



**131B3212**

**FC-302P15KT5E55H1XGXXXXXXXA0BXCXXXXX**

Frequency converter  
 FC-302P15KT5E55H1XGXXXXXXXA0BXCXXXXX  
 VLT® AutomationDrive FC-302  
 (P15K) 15 KW / 20 HP, Three phase  
 380 - 500 VAC, IP55 / Type 12  
 (H1) RFI Class A1/B (C1)  
 No brake chopper  
 Graphical Loc. Cont. Panel  
 Not coated PCB, No Mains Option  
 Latest release std. SW.  
 Frame: B1  
 No C1 option, No D option  
 PROFIBUS DP MCA 101, No B Option  
 Other options according to Model code

**Model code:** FC-302P15KT5E55H1XGXXXXXXXA0BXCXXXXX

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

[View Efficiency Data](#)

**PRODUCT DETAILS**

<b>Gross weight</b>	22.39 kg	
<b>Net weight</b>	21.44 kg	
<b>Volume</b>	144.67 l	
<b>EAN</b>	5702427224445	
<b>VLT® AUTOMATIONDRIVE FC 300 SERIES</b>		
<b>Product View (Switch)</b>	GLBL	Global (Standard)
<b>Product Group</b>	FC-	VLT® AutomationDrive FC-
<b>Series</b>	302	302
<b>Power Rating</b>	P15K	(P15K) 15 KW / 20 HP
<b>Phase</b>	T	Three phase
<b>Mains Voltage</b>	5	380 - 500 VAC
<b>Enclosure</b>	E55	IP55 / Type 12
<b>RFI Filter</b>	H1	(H1) RFI Class A1/B (C1)
<b>Brake - Safe Stop</b>	X	No brake chopper
<b>LCP</b>	G	Graphical Loc. Cont. Panel
<b>Coating PCB</b>	X	Not coated PCB
<b>Mains Option</b>	X	No Mains Option
<b>Adaptation A</b>	X	Standard Cable Entries
<b>Adaptation B</b>	X	No adaptation
<b>Software Release</b>	SXXX	Latest release std. SW.
<b>Software Language Pack</b>	X	Standard Language Pack
<b>A Option</b>	A0	PROFIBUS DP MCA 101
<b>B Option</b>	BX	No B Option
<b>C0 Option MCO</b>	CX	No C0 option
<b>C1 Option</b>	X	No C1 option

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## Product Detail | FC-302P15KT5E55H1XGXXXXXXXA0BXCXXXXX

## PRODUCT DETAILS

<b>C Option Software</b>	XX	No software option
<b>D Option</b>	DX	No D option
<b>Frame Size</b>	B1	B1
<b>Typecode Part 1</b>		FC-302P15KT5E55H1XGX
<b>Typecode Part 2</b>		XXXXXXXXA0BXCXXXXX
<b>Product Catalog</b>	NO_VIEW	NO VIEW
<b>Power 160% (HO) [KW]</b>		15
<b>Power 110% (NO) [KW]</b>		18.5
<b>Height [mm]</b>		494,0
<b>Width w/ no C options [mm]</b>		243,0
<b>Depth [mm]</b>		261,0
<b>Depth with Option A/B [mm]</b>		261,0
<b>kVA</b>		22.2
<b>Power Loss NO [W]</b>		465
<b>Power Loss NO [W]</b>		465
<b>Power Loss HO [W]</b>		379
<b>Power Loss HO [W]</b>		379
<b>Continuous Current (NO) [A]</b>		37.5
<b>Intermittent Current (NO) [A]</b>		41.2
<b>Continuous Current (NO) [A]</b>		34
<b>Intermittent Current (NO) [A]</b>		37.4
<b>Continuous Current (HO) [A]</b>		32
<b>Intermittent Current (HO) [A]</b>		51.2
<b>Continuous Current (HO) [A]</b>		27
<b>Intermittent Current (HO) [A]</b>		43.2
<b>Calculated Gross Weight [kg]</b>		22.39
<b>Calculated Net Weight [kg]</b>		21.44
<b>Vendor</b>	ERR01	Cannot Determine Vendor
<b>Recommended Factory</b>	ERR01	Cannot Determine Vendor
<b>Modelcode01</b>		FC-302P15KT5E55H1XGX
<b>Modelcode02</b>		XXXXXXXXA0BXCXXXXX
<b>Recommended Plant</b>		ERR01

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

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

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**Accessories**


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**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.

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**130B3383** [🔗](#)**Back plate IP21/Type 1, IP55/Type 12, B1**

FC 300 back cover for the devices in IP21 / 55 Housing size B1

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**130B4598** [🔗](#)**Weather shield f. outdoor instl A4 to B2**

Weather shield for enclosure sizes A4, A5, B1, B2

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**130B7533** [🔗](#)**Mounting Kit C Option, B/C/D/E/F(not B3)**

MCF105 C Option, Mounting Kit A2 and A3

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

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

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**130B7145** [🔗](#)**VLT® SALT Controller MCO 360****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 MCB152 provides an intelligent, user-friendly solution to meet the IEC 61800-5-2 functional safety standard and helps to reduce cabling. MCB152 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 MCB152, PROFINET fieldbus option MCA120, and the control card of the VLT® AutomationDrive constitutes a PROFIsafe device.

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**Accessories**


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**130B5436** [🔗](#)**Side Fixture Mounting Kit**

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

To be used when retrofitting the following MCA options:

- MCA 120 Profinet
  - MCA 121 EtherNet
  - MCA 122 Modbus TCP
  - MCA 123 POWERLINK
  - MCA 124 EtherCAT
  - Product group: R1
- 

**130B5435** [🔗](#)**DIN Rail Mounting Kit****130B1234** [🔗](#)**VLT® Motion Control MCO 305, coated**

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

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

Contains:

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

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

130B7530 - Mounting kit for enclosures A2 and A3

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

130B1413 - Mounting kit for enclosure B3

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

130B7532 - Mounting kit for enclosure A5

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

Danfoss MCO options are not sold without prior advice.

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

Contact Danfoss for advice and prices.

Product group: R

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## Accessories



### 130B1227 [↗](#)

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

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

Resolver types:

Input voltage: 4..8 Vrms

Input frequency: 2.5..15 kHz

Number of resolver poles: 2 or 4



### 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



### 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.



### 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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**Accessories**


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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
- 

**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.

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**130B1170** [🔗](#)**LCP Panel Mounting Kit**

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

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**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** [🔗](#)

**1xMCB 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.



**130B1203** [🔗](#)

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

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



**130B1387** [🔗](#)

**5xMCB107 24VDC no coat w.out mount brack**



**130B1272** [🔗](#)

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

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

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



**130B1164** [🔗](#)

**VLT® Extended Relay Card MCB 113**

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



**130B1046** [🔗](#)

**Panel Through Mounting Kit, B1**

Push-through frame kit for FC size B1 Contains mounting frame, seal, Fastening material and assembly instructions.

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**Accessories**


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

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

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

Contains:

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

10 digital inputs

8 digital outputs

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

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

130B7530 - Mounting kit for enclosures A2 and A3

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

130B1413 - Mounting kit for enclosure B3

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

130B7532 - Mounting kit for enclosure A5

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

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

**130B1129** [🔗](#)**LCP Mounting Kit FC IP55/66, 8m**

The kit includes fasteners, 8m cable, gasket and a blind cover to ensure IP55/ 66 after the LCP has been mounted elsewhere. The 8m cable is open in one end and the connector block is included in the package. No LCP included.

**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

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

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

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

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Accessories



**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).



**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



**130B1155** [🔗](#)

**USB extension Cable, 350mm**

USB extension kit for FC 300 cable length: 350mm for the housing size: B2, C1 and C2 screw connection M 25

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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**

ATEX: II (2) G [Ex eb Gb] [Ex db Gb] / II (2) D [Ex tb Db]

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



**130B1081** [🔗](#)

**Mounting Brackets, B1**

Mounting brackets for enclosure size B1

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Accessories



**130B1078** [🔗](#)

**VLT® Control Panel LCP 102, graphical**

LCP 102 - graphic control unit for FC100 / 200/300, degree of protection IP66



**130B1077** [🔗](#)

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

LCP Blindcover IP66



**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



**130B1088** [🔗](#)

**LCP Blindcover, w/ Danfoss logo, IP20/21**



**175Z0929** [🔗](#)

**LCP Cable, 3m**

Cable for control panel (LCP), 3 meters

Works with the following LCP:

Alphanumeric control panel LCP3 - 175N0131

VLT® LCP 102 Graphic Display - 130B1107

VLT® LCP 101 Numeric Display - 130B1124

VLT® LCP 102 Graphic display IP66 - 130B1078

Product group: F1



**175U0009** [🔗](#)

**Mounting bracket Kit, 216 x 30 x 18mm**

Mounting angle for flatpack resistor 200W

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

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Accessories



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



**134B6487** [🔗](#)  
**Panel Through Mounting kit w/o Panel, B1**

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



**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

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

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## Accessories

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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

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



**134B7093** [🔗](#)

**VLT C-option Adapter MCF 107**



**130B0295** [🔗](#)

**sparepart/terminals accessory bag**

Image  
coming  
soon

**134B1985** [🔗](#)

**Accessory bag for smooth cable entry B1**

Image  
coming  
soon

**130B4847** [🔗](#)

**extension cable for lcp+communication**



**134B8492** [🔗](#)

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



**134B8493** [🔗](#)

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

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

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Accessories



**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



**134B7466** [🔗](#)  
Option A Ethernet Package

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**Accessories**

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**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 &amp; 1 x 0 -10 V cascading input

Output: 1 x 0 -10 V output temperature (corresponding to 0...+15 °C) &amp; 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:  $R_L > 50 \text{ k}\Omega$ 

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

Power: 24VAC/DC (± 10%) 24DC &lt;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**

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**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 & selection of VOC sensitivities (low/medium/high)

VOC measuring accuracy: typical  $\pm 20\%$  of final value (referred to calibrating gas)

CO2 Sensor: optical NDIR sensor (non-dispersive infra-red technology) including atmospheric pressure compensation (up to 1100 mbar) with manual or automatic calibration

CO2 measuring range: 0...5000 ppm

CO2 measuring accuracy: typical  $\pm 30$  ppm ( $\pm 3\%$  of measured value) & temperature dependence:  $\pm 5$  ppm pro  $^{\circ}\text{C}$  or  $\pm 0,5\%$  of measured value pro  $^{\circ}\text{C}$  (whichever is higher) & pressure dependence:  $\pm 0.13\%$  per mm Hg

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

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

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

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

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## Accessories



### 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  $0^{\circ}\text{C} \pm 0,3\text{ K}$

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:  $< 0.6\text{ mA}$

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

Connection type: 2-wire connection

Measuring tube: stainless steel, V4A (1.4571),  $\varnothing 6\text{ mm}$ , 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



### 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 ( $-35...+80^{\circ}\text{C}$ ), 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) /  $-35...+80^{\circ}\text{C}$  (temperature)

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

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

Deviation, temperature: typical  $\pm 0.4\text{ K}$  at  $+25^{\circ}\text{C} / \pm 77^{\circ}\text{F}$

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

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

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

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

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## Accessories

**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 (± 20%) / 15...36VDC - 24DC &lt;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

Image  
coming  
soon**134B9409****Airflow Sensor 8147 Temp&Humidity&7000Pa**

DUCT HUMIDITY-, TEMPERATURE- AND PRESSURE SENSORS ±7000PA-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 (Ø 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 &lt;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**

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

DUCT HUMIDITY-, TEMPERATURE- AND PRESSURE SENSORS ±500PA-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 (Ø 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**


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**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  $<1,2\text{ W}$

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

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**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 ( $\pm 10\%$ )  $<1,3\text{ W}$ ,

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

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

Load resistance:  $R_L > 15\text{ kOhm}$  (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**


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**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 ( $\pm 10\%$ )  $< 1,3\text{W}$ ,

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

Working resistance:  $R_a$  (ohms) = 25...450 Ohm (at I output)Load resistance:  $R_L > 15\text{ kOhm}$  (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 ( $\pm 10\%$ )  $< 1,3\text{W}$ ,

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

Working resistance:  $R_a$  (ohms) = 25...450 Ohm (at I output)Load resistance:  $R_L > 15\text{ kOhm}$  (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**


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**134B9402** **Pressure Sensor 7247T 2x7000Pa & PT1000**DUAL AIR PRESSURE SENSOR  $\pm 7000\text{Pa}$  &  $\pm 7000\text{Pa-MB}$ 

Dual maintenance-free pressure sensor with connection facility for external Pt1000 sensor ( $-50\dots+150^\circ\text{C}$ ). Microprocessor-controlled with Modbus RTU connection in a resistant IP65 plastic housing with quick-locking screws, connection nozzles for pressure hose ( $\varnothing 6\text{ mm}$ ) and M16 cable gland for cable connection. International SI units (default) can be switched to Imperial (via Modbus). Incl. connection set ASD-06 (2 m connecting hose, two pressure port nipples, screws).

Pressure range:  $\pm 7000\text{ Pa}$  and  $\pm 7000\text{ Pa}$ Accuracy: 7000 Pa/28 inWC: typical  $\pm 105\text{ Pa}$  at  $+25^\circ\text{C}$  /  $\pm 0.12\text{ inWC}$  at  $+77^\circ\text{F}$ Linearity:  $< \pm 1\%$  of final value & Temperature drift:  $\pm 0.1\%$  per  $^\circ\text{C}$  #  
 $^\circ\text{F}$ Zero point offset:  $\pm 10\%$  of measuring rangeAbove- # below-pressure: max.  $\pm 50\text{ kPa}$  /  $\pm 200\text{ inWC}$ Power: 24VAC ( $\pm 20\%$ )  $< 0,2\text{W}$  / 15...36VDCOperation temperature:  $-30\dots+70^\circ\text{C}$  /  $-22\dots+158^\circ\text{F}$ Media temperature  $-20\dots+50^\circ\text{C}$  /  $-4\dots+122^\circ\text{F}$ 

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

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

**134B9401** **Pressure Sensor 7249T 500/7000Pa & PT1000**DUAL AIR PRESSURE SENSOR  $\pm 500\text{Pa}$  &  $\pm 7000\text{Pa-MB}$ 

Dual maintenance-free pressure sensor with connection facility for external Pt1000 sensor ( $-50\dots+150^\circ\text{C}$ ). Microprocessor-controlled with Modbus RTU connection in a resistant IP65 plastic housing with quick-locking screws, connection nozzles for pressure hose ( $\varnothing 6\text{ mm}$ ) and M16 cable gland for cable connection. International SI units (default) can be switched to Imperial (via Modbus). Incl. connection set ASD-06 (2 m connecting hose, two pressure port nipples, screws).

Pressure range:  $\pm 500\text{ Pa}$  and  $\pm 7000\text{ Pa}$ Accuracy: 500 Pa/2.0 inWC: typical  $\pm 13\text{ Pa}$  at  $+25^\circ\text{C}$  /  $\pm 0.05\text{ inWC}$  at  $+77^\circ\text{F}$ Accuracy: 7000 Pa/28 inWC: typical  $\pm 105\text{ Pa}$  at  $+25^\circ\text{C}$  /  $\pm 0.12\text{ inWC}$  at  $+77^\circ\text{F}$ Linearity:  $< \pm 1\%$  of final value & Temperature drift:  $\pm 0.1\%$  per  $^\circ\text{C}$  #  
 $^\circ\text{F}$ Zero point offset:  $\pm 10\%$  of measuring rangeAbove- # below-pressure: max.  $\pm 50\text{ kPa}$  /  $\pm 200\text{ inWC}$ Power: 24VAC ( $\pm 20\%$ )  $< 0,2\text{W}$  / 15...36VDCOperation temperature:  $-30\dots+70^\circ\text{C}$  /  $-22\dots+158^\circ\text{F}$ Media temperature  $-20\dots+50^\circ\text{C}$  /  $-4\dots+122^\circ\text{F}$ 

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

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

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

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## Accessories



### 134B9400 [🔗](#)

#### Pressure Sensor 7245T 2x500Pa & PT1000

DUAL AIR PRESSURE SENSOR  $\pm 500\text{Pa}$  &  $\pm 500\text{Pa-MB}$

Dual maintenance-free pressure sensor with connection facility for external Pt1000 sensor ( $-50\dots+150^\circ\text{C}$ ). Microprocessor-controlled with Modbus RTU connection in a resistant IP65 plastic housing with quick-locking screws, connection nozzles for pressure hose ( $\varnothing 6\text{ mm}$ ) and M16 cable gland for cable connection. International SI units (default) can be switched to Imperial (via Modbus). Incl. connection set ASD-06 (2 m connecting hose, two pressure port nipples, screws).

Pressure range:  $\pm 500\text{ Pa}$  and  $\pm 500\text{ Pa}$

Accuracy:  $500\text{ Pa}/2.0\text{ inWC}$ : typical  $\pm 13\text{ Pa}$  at  $+25^\circ\text{C}$  /  $\pm 0.05\text{ inWC}$  at  $+77^\circ\text{F}$

Linearity:  $< \pm 1\%$  of final value & 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:  $24\text{VAC}$  ( $\pm 20\%$ )  $< 0,2\text{W}$  /  $15\dots 36\text{VDC}$

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

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

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

## Spare Parts



### 612Z1182 [🔗](#)

fuse,4a,3 x 32mm,super fast



### 130B3377 [🔗](#)

RFI unit 200/500V adv. A1/B for frame B1

RFI unit 200/500V adv. A1/B for frame B1



### 130B7530 [🔗](#)

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

MCF 105 assembly kit A2 / A3 for C option

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Spare Parts



x10

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



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



**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.



**130B0264** [🔗](#)  
**Cradle for A5,B1,B2,C1,C2,D2h enclosure**  
 cradle for LCP cradle for a5, b1,b2,c1,



**130B0295** [🔗](#)  
**sparepart/terminals accessory bag**



**130B1077** [🔗](#)  
**Blindcover, w/ Danfoss logo, IP55/66**  
 LCP Blindcover IP66



**130B1069** [🔗](#)  
**Multiple relay 1 plug**  
 spare, 3 pole connector, relay 1, fc300



**130B1068** [🔗](#)  
**Multiple relay 2 plug**  
 spare, 3 pole connector, relay 2, fc300



**130B1061** [🔗](#)  
**DCcoil 18,5kW T4/6/7 for frame B1 and B2**

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Spare Parts



**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



**130B1842** [🔗](#)

**Power Card 18kW 500V**



**134B0048** [🔗](#)

**MCO301 B-Option, coated**



**134B1726** [🔗](#)

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

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

NOTE:

The MKII control cards are backward compatible to the old cards but will

Image coming soon

**134B1985** [🔗](#)

**Accessory bag for smooth cable entry B1**



**134B5920** [🔗](#)

**cable jumper 20 pole for frame size B1**



**134B7130** [🔗](#)

**Gasket for cable entry, frame B1 and B2**



**134B7132** [🔗](#)

**External fan for frame size B1**

Note: Old material number 130B3407



**134B7134** [🔗](#)

**Coated internal fan frame size B1 & B2**

Note: Old material number 130B3441

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## Spare Parts



**134B7135** [🔗](#)  
Busbar insulation foil for frame size B1



**134B7173** [🔗](#)  
Busbar assembly for frame size B1



**134B7172** [🔗](#)  
Gasket for local control panel IP55/66



**134B7194** [🔗](#)  
3-pole Terminal Block



**134B7178** [🔗](#)  
24 pole 3 connector jumper for C option  
24 pole 3 connector jumper for C option

Image  
coming  
soon

**134B7057** [🔗](#)  
Screws 12 pcs 640f0774 cover B1 B2 C1 C2



**134B5475** [🔗](#)  
cable jumper 44 pole for frame size B1  
cable jumper 44 pole for frame size B1

Image  
coming  
soon

**134B5998** [🔗](#)  
24 pole jumper/2 connector jumper



**134B7346** [🔗](#)  
Plastic front cover assembly B1



**134B7466** [🔗](#)  
Option A Ethernet Package

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## Spare Parts

Image  
coming  
soon**134B6883** [🔗](#)**VLT Progr. Contr. MCB 301, coated****130B1071** [🔗](#)**6 Pole Connector, FC series, 10 pcs**

6-pole spring cage connectors 10 pcs

**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 & selection of VOC sensitivities (low/medium/high)

VOC measuring accuracy: typical  $\pm 20$  % of final value (referred to calibrating gas)

CO2 Sensor: optical NDIR sensor (non-dispersive infra-red technology) including atmospheric pressure compensation (up to 1100 mbar) with manual or automatic calibration

CO2 measuring range: 0...5000 ppm

CO2 measuring accuracy: typical  $\pm 30$  ppm ( $\pm 3$  % of measured value) & temperature dependence:  $\pm 5$  ppm pro  $^{\circ}\text{C}$  or  $\pm 0,5$  % of measured value pro  $^{\circ}\text{C}$  (whichever is higher) & pressure dependence:  $\pm 0.13$  % 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

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

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Services



**131B1177** [🔗](#)

**FC-302P15KT5E55H1BGXXXXXXXAXBXCXXXXDX**

FC-302P15KT5E55H1BGXXXXXXXAXBXCXXXXDX

Frequency converter  
 FC-302P15KT5E55H1BGXXXXXXXAXBXCXXXXDX  
 VLT® AutomationDrive FC-302  
 (P15K) 15 KW / 20 HP, Three phase  
 380 - 500 VAC, IP55 / Type 12  
 (H1) RFI Class A1/B (C1)  
 Brake chopper  
 Graphical Loc. Cont. Panel  
 Not coated PCB, No Mains Option  
 Latest release std. SW.  
 Frame: B1  
 No C1 option, No D option  
 No A Option, No B Option  
 Other options according to Model code

**Model code:** FC-302P15KT5E55H1BGXXXXXXXAXBXCXXXXDX

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



**130R1131** [🔗](#)

**DrivePro ExWarr Work Shop PG04 30 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.



**130R1134** [🔗](#)

**DrivePro ExWarr Work Shop PG04 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.



**130R1135** [🔗](#)

**DrivePro ExWarr Work Shop PG04 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.

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Services



**130R1137** [🔗](#)

**DrivePro ExWarr Work Shop PG04 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.



**130R1138** [🔗](#)

**DrivePro ExWarr Work Shop PG04 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.



**130R1136** [🔗](#)

**DrivePro ExWarr Work Shop PG04 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.



**130R1130** [🔗](#)

**DrivePro ExWarr Work Shop PG04 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.



**130R1132** [🔗](#)

**DrivePro ExWarr Work Shop PG04 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.



**130R1133** [🔗](#)

**DrivePro ExWarr Work Shop PG04 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.

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Services

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**130R1034** [🔗](#)

**DrivePro ExWarr Onsite PG04 48 Months**

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

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

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**130R1031** [🔗](#)

**DrivePro ExWarr Onsite PG04 30 Months**

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

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

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**130R1032** [🔗](#)

**DrivePro ExWarr Onsite PG04 36 Months**

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

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

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**130R1035** [🔗](#)

**DrivePro ExWarr Onsite PG04 54 Months**

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

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

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**130R1033** [🔗](#)

**DrivePro ExWarr Onsite PG04 42 Months**

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

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

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**130R1030** [🔗](#)

**DrivePro ExWarr Onsite PG04 24 Months**

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

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

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Services



**130R1038** [🔗](#)

**DrivePro ExWarr Onsite PG04 72 Months**

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

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



**130R1036** [🔗](#)

**DrivePro ExWarr Onsite PG04 60 Months**

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

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



**130R1037** [🔗](#)

**DrivePro ExWarr Onsite PG04 66 Months**

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

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



**130R1303** [🔗](#)

**DrivePro Start-Up unit pre-order small**

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.



**130R1324** [🔗](#)

**DrivePro Start-Up ctrl. IFT test small**

DrivePro Start-Up Control interface testing small frame unit

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**Services**

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**130R1321** [🔗](#)**DrivePro Start-Up special applic. small**

DrivePro Start-Up special applications small frame unit

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

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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**130R1312** [🔗](#)**DrivePro Start-Up 1 Day Pre-order small**

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**

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**130R1304** **DrivePro Start-Up unit on-demand small**

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.

**130R1380** **DrivePro Start-Up ½ day pre-order small**

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**

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**130R1381** **DrivePro Start-up ½ day on-demand small**

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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Image  
coming  
soon

**130R1348** **DrivePro Remote Monitoring - Annual Fee**

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