGC3XXSXXXXAXBXXXXX

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	142 Kilogram		
Net weight	102 Kilogram		
EAN	5710107571277		
Product View (Switch)	GLBL	Global (Standard)	
Product Group	FC-	VLT® AutomationDrive FC-	Adjustable Frequency Converter
Series	302	302	Advanced version
Power Rating	N132	(N132) 132 KW / 200 HP	
Phase	T	Three phase	
Mains Voltage	5	380 - 500 VAC	
Enclosure	E21	IP21 / Type 1	For dry room mounting B, C, D and E Frames; A Frames not included
RFI Filter	H2	RFI Filter	H1: Integrated EMC filter. Fulfil EN 55011 Class A1/B and EN/IEC 61800-3 Category 1/2. H2: No extra EMC filter. Fulfil EN 55011 Class A2 and EN/IEC 61800-3 Category 3. H3: Integrated EMC filter. Fulfil EN 55011 class A1/B and EN/IEC 61800-3 Category 1/2 (enclosuresize A1 only). See Design Guide for specific cable length depending on power size.
Brake - Safe Stop	X	No brake chopper	
LCP	G	Graphical Loc. Cont. Panel	Graphical Local Control Panel (LCP-102)

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PRODUCT DETAILS

Coating PCB	C	Coated PCB	
Mains Option	3	Mains Disconnect + Fuse	
Adaptation A	X	Standard Cable Entries	
Adaptation B	X	No adaptation	
Software Release	SXXX	Latest release std. SW.	
Software Language Pack	X	Standard Language Pack	Software
A Option	AX	No A Option	
B Option	BX	No B Option	
C0 Option MCO	CX	No C0 option	
C1 Option	X	No C1 option	
C Option Software	XX	No software option	Configuration software for speed synchronisation between drives
D Option	DX	No D option	
Frame Size	D5H	D5H	
Typecode Part 1		FC-302N132T5E21H2XGC	
Typecode Part 2		3XXSXXXXAXBXXXXDX	
Product Catalog	NO_VIEW	NO VIEW	
Power 150% (HO) [KW]	132	132	
Power 110% (NO) [KW]	160	160	
Height [mm]	1324,0	1324,0	
Width w/ no C options [mm]	325,0	325,0	
Depth [mm]	381,0	381,0	
Depth with Option A/B [mm]	381,0	381,0	
kVA	180	180	
Power Loss NO [W]	3770	3770	
Power Loss NO [W]	3628	3628	
Power Loss HO [W]	2923	2923	
Power Loss HO [W]	2689	2689	
Continuous Current (NO) [A]	315	315	
Intermittent Current (NO) [A]	346	346	
Continuous Current (NO) [A]	302	302	
Intermittent Current (NO) [A]	332	332	
Continuous Current (HO) [A]	260	260	
Intermittent Current (HO) [A]	390	390	
Continuous Current (HO) [A]	240	240	
Intermittent Current (HO) [A]	360	360	
Calculated Gross Weight [kg]		166.3	
Calculated Net Weight [kg]		166	
ECCN EU	Y901	Y901	
ECCN US	3A999.a	3A999.a	
Vendor	ERR01	Cannot Determine Vendor	
Recommended Factory	ERR01	Cannot Determine Vendor	
Modelcode01		FC-302N132T5E21H2XGC	
Modelcode02		3XXSXXXXAXBXXXXDX	
Recommended Plant	ERR01	ERR01	

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

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Accessories

Image
coming
soon

176F6341 **VLT® Mains Shield Kit D5H Framesize****130B7635** **VLT® Lift Controller MCO 361**

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

**130B7145** **VLT® SALT Controller MCO 360****130B5646** **VLT® EtherCAT MCA 124, coated**

via MCT 10

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

**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

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Accessories

**130B1234** **VLT® Motion Control MCO 305, coated**

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

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

Contains:

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

10 digital inputs

- 8 digital outputs

- Sends and receives data via fieldbus interface (requires fieldbus option)

- PC software for programming and commissioning

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

130B7530 - Mounting kit for enclosures A2 and A3

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

130B1413 - Mounting kit for enclosure B3

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

130B7532 - Mounting kit for enclosure A5

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

Danfoss MCO options are not sold without prior advice.

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

Contact Danfoss for advice and prices.

Product group: R

**130B1245** **VLT® PROFIBUS Converter MCA 113, ctd**

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

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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

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Accessories

**130B1220** **VLT® Safe PLC I/O MCB 108, coated**

Increases security and helps you meet requirement security levels

- VLT® AutomationDrive FC 302 has a safety input based on a single pole 24 V DC input
- Security in a cost-effective way

Possibility of connection to two conductor safety system

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

**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.

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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

**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

**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.

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Accessories

**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

**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

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Accessories

**130B1208** [🔗](#)**1x MCB 107 24V DC coat w. mount. brackets**

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.

**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.

**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** [🔗](#)**5x MCB107 24VDC no coat w.out mount brack****130B1386** [🔗](#)**VLT® Profibus DP V1 MCA 101, ctd, 5pcs****130B1385** [🔗](#)**VLT® Profibus DP V1 MCA101, unctd 5pcs**

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

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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.

**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



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.



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).

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Accessories

**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.

**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)

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Product group: R



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.



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



130B1077

Blindcover, w/ Danfoss logo, IP55/66

LCP Blindcover IP66



130B1071

6 Pole Connector, FC series, 10 pcs

6-pole spring cage connectors 10 pcs

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Accessories

**130B1070** **RS485 plug, FC series,10 pcs**

10pcs RS485 connectors for FC-series.

Product group: R

**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.

**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.



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

134B5225 [🔗](#)

Remote LCP unit, 10m

Remote mounting kit for LCP with cover for outdoor mounting with 10 m (33 ft) cable

Image
coming
soon

134B5224 [🔗](#)

Remote LCP unit, 5m

Remote mounting kit for LCP with cover for outdoor mounting with 5 m (16 ft) cable



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

Image
coming
soon

134B1992

Control Terminals w/ screw connections



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

Image
coming
soon

176F3530

kit,cooling,in back/out back,d5h d6h



130B0295

sparepart/terminals accessory bag

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Product Detail | FC-302N132T5E21H2XGC3XXSXXXXXAXBXCXXXXDX

Accessories

Image
coming
soon**130B4847** 

extension cable for lcp+communication

**134B8814** 

VLT® PROFINET MCA120 coated 5pcs

**134B8492** 

Transducer 0-10g, 4-20mA; HS-22B50

**134B8493** 

Transducer 0-25mm/s RMS 4-20mA

CBM Transducer 0-25mm/s RMS 4-20mA

**134B8494** 

Transducer w, temp 0-25mm/s RMS 4-20mA

**134B8496** 

CABLE ASSY 10M, STRAIGHT SOCKET CONNETC.

Image
coming
soon**134B8497** 

Cable assy, M12 female connec.10m screen

Image
coming
soon**134B6883** 

VLT Progr. Contr. MCB 301, coated

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Accessories



134B9414

Antifreeze Thermostat FS20, 0/+15C

TWO-PHASE FROST PROTECTION THERMOSTATS FS-20-UW

Electronic frost protection thermostat or frost monitor with switching relay output, continuous temperature and valve output (summation output 0–10 V) and control and cascading output (0–10 V), optionally with connection for a heating element. A IP65 resistant plastic housing with display with the actual temperature, measuring range, overrange/underrange of the set switch point (frost protection temperature) and alarm indicator for "frost" or "error" (capillary breakage, overvoltage/undervoltage), quick-locking screws and a fully active sensor rod made of copper. The delivery scope includes a set of MK-05-K mounting clamps for expert attachment of the sensor rod.

Measuring range: 0...+15 °C / 32...+59 °F

Accuracy: typical ± 1 K (at +10 °C)

Sensor type: 3m Copper rod active along the entire sensor length, min. response length of 25 cm

Input: 1 x 0 -10 V control input DDC

1 x 0 -10 V output valve (frost signal with control voltage and cascading)

1 x potential-free changeover contact (24 V), range of adjustment 0...+15 °C

Current consumption: max. 100 mA at 24 V DC

Load resistance: RL > 50 kOhm

Ambient temperature: –15...+50 °C / 5...+122 °F (Housing) –20...+60 °C / –4...+140 °F Sensor and capillary tube > 20 cm from the housing.

Power: 24VAC/DC (± 10%) 24DC < 2,4W

T2-IP65 plastic housing with three-line display 70x40 mm (WxH), a M16 cable glands and MK-05-K mounting clamps.

Housing dimensions: 126 x 90 x 50 mm / 4.96 x 3.54 x 1.97 in

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Accessories



134B9413

Airflow Sensor KLQ CO2 & Air Quality

DUCT AIR QUALITY (VOC) AND CO2 SENSOR KLQ-CO2-MB

Maintenance-free duct sensor covering air quality (VOC 0...100 %), carbon dioxide (CO2 0...5000 ppm) and atmospheric pressure (hPa). The air quality is detected by a VOC sensor (mixed gas sensor for volatile organic substances) and include an automatic calibration. It determines the loading of the room air due to contaminated gases such as cigarette smoke, body perspiration, exhaled breathing air, solvent vapors, emissions etc. The air contamination can be selected into different sensitivity ranges as low, medium or high. The CO2 measurement is performed using an optical NDIR sensor (non-dispersive infra-red technology), and the detection range is calibrated for standard applications such as monitoring residential rooms and conference rooms. A microprocessor-controlled solution with factory sensor calibration, Modbus RTU connection in a resistant IP65 plastic housing with mounting flange, quick-locking screws and two M16 cable gland for cable connection. International SI units (default) can be changed to imperial (via Modbus).

VOC Sensor: Volatile Organic Compounds sensor (metal oxide) with automatic calibration

VOC measuring range: 0...100 % air quality; referred to calibrating gas

temperature dependence: ± 5 ppm pro $^{\circ}\text{C}$ or $\pm 0,5$ % of measured value pro

$^{\circ}\text{C}$ (whichever is higher) pressure dependence: ± 0.13 % per mm Hg

Medium: clean air and non-aggressive, non-combustible gases

Power: 24VAC/DC ($\pm 10\%$) 24DC <1,6W

Operation temperature: $-10...+60$ $^{\circ}\text{C}$ / $14...+140$ $^{\circ}\text{F}$

T2-IP65 plastic housing two M20 cable glands

Housing dimensions: 126 x 90 x 50 mm / 4.96 x 3.54 x 1.97 in



134B9412

Airflow Sensor TF65 PT1000 Temperature

DUCT TEMPERATURE SENSOR TF 65

The TF 65 temperature measuring transducer is a PT1000 class B resistance sensor with passive output. Measuring range from $-30...+150$ $^{\circ}\text{C}$. In a resistant IP67 plastic housing and M16 cable gland for cable connection and a straight protective measuring tube and a mounting flange.

Sensor type: PT1000 class B (DIN EN 60751) 1000ohm at $0^{\circ}\text{C} \pm 0,3$ K

Measuring range: $-30...+150$ $^{\circ}\text{C}$ / $-22...+302$ $^{\circ}\text{F}$

Ambient temperature: $-20...+100$ $^{\circ}\text{C}$ / $-4...+212$ $^{\circ}\text{F}$

Testing current: < 0.6 mA

Insulating resistance: 100 M#, at $+20$ $^{\circ}\text{C}$ (500V DC)

Connection type: 2-wire connection

Measuring tube: stainless steel, V4A (1.4571), $\varnothing 6$ mm, inserted length = 300 mm / 11.8 in

T1-IP67 plastic housing with a M16 cable glands and a mounting flange.

Housing dimensions: 72 x 64 x 37.8 mm / 2.83 x 2.52 x 1.49 in

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Accessories



134B9411

Wall Sensor AFTF Temp & Humidity

ON-WALL- HUMIDITY- AND TEMPERATURE SENSORS AFTF-MB

Calibratable outside humidity and temperature sensor AFTF, detect the relative humidity (0...100% RH) and the temperature (-35...+80 °C), including various parameters in the humidity measurement. Applied in clean air and non-aggressive, dust-free environment. With a Modbus connection in a resistant IP65 plastic housing and M20 cable gland for cable connection, with quick-locking screws and an exchangeable plastic sinter filter. International SI units (default) can be changed to imperial (via Modbus).

Measuring range: 0...100 % RH (humidity) / - 35...+80 °C (temperature)

Medium: clean air and non-aggressive, non-combustible gases

Deviation, humidity: typical ± 2.0 % (20...80 % RH) at +25 °C, otherwise ± 3.0 %

Deviation, temperature: typical ± 0.4 K at +25 °C / ± 77 °F

Zero point offset: ± 10 % RH (humidity) / ± 5 °C (temperature)

Power: 24VAC ($\pm 20\%$) / 15...36VDC - 24DC <1,2W

Operation temperature: -30...+70 °C / -22...+158 °F

T3-IP65 plastic housing with two M20 cable glands

Housing dimensions: 108 x 78.5 x 43.3 mm / 4.25 x 3.1 x 1.7 in



134B9410

Wall Sensor ATM2 Temperature

OUTSIDE / WET ROOM TEMPERATURE SENSOR ATM2-MB

Calibratable outside temperature sensor ATM2, PT1000 measure temperature (-50...+150 °C), with Modbus RTU connection, in a resistant IP65 plastic housing with quick-locking screws and M20 cable gland for cable connection. International SI units (default) can be changed to imperial (via Modbus).

Sensor type: PT1000 class B (DIN EN 60751)

Measuring range: - 50...+150°C / -31... +176°F

Deviation: typical ± 0.2 K at +25 °C / ± 77 °F

Zero point offset: ± 10 °C / ± 50 °F

Ambient temperature: Measuring transducer -30...+70 °C / -22... +158°F

Medium: clean air and non-aggressive, non-combustible gases

Power: 24VAC ($\pm 20\%$) / 15...36VDC - 24DC <1,2W

Operation temperature: -30...+70 °C / -22...+158 °F

T3-IP65 plastic housing with two M20 cable glands

Housing dimensions: 108 x 78.5 x 43.3 mm / 4.25 x 3.1 x 1.7 in

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134B9409

Airflow Sensor 8147 Temp&Humidity&7000Pa

DUCT HUMIDITY-, TEMPERATURE- AND PRESSURE SENSORS ± 7000 Pa-MB
Maintenance-free duct sensor covering humidity, temperature and pressure in one transducer. Microprocessor-controlled with Modbus RTU connection in a resistant IP65 plastic housing with quick-locking screws and M16 cable gland for cable connection. Including mounting flange to detect the relative humidity (0...100% RH) and the temperature ($-35...+80$ °C) inside a tube, with an exchangeable plastic sinter filter. A differential air pressure (max. ± 7000 Pa) with connection nozzles for pressure hose ($\varnothing 6$ mm). The duct sensor is applied in a non-aggressive and dust-free environment and is suitable for installation in ceilings, ducts and devices. International SI units (default) can be switched to Imperial (via Modbus).
Measuring range: 0...100 % RH (humidity) / $-35...+80$ °C / $-31...+176$ °F (temperature)
Medium: clean air and non-aggressive, non-combustible gases
Deviation, humidity: typical ± 2.0 % (20...80 % RH) at $+25$ °C / $+77$ °F , otherwise ± 3.0 %
Deviation, temperature: typical ± 0.2 K at $+25$ °C / ± 0.4 °F at $+77$ °F
Pressure range: ± 7000 Pa
Accuracy: 7000 Pa/28 inWC: typical ± 105 Pa at $+25$ °C / ± 0.12 inWC at $+77$ °F
Above- # below-pressure: max. ± 50 kPa
Power: 24VAC (± 20 %) / 15...36VDC - 24DC <0,2W
Operation temperature: $-30...+70$ °C / $-22...+158$ °F
Media temperature $-20...+50$ °C / $-4...+122$ °F IP65 plastic housing two M16 cable glands
Housing dimensions: 126 x 90 x 50 mm / 4.96 x 3.54 x 1.97 in

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Accessories

Image
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soon**134B9408** **Airflow Sensor 8148 Temp&Humidity&500Pa**

DUCT HUMIDITY-, TEMPERATURE- AND PRESSURE SENSORS ± 500 Pa-MB
Maintenance-free duct sensor covering humidity, temperature and pressure in one transducer. Microprocessor-controlled with Modbus RTU connection in a resistant IP65 plastic housing with quick-locking screws and M16 cable gland for cable connection. Including mounting flange to detect the relative humidity (0...100% RH) and the temperature ($-35...+80$ °C) inside a tube, with an exchangeable plastic sinter filter. A differential air pressure (max. ± 500 Pa) with connection nozzles for pressure hose ($\varnothing 6$ mm). The duct sensor is applied in a non-aggressive and dust-free environment and is suitable for installation in ceilings, ducts and devices. International SI units (default) can be switched to Imperial (via Modbus).
Measuring range: 0...100 % RH (humidity) / $-35...+80$ °C / $-31...+176$ °F (temperature)
Medium: clean air and non-aggressive, non-combustible gases
Deviation, humidity: typical ± 2.0 % (20...80 % RH) at $+25$ °C / $+77$ °F , otherwise ± 3.0 %
Deviation, temperature: typical ± 0.2 K at $+25$ °C / ± 0.4 °F at $+77$ °F
Pressure range: ± 500 Pa
Accuracy: 500 Pa/2.0 inWC: typical ± 13 Pa at $+25$ °C / ± 0.05 inWC at $+77$ °F
Above- # below-pressure: max. ± 50 kPa
Power: 24VAC (± 20 %) / 15...36VDC - 24DC <0,2W
Operation temperature: $-30...+70$ °C / $-22...+158$ °F
Media temperature $-20...+50$ °C / $-4...+122$ °F IP65 plastic housing two M16 cable glands
Housing dimensions: 126 x 90 x 50 mm / 4.96 x 3.54 x 1.97 in

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Accessories

**134B9407** **Airflow Sensor KFTF Temp & Humidity**

DUCT HUMIDITY- AND TEMPERATURE SENSORS KFTF-MB

Calibratable duct humidity and temperature sensor KFTF-T3 ($\pm 2.0\%$) with Modbus RTU connection, in a resistant IP65 plastic housing with quick-locking screws and M16 cable gland for cable connection and a plastic sinter filter (exchangeable). Including mounting flange to detect the relative humidity (0...100% RH) and the temperature ($-35...+80\text{ }^{\circ}\text{C}$) inside a tube, including various parameters in the humidity measurement. The duct sensor is applied in a non-aggressive and dust-free environment and is suitable for installation in ceilings, ducts and devices.

International SI units (default) can be switched to Imperial (via Modbus).

Measuring range: 0...100 % RH (humidity) / $-35...+80\text{ }^{\circ}\text{C}$ (temperature)

Medium: clean air and non-aggressive, non-combustible gases

Deviation, humidity: typical $\pm 2.0\%$ (20...80 % RH) at $+25\text{ }^{\circ}\text{C}$, otherwise $\pm 3.0\%$

Deviation, temperature: typical $\pm 0.2\text{ K}$ at $+25\text{ }^{\circ}\text{C}$

Zero point offset: $\pm 10\%$ RH (humidity) / $\pm 5\text{ }^{\circ}\text{C}$ (temperature)

Power: 24VAC ($\pm 20\%$) / 15...36VDC - 24DC <1,2W

Operation temperature: $-30...+70\text{ }^{\circ}\text{C}$ / $-22...+158\text{ }^{\circ}\text{F}$

T3-IP65 plastic housing with two M20 cable glands

Housing dimensions: 108 x 78.5 x 43.3 mm / 4.25 x 3.1 x 1.7 in

**134B9406** **Pressure Sensor 7227 2x7000Pa, Analog**DUAL AIR PRESSURE SENSOR $\pm 7000\text{ Pa}$ $\pm 7000\text{ Pa}$, ANALOGUE

Dual pressure transmitter with 2x8 switchable measuring ranges and 2 automated analogue output signals in a resistant IP65 plastic housing with quick-locking screws, connection nozzles for pressure hose ($\varnothing 6\text{ mm}$) and a M16 cable gland for cable connection. The pressure measuring transducer automatically detects the required output type and converts the measurands into the required standard signal of 0-10 V or 4...20 mA.

Pressure range selection: $\pm 7000\text{ Pa}$ - 0...1000Pa / 2000Pa / 3000Pa / 5000Pa / 7000Pa

Accuracy: 7000 Pa typical $\pm 105\text{ Pa}$

Zero point offset: $\pm 10\%$ of measuring range

Above- # below-pressure: max. $\pm 50\text{ kPa}$

Power: 24VAC/DC ($\pm 10\%$) <1,3W,

Output: automatically switching 0-10 V # 4...20 mA

Working resistance: R_a (ohms) = 25...450 Ohm (at I output)

Load resistance: R_L > 15 kOhm (at U output)

Operation / Media temperature: $-20...+50\text{ }^{\circ}\text{C}$ / $-4...+122\text{ }^{\circ}\text{F}$

T2-IP65 plastic housing with one M16 cable gland

Housing dimensions: 126 x 90 x 50 mm / 4.96 x 3.54 x 1.97 in

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Accessories

**134B9405****Pressure Sensor 7229 500/7000Pa, Analog**DUAL AIR PRESSURE SENSOR $\pm 500\text{Pa}$ $\pm 7000\text{Pa}$, ANALOGUE

Dual pressure transmitter with 2x8 switchable measuring ranges and 2 automated analogue output signals in a resistant IP65 plastic housing with quick-locking screws, connection nozzles for pressure hose ($\varnothing$ 6 mm) and a M16 cable gland for cable connection. The pressure measuring transducer automatically detects the required output type and converts the measurands into the required standard signal of 0–10 V or 4...20 mA. Pressure range selection: $\pm 500\text{ Pa} - 0...100\text{Pa} / 200\text{Pa} / 300\text{Pa} / 500\text{Pa}$ Pressure range selection: $\pm 7000\text{ Pa} - 0...1000\text{Pa} / 2000\text{Pa} / 3000\text{Pa} / 5000\text{Pa} / 7000\text{Pa}$

Accuracy: 500 Pa typical $\pm 13\text{ Pa}$ Accuracy: 7000 Pa typical $\pm 105\text{ Pa}$ Zero point offset: $\pm 10\%$ of measuring rangeAbove- # below-pressure: max. $\pm 50\text{ kPa}$ Power: 24VAC/DC ($\pm 10\%$) <1,3W,

Output: automatically switching 0–10 V # 4...20 mA

Working resistance: R_a (ohms) = 25...450 Ohm (at I output)Load resistance: R_L > 15 kOhm (at U output)Operation / Media temperature: $-20...+50\text{ }^\circ\text{C} / -4...+122\text{ }^\circ\text{F}$

T2-IP65 plastic housing with one M16 cable gland

Housing dimensions: 126 x 90 x 50 mm / 4.96 x 3.54 x 1.97 in

**134B9404****Pressure Sensor 7225 2x500Pa, Analog**DUAL AIR PRESSURE SENSOR $\pm 500\text{Pa}$ $\pm 500\text{Pa}$, ANALOGUE

Dual pressure transmitter with 2x8 switchable measuring ranges and 2 automated analogue output signals in a resistant IP65 plastic housing with quick-locking screws, connection nozzles for pressure hose ($\varnothing$ 6 mm) and a M16 cable gland for cable connection. The pressure measuring transducer automatically detects the required output type and converts the measurands into the required standard signal of 0–10 V or 4...20 mA.

Pressure range selection: $\pm 500\text{ Pa} - 0...100\text{Pa} / 200\text{Pa} / 300\text{Pa} / 500\text{Pa}$ Accuracy: 500 Pa typical $\pm 13\text{ Pa}$ Zero point offset: $\pm 10\%$ of measuring rangeAbove- # below-pressure: max. $\pm 50\text{ kPa}$ Power: 24VAC/DC ($\pm 10\%$) <1,3W,

Output: automatically switching 0–10 V # 4...20 mA

Working resistance: R_a (ohms) = 25...450 Ohm (at I output)Load resistance: R_L > 15 kOhm (at U output)Operation / Media temperature: $-20...+50\text{ }^\circ\text{C} / -4...+122\text{ }^\circ\text{F}$

T2-IP65 plastic housing with one M16 cable gland

Housing dimensions: 126 x 90 x 50 mm / 4.96 x 3.54 x 1.97 in

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Accessories

**134B9402** **Pressure Sensor 7247T 2x7000PPa & PT1000**

DUAL AIR PRESSURE SENSOR $\pm 7000\text{Pa}$ Temperature drift: $\pm 0.1\%$ per $^{\circ}\text{C}$ #
 $^{\circ}\text{F}$

Zero point offset: $\pm 10\%$ of measuring range

Above- # below-pressure: max. $\pm 50\text{ kPa}$ / $\pm 200\text{ inWC}$

Power: 24VAC ($\pm 20\%$) <0,2W / $15\ldots 36\text{VDC}$

Operation temperature: $-30\ldots +70\text{ }^{\circ}\text{C}$ / $-22\ldots +158\text{ }^{\circ}\text{F}$

Media temperature $-20\ldots +50\text{ }^{\circ}\text{C}$ / $-4\ldots +122\text{ }^{\circ}\text{F}$

T2-IP65 plastic housing with two M16 cable glands one M12 for
temperature

Housing dimensions: $126 \times 90 \times 50\text{ mm}$ / $4.96 \times 3.54 \times 1.97\text{ in}$

**134B9401** **Pressure Sensor 7249T 500/7000Pa & PT1000**

DUAL AIR PRESSURE SENSOR $\pm 500\text{Pa}$ Temperature drift: $\pm 0.1\%$ per $^{\circ}\text{C}$ #
 $^{\circ}\text{F}$

Zero point offset: $\pm 10\%$ of measuring range

Above- # below-pressure: max. $\pm 50\text{ kPa}$ / $\pm 200\text{ inWC}$

Power: 24VAC ($\pm 20\%$) <0,2W / $15\ldots 36\text{VDC}$

Operation temperature: $-30\ldots +70\text{ }^{\circ}\text{C}$ / $-22\ldots +158\text{ }^{\circ}\text{F}$

Media temperature $-20\ldots +50\text{ }^{\circ}\text{C}$ / $-4\ldots +122\text{ }^{\circ}\text{F}$

T2-IP65 plastic housing with two M16 cable glands one M12 for
temperature

Housing dimensions: $126 \times 90 \times 50\text{ mm}$ / $4.96 \times 3.54 \times 1.97\text{ in}$

**134B9400** **Pressure Sensor 7245T 2x500Pa & PT1000**

DUAL AIR PRESSURE SENSOR $\pm 500\text{Pa}$ Temperature drift: $\pm$
 0.1% per $^{\circ}\text{C}/^{\circ}\text{F}$

Zero point offset: $\pm 10\%$ of measuring range

Above-/below-pressure: max. $\pm 50\text{ kPa}$ / $\pm 200\text{ inWC}$

Power: 24VAC ($\pm 20\%$) <><><>0,2W / $15\ldots 36\text{VDC}$

Operation temperature: $-30\ldots +70\text{ }^{\circ}\text{C}$ / $-22\ldots +158\text{ }^{\circ}\text{F}$

Media temperature $-20\ldots +50\text{ }^{\circ}\text{C}$ / $-4\ldots +122\text{ }^{\circ}\text{F}$

T2-IP65 plastic housing with two M16 cable glands one M12 for
temperature

Housing dimensions: $126 \times 90 \times 50\text{ mm}$ / $4.96 \times 3.54 \times 1.97\text{ in}$

**130B5601** **VLT® DeviceNet converter MCA194 coated**

VLT® DeviceNet converter MCA194 coated

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Spare Parts

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176F3549 
Cover DC Link Coil Small Dh Frame



176F3545 
DC Link Coil small Dh Frame 122uH
DC Link Coil small Dh Frame 122uH



176F3540 
Heatsink fan cover Dh Frames

Image
coming
soon

176F3481 
Mains Shield D1h Frame



176F4709 
Repair Kit, NG D-Frame, T4/T5, 90kW-160kW

Image
coming
soon

176F3761 
Loadshare Retrofit Kit for D4h Frame

Image
coming
soon

176F3760 
Loadshare Retrofit Kit for D3h Frame



176F3331 
Cable Gate Drive to Inrush D1h/D3h



176F3328 
Cable Power Card to Gate Drive D1h/D3h



176F3326 
Cable Power Card to HF/RFI D1h/D3h

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Spare Parts

**176F3324** **Cable DC bus to Power Card D1h/D3h****176F3322** **Cable Power Card to CT D1h-D3h**

For use on drives produced in week 50, 2015 or earlier.

**176F3320** **Cable Power Card to Door Fan D1h/D3h****176F3433** **Disconnect 400A 690V**

Main disconnect

**176F3359** **Bus Bar mains, RFI, no fuse D1h/D3h****176F3358** **Bus Bar mains, fuse, no RFI D1h/D3h**

Bus Bar mains, fuse, no RFI D1h/D3h

**176F3357** **Bus Bar mains, no fuse, no RFI D1h/D3h****176F3356** **Bus Bar motor terminals U,V,W D1h/D3h**

For use on drives produced in week 50, 2015 or earlier.

**176F3355** **Insulation Motor Terminals D1h/D3h****176F3354** **Insulation Mains Terminals D1h/D3h****For more information, please use this link to visit the product page on Danfoss Product Store** 

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Spare Parts

**176F3353** **Door filter, D1h-D8h, E1h-E4h, Fx09-12**

IP21/IP54 door filter 3 per drive, 10 per kit

**176F3352** **Air Baffle D1h frame****176F3350** **Bus Bar Assembly CAP Bank 400V D1h/D3h**

To be used on the following frame sizes

D-frame: Drives produced before week 18, 2018 with production site "H" indicated by the character preceding the last 3 characters of the serial number (H188)

**176F3349** **Bracket Gate Drive Support D1h/D3h****176F3348** **Bracket Inrush Support D1h/D3h****176F3347** **Busbar Current Sensor D1h/D3h - 300A**

For use on drives produced in week 50, 2015 or earlier.

**176F3346** **Bus Bar Assembly SCR to DC coil D1h/D3h****176F3345** **Cable Clamp 45mm Dh Frame****176F3340** **Bus Bar DC- Inductor to CAP Bank D1h/D3h****176F3339** **Bus Bar DC+ Inductor to CAP Bank D1h/D3h**

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

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Spare Parts

**176F3338** **Bus Bar SCR AC Input D1h/D3h****176F3333** **Cable Inrush to SCR Gate D1h/D3h****176F3375** **Door Vent Kit IP21/IP54****176F3360** **Bus Bar mains, fuse, RFI D1h/D3h****176F6634** **CAPACITOR T5**

To be used on the following frame sizes

D-frame: Drives produced during or after week 18, 2018 with production site "H" indicated by the character preceding the last 3 characters of the serial number (H188)

E-frame: Any datecode

**176F8348** **Disconnect handle rod D2 frame****176F8342** **Current sensor 300AMP**

For use on drives produced in week 50, 2015 or earlier.

Image
coming
soon**176F6721** **FRONT COVER DISCONNECT D5H ENCLOSURE****176F8318** **Rectifier SCR 181A 1600V**

SCR / Diode, 181A, 1600V, 1 per kit ,3 per drive

Image
coming
soon**176F5739** **Extended Option Adaptor Plate D1h Frame****For more information, please use this link to visit the product page on Danfoss Product Store** 

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Product Detail | FC-302N132T5E21H2XGC3XXSXXXXAXBXXXXDX

Spare Parts

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coming
soon**176F5734** **Front Cover IP21/IP54 D1h enclosure****176F6519** **Cable Power Card to CT D1h-D3h**

For use on drives produced in week 51, 2015 or later.

**176F6518** **Bus Bar motor terminals U,V,W D1h/D3h**

For use on drives produced in week 51, 2015 or later.

**176F6516** **300A Current Sens. Conv. Kit - D1h / D3h**

Spare part for VLT: 300A Current Sensor Conversion Kit - D1H Frame

**176F6515** **Current sensor 300A**

Current sensor, 1 per kit

Image
coming
soon**176F6443** **Gland Plate D5h/D6h Frame****176F3183** **Cable Control Card to Power Card D1h D3h****176F3181** **Cable LCP to Control Card D1h D3h****176F3177** **Cable IGBT Temp to Gate PCA D1h D3h****176F3175** **Cable IGBT Gate Signal D1h D3h****For more information, please use this link to visit the product page on Danfoss Product Store** 

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Spare Parts

**176F3172** **Fuse 400A 700V Square Body**

Mains fuse, 1 per kit

**176F3168** **Door Fan IP21/54 DC 120x25****176F3167** **Fan DC 80X38 48VDC**

IP20, top fan, 80x38mm, 48VDC, fan only

**176F3165** **Mixing Fan DC 40x28**

Mixing fan, mounted below the input terminals

**176F3164** **Heatsink Fan DC 172x51****176F3163** **DC Bus CAP 4700uF 450V single in housing**

To be used on the following frame sizes

D-frame: Drives produced before week 18, 2018 with production site "H" indicated by the character preceding the last 3 characters of the serial number (H188)

**176F3161** **BALANCE/HF CARD NO 110-560KW 400V****176F3160** **Gate Drive Card NO 110-315kW 400V****176F3159** **Inrush Card NO 110-315kW 400V****176F3155** **Current scaling board 3.11 ohm**

Installs on the power board

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Product Detail | FC-302N132T5E21H2XGC3XXSXXXXAXBXXXXDX

Spare Parts

**176F3142** [🔗](#)**Power Card NO 160kW 380-500V**Image
coming
soon**176F8430** [🔗](#)**Cable Clamp for frame size D & E****130B7530** [🔗](#)**Mounting Kit f. C Option, 40mm, A2/A3**

MCF 105 assembly kit A2 / A3 for C option



x10

130B9001 [🔗](#)**multiple 2 pole power combicon, 24V plug****130B5601** [🔗](#)**VLT® DeviceNet converter MCA194 coated**

VLT® DeviceNet converter MCA194 coated

**130B0295** [🔗](#)**sparepart/terminals accessory bag****130B1069** [🔗](#)**Multiple relay 1 plug**

spare, 3 pole connector, relay 1, fc300

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

spare, 3 pole connector, relay 2, fc300

**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**

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

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Spare Parts

**134B1726** **Control Card with safe stop for FC-302**

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
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soon

176F6765 **Bus Bar Assy Capbank Twist 400V D1h/D3h**

To be used on the following frame sizes

D-frame: Drives produced during or after week 18, 2018 with production site "H" indicated by the character preceding the last 3 characters of the serial number (H188)

**176F3876** **FC302 Advanced Spare Pkg 132kW T5 D3h**

1 Qty 176F3159 Inrush Card NO 110-315kW 400V
1 Qty 176F3142 Power Card NO 160kW 380-500V
1 Qty 134B1726 Control Card for FC-302
3 Qty 176F3363 IGBT DUAL MODULE 600A, T4/T5
3 Qty 176F8318 Rectifier SCR 181A 1600V

**176F3875** **FC302 Standard Spare Pkg 132kW T5 D3h**

1 Qty 176F3159 Inrush Card NO 110-315kW 400V
1 Qty 176F3142 Power Card NO 160kW 380-500V
1 Qty 134B1726 Control Card for FC-302

**176F3885** **FC102-302 Maintenance Pkg D1H,D5H,D6H**

1 Qty 176F3164 Heatsink Fan DC 172x51 48VDC
1 Qty 176F3165 MIXING FAN DC 40X28 24VDC
1 Qty 176F3168 Door Fan IP21/54 DC 120x25
1 Qty 176F3353 Door Fan Filter

Image
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soon

176F6762 **Auxiliary Contacts for Disconnect****134B5270** **Alu.Box 750x550x380 Drivepro spare part**

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

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Product Detail | FC-302N132T5E21H2XGC3XXSXXXXAXBXXXXDX

Spare Parts

Image
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soon**134B5998** **24 pole jumper/2 connector jumper**Image
coming
soon**176F6769** **Thermal Grease - Pack of 5****134B7466** **Option A Ethernet Package**Image
coming
soon**134B6883** **VLT Progr. Contr. MCB 301, coated****176F4181** **Bsbr Crnt Sensor D1h/D3h - 300A LEM, HEX****130B1071** **6 Pole Connector, FC series, 10 pcs**6-pole spring cage connectors 10 pcs

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Spare Parts

**134B9413** **Airflow Sensor KLQ CO2 & Air Quality**

DUCT AIR QUALITY (VOC) AND CO2 SENSOR KLQ-CO2-MB

Maintenance-free duct sensor covering air quality (VOC 0...100 %), carbon dioxide (CO2 0...5000 ppm) and atmospheric pressure (hPa). The air quality is detected by a VOC sensor (mixed gas sensor for volatile organic substances) and include an automatic calibration. It determines the loading of the room air due to contaminated gases such as cigarette smoke, body perspiration, exhaled breathing air, solvent vapors, emissions etc. The air contamination can be selected into different sensitivity ranges as low, medium or high. The CO2 measurement is performed using an optical NDIR sensor (non-dispersive infra-red technology), and the detection range is calibrated for standard applications such as monitoring residential rooms and conference rooms. A microprocessor-controlled solution with factory sensor calibration, Modbus RTU connection in a resistant IP65 plastic housing with mounting flange, quick-locking screws and two M16 cable gland for cable connection. International SI units (default) can be changed to imperial (via Modbus).

VOC Sensor: Volatile Organic Compounds sensor (metal oxide) with automatic calibration

VOC measuring range: 0...100 % air quality; referred to calibrating gas

temperature dependence: ± 5 ppm pro $^{\circ}\text{C}$ or $\pm 0,5$ % of measured value pro

$^{\circ}\text{C}$ (whichever is higher) pressure dependence: ± 0.13 % per mm Hg

Medium: clean air and non-aggressive, non-combustible gases

Power: 24VAC/DC ($\pm 10\%$) 24DC <1,6W

Operation temperature: $-10...+60$ $^{\circ}\text{C}$ / $14...+140$ $^{\circ}\text{F}$

T2-IP65 plastic housing two M20 cable glands

Housing dimensions: 126 x 90 x 50 mm / 4.96 x 3.54 x 1.97 in

Image
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soon

176F8437 **spare,tool,pwr pca sig brd,vlt5122-5302**

VLT5122-5302, VLT6152-5352

Image
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176F8992 **Cable RST rectifier to inverter F frame**

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Services



130R1153 [🔗](#)

DrivePro ExWarr Work Shop PG06 42 Month

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.

Extended Warranty duration starts from the date of manufacture the product, like the standard warranty. The standard warranty is replaced by the extended warranty.



130R1156 [🔗](#)

DrivePro ExWarr Work Shop PG06 60 Month

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.

Extended Warranty duration starts from the date of manufacture the product, like the standard warranty. The standard warranty is replaced by the extended warranty.



130R1152 [🔗](#)

DrivePro ExWarr Work Shop PG06 36 Month

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.

Extended Warranty duration starts from the date of manufacture the product, like the standard warranty. The standard warranty is replaced by the extended warranty.



130R1154 [🔗](#)

DrivePro ExWarr Work Shop PG06 48 Month

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.

Extended Warranty duration starts from the date of manufacture the product, like the standard warranty. The standard warranty is replaced by the extended warranty.

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

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Services

**130R1155** **DrivePro® ExWarr Work Shop PG06 54 Month**

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.

Extended Warranty duration starts from the date of manufacture the product, like the standard warranty. The standard warranty is replaced by the extended warranty.

**130R1151** **DrivePro® ExWarr Work Shop PG06 30 Month**

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.

Extended Warranty duration starts from the date of manufacture the product, like the standard warranty. The standard warranty is replaced by the extended warranty.

**130R1150** **DrivePro® ExWarr Work Shop PG06 24 Month**

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.

Extended Warranty duration starts from the date of manufacture the product, like the standard warranty. The standard warranty is replaced by the extended warranty.

**130R1157** **DrivePro® ExWarr Work Shop PG06 66 Month**

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.

Extended Warranty duration starts from the date of manufacture the product, like the standard warranty. The standard warranty is replaced by the extended warranty.

**130R1158** **DrivePro® ExWarr Work Shop PG06 72 Month**

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.

Extended Warranty duration starts from the date of manufacture the product, like the standard warranty. The standard warranty is replaced by the extended warranty.

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Services

**130R1057** **DrivePro ExWarr Onsite PG06 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.

Extended Warranty duration starts from the date of manufacture the product, like the standard warranty. The standard warranty is replaced by the extended warranty.

**130R1056** **DrivePro ExWarr Onsite PG06 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.

Extended Warranty duration starts from the date of manufacture the product, like the standard warranty. The standard warranty is replaced by the extended warranty.

**130R1050** **DrivePro ExWarr Onsite PG06 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.

Extended Warranty duration starts from the date of manufacture the product, like the standard warranty. The standard warranty is replaced by the extended warranty.

**130R1058** **DrivePro ExWarr Onsite PG06 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.

Extended Warranty duration starts from the date of manufacture the product, like the standard warranty. The standard warranty is replaced by the extended warranty.

**130R1055** **DrivePro ExWarr Onsite PG06 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.

Extended Warranty duration starts from the date of manufacture the product, like the standard warranty. The standard warranty is replaced by the extended warranty.

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Services

**130R1053** **DrivePro ExWarr Onsite PG06 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.

Extended Warranty duration starts from the date of manufacture the product, like the standard warranty. The standard warranty is replaced by the extended warranty.

**130R1054** **DrivePro ExWarr Onsite PG06 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.

Extended Warranty duration starts from the date of manufacture the product, like the standard warranty. The standard warranty is replaced by the extended warranty.

**130R1052** **DrivePro ExWarr Onsite PG06 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.

Extended Warranty duration starts from the date of manufacture the product, like the standard warranty. The standard warranty is replaced by the extended warranty.

**130R1051** **DrivePro ExWarr Onsite PG06 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.

Extended Warranty duration starts from the date of manufacture the product, like the standard warranty. The standard warranty is replaced by the extended warranty.

**130R1325** **DriveProStart-UP ctrl. IFT test medium**

DrivePro Start-Up Control interface testing medium frame unit

**130R1322** **DrivePro Start-Up special applic. medium**

DrivePro Start-Up special applications medium frame unit

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Services

**130R1315** **DrivePro Start-Up 1 day on-demand medium**

DrivePro® Start-up gives the Customer a full range of checks and adjustments during commissioning of the drive, ensuring their system is tuned for optimal performance right from day one.

The following benefits can be gained:

- Installation is checked to ensure it complies to Danfoss guide lines.
- The AC drive is fine-tuned specific to the application, ensuring optimal performance.
- Maximum energy savings to the Customer.
- Extend the AC drive's lifespan.
- Report detailing findings.

Before DrivePro® Start-up can be implemented, the AC drive must be installed and

ready for operation. The entire system must be fully operational under normal operation conditions. Installation of the drive is not included in this package. Commissioning needs to take place during the standard working hours.

Each quantity trip includes 2 hours of travel. If travel time exceeds 2 hours, the additional travel time will be billed separately.

General Terms and Conditions of Delivery and Warranty apply.

**130R1314** **DrivePro Start-Up 1 day pre-order medium**

DrivePro® Start-up gives the Customer a full range of checks and adjustments during commissioning of the drive, ensuring their system is tuned for optimal performance right from day one.

The following benefits can be gained:

- Installation is checked to ensure it complies to Danfoss guide lines.
- The AC drive is fine-tuned specific to the application, ensuring optimal performance.
- Maximum energy savings to the Customer.
- Extend the AC drive's lifespan.
- Report detailing findings.

Before DrivePro® Start-up can be implemented, the AC drive must be installed and

ready for operation. The entire system must be fully operational under normal operation conditions. Installation of the drive is not included in this package. Commissioning needs to take place during the standard working hours.

Each quantity trip includes 2 hours of travel. If travel time exceeds 2 hours, the additional travel time will be billed separately.

General Terms and Conditions of Delivery and Warranty apply.

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Services

**130R1306** **DrivePro Start-Up unit on-demand medium**

DrivePro® Start-up gives the Customer a full range of checks and adjustments during commissioning of the drive, ensuring their system is tuned for optimal performance right from day one.

The following benefits can be gained:

- Installation is checked to ensure it complies to Danfoss guide lines.
- The AC drive is fine-tuned specific to the application, ensuring optimal performance.
- Maximum energy savings to the Customer.
- Extend the AC drive's lifespan.
- Report detailing findings.

Before DrivePro® Start-up can be implemented, the AC drive must be installed and

ready for operation. The entire system must be fully operational under normal operation conditions. Installation of the drive is not included in this package. Commissioning needs to take place during the standard working hours.

General Terms and Conditions of Delivery and Warranty apply.

**130R1305** **DrivePro Start-Up unit pre-order medium**

DrivePro® Start-up gives the Customer a full range of checks and adjustments during commissioning of the drive, ensuring their system is tuned for optimal performance right from day one.

The following benefits can be gained:

- Installation is checked to ensure it complies to Danfoss guide lines.
- The AC drive is fine-tuned specific to the application, ensuring optimal performance.
- Maximum energy savings to the Customer.
- Extend the AC drive's lifespan.
- Report detailing findings.

Before DrivePro® Start-up can be implemented, the AC drive must be installed and

ready for operation. The entire system must be fully operational under normal operation conditions. Installation of the drive is not included in this package. Commissioning needs to take place during the standard working hours.

General Terms and Conditions of Delivery and Warranty apply.

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

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Services

Image
coming
soon

130R1199

DrivePro Site Assessment

investments.

DrivePro® Site Assessment is designed by Danfoss Drives to assess and analyze the drives at your site for effective asset management with a view of their maintenance and their lifecycle conditions. This assessment helps you to maintain, plan and take investments to achieve the highest possible reliability and performance.

Our experts visit your site and collect the data on your drives. We evaluate the collected data and help you to have an overview of risk factors in combination of all the parameters visually inspected at site. We give you a report on key facts which would help your management to take decisions on maintenance, planning, renewals and on future investments.



130R1382

DrivePro Start-Up ½ day pre-order medi

DrivePro® Start-up gives the Customer a full range of checks and adjustments during commissioning of the drive, ensuring their system is tuned for optimal performance right from day one.

The following benefits can be gained:

- Installation is checked to ensure it complies to Danfoss guide lines.
- The AC drive is fine-tuned specific to the application, ensuring optimal performance.
- Maximum energy savings to the Customer.
- Extend the AC drive's lifespan.
- Report detailing findings.

Before DrivePro® Start-up can be implemented, the AC drive must be installed and

ready for operation. The entire system must be fully operational under normal operation conditions. Installation of the drive is not included in this package. Commissioning needs to take place during the standard working hours.

General Terms and Conditions of Delivery and Warranty apply.

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Services



130R1383

DrivePro Start-Up ½ day on-demand medi

DrivePro® Start-up gives the Customer a full range of checks and adjustments during commissioning of the drive, ensuring their system is tuned for optimal performance right from day one.

The following benefits can be gained:

- Installation is checked to ensure it complies to Danfoss guide lines.
- The AC drive is fine-tuned specific to the application, ensuring optimal performance.
- Maximum energy savings to the Customer.
- Extend the AC drive's lifespan.
- Report detailing findings.

Before DrivePro® Start-up can be implemented, the AC drive must be installed and

ready for operation. The entire system must be fully operational under normal operation conditions. Installation of the drive is not included in this package. Commissioning needs to take place during the standard working hours.

General Terms and Conditions of Delivery and Warranty apply.

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134H9911

FC-302N132T5E54H2XGR7XXSXXXXAXBXXXXDX

Frequency converter

FC-302N132T5E54H2XGR7XXSXXXXAXBXXXXDX

VLT® AutomationDrive FC-302

(N132) 132 KW / 200 HP,

Three phase, 380 - 500 VAC,(E54) IP54 / Type 12

RFI Filter

No brake chopper

Graphical Loc. Cont. Panel

Coated PCB 3C3 + Ruggedised, Fuse

Latest release std. SW.

Frame: D1H

No A Option, No B Option

No C1 option, No D option

Other options according to Model code

Model code: FC-302N132T5E54H2XGR7XXSXXXXAXBXXXXDX

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

Image
coming
soon

130R1348

DrivePro Remote Monitoring - Annual Fee

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