



**131B1519**

**FC-301P18KT4E55H1BGXXXXXXXAXBXXXXDX**

Frequency converter  
 FC-301P18KT4E55H1BGXXXXXXXAXBXXXXDX  
 VLT® AutomationDrive FC-301  
 (P18K) 18.5 KW / 25 HP,  
 Three phase, 380 - 480 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: B2  
 No A Option, No B Option  
 No C1 option, No D option

Other options according to Model code

**Model code:** FC-301P18KT4E55H1BGXXXXXXXAXBXXXXDX

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>		32.1 Kilogram
<b>Net weight</b>		28.54 Kilogram
<b>Volume</b>		105.71 Liter
<b>EAN</b>		5702427162105
<b>Product View (Switch)</b>	GLBL	Global (Standard)
<b>Product Group</b>	FC-	VLT® AutomationDrive FC-
<b>Series</b>	301	301
<b>Power Rating</b>	P18K	(P18K) 18.5 KW / 25 HP
<b>Phase</b>	T	Three phase
<b>Mains Voltage</b>	4	380 - 480 VAC
<b>Enclosure</b>	E55	IP55 / Type 12
<b>RFI Filter</b>	H1	(H1) RFI Class A1/B (C1)
<b>Brake - Safe Stop</b>	B	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>	AX	No A Option
<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-301P18KT4E55H1BGXXXXXXXAXBXCXXXXDX

## PRODUCT DETAILS

<b>C Option Software</b>	XX	No software option
<b>D Option</b>	DX	No D option
<b>Frame Size</b>	B2	B2
<b>Typecode Part 1</b>		FC-301P18KT4E55H1BGX
<b>Typecode Part 2</b>		XXXXXXXXAXBXCXXXXDX
<b>Product Catalog</b>	NO_VIEW	NO VIEW
<b>Power 160% (HO) [KW]</b>	18.5	18.5
<b>Power 110% (NO) [KW]</b>	22	22
<b>Height [mm]</b>	664,0	664,0
<b>Width w/ no C options [mm]</b>	243,0	243,0
<b>Depth [mm]</b>	261,0	261,0
<b>Depth with Option A/B [mm]</b>	261,0	261,0
<b>kVA</b>	26	26
<b>Power Loss NO [W]</b>	525	525
<b>Power Loss NO [W]</b>	525	525
<b>Power Loss HO [W]</b>	444	444
<b>Power Loss HO [W]</b>	444	444
<b>Continuous Current (NO) [A]</b>	44	44
<b>Intermittent Current (NO) [A]</b>	48.4	48.4
<b>Continuous Current (NO) [A]</b>	40	40
<b>Intermittent Current (NO) [A]</b>	44	44
<b>Continuous Current (HO) [A]</b>	37.5	37.5
<b>Intermittent Current (HO) [A]</b>	60	60
<b>Continuous Current (HO) [A]</b>	34	34
<b>Intermittent Current (HO) [A]</b>	54.4	54.4
<b>Calculated Gross Weight [kg]</b>		32.1
<b>Calculated Net Weight [kg]</b>		28.54
<b>ECCN EU</b>	Y901	Y901
<b>ECCN US</b>	3A999.a	3A999.a
<b>Vendor</b>	ERR01	Cannot Determine Vendor
<b>Recommended Factory</b>	ERR01	Cannot Determine Vendor
<b>Modelcode01</b>		FC-301P18KT4E55H1BGX
<b>Modelcode02</b>		XXXXXXXXAXBXCXXXXDX
<b>Recommended Plant</b>	ERR01	ERR01

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

## Accessories



**130B0295** [🔗](#)

sparepart/terminals accessory bag

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Accessories



**130B1047** [🔗](#)

**Panel Through Mounting Kit, B2**

Push-through frame kit for FC size B2. Contains mounting frame, seal, Fastening material and assembly instructions.



**130B1070** [🔗](#)

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

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



**130B1071** [🔗](#)

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

6-pole spring cage connectors 10 pcs



**130B1077** [🔗](#)

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

LCP Blindcover IP66



**130B1078** [🔗](#)

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

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



**130B1082** [🔗](#)

**Mounting Brackets, B2**

Mounting brackets for enclosure size B2



**130B1088** [🔗](#)

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



**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.



**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.

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

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## Accessories



### 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



### 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.



### 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



### 130B1113 [↗](#)

#### LCP Mounting Kit w/ graphical LCP102, 3m

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



### 130B1114 [↗](#)

#### LCP Mounting Kit w/ numerical LCP101, 3m

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



### 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.



### 130B1117 [↗](#)

#### LCP Mounting Kit, w/ no LCP

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

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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



**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.



**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



**130B1127** [🔗](#)  
**VLT® Resolver Input MCB 103, uncoated**  
 Enables connection of a resolver to provide speed feedback from the motor. Spring loaded connection.



**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.

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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

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**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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**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.

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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



**130B1156** [🔗](#)

**USB extension Cable, 650mm**

USB extension kit for FC 300 cable length: 650mm for the housing size: B2, C1 and C2 screw connection M 25



**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.



**130B1170** [🔗](#)

**LCP Panel Mounting Kit**

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



**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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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



**130B1202**

**VLT® DeviceNet MCA 104, coated**

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



**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.



**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.



**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.



**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



**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



**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



**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



**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



**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)

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Danfoss can offer help with programming / setting up MCO options. Contact Danfoss for advice and prices.

Product group: R



**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.



**130B1266** [🔗](#)

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

VLT® MCB 115 programmable I / O, coated

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Accessories



**130B3280** [🔗](#)

**VLT® Safe option MCB 150, coated**

Safety modules enable machines to interact intelligently with operators to increase safety, reduce system costs, improve flexibility and increase productivity.

VLT® MCB 15x Safe options provide an intelligent, user-friendly solution to meet the IEC 61800-5-2 functional safety standard and helps to reduce cabling.

The new safety module is certified according to ISO 13849-1 PL d Category 3 and SIL 2 according to IEC 61508.

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



**130B3397** [🔗](#)

**Back plate IP21/Type 1, IP55/Type 12, B2**

FC 300 back cover for the devices in IP21 / 55 Housing size B2



**130B4598** [🔗](#)

**Weather shield f. outdoor instl A4 to B2**

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

Image coming soon

**130B4847** [🔗](#)

**extension cable for lcp+communication**



**130B5435** [🔗](#)

**DIN Rail Mounting Kit**



**130B5436** [🔗](#)

**Side Fixture Mounting Kit**

Side Fixture Mounting Kit for enclosure size A5 / B1 / B2 / C1 / C2 To be used when retrofitting the following MCA options:

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

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Accessories



**130B7145** [🔗](#)  
**VLT® SALT Controller MCO 360**



**130B7533** [🔗](#)  
**Mounting Kit C Option, B/C/D/E/F(not B3)**  
 MCF105 C Option, Mounting Kit A2 and A3



**130B7635** [🔗](#)  
**VLT® Lift Controller MCO 361**  
 VLT® Motion Control MCO 305 with special software for lift application



**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.



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

Image coming soon

**175U0009** [🔗](#)  
**Mounting bracket Kit, 216 x 30 x 18mm**  
 Mounting angle for flatpack resistor 200W



**130B1385** [🔗](#)  
**VLT® Profibus DP V1 MCA101, unctd 5pcs**



**130B1386** [🔗](#)  
**VLT® Profibus DP V1 MCA 101, ctd, 5pcs**



**130B1387** [🔗](#)  
**5xMCB107 24VDC no coat w.out mount brack**

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## Accessories

Image  
coming  
soon**134B1986** [🔗](#)**Accessory bag for smooth cable entry B2**

Accessory bag for smooth cable entry B2

Image  
coming  
soon**134B1992** [🔗](#)**Control Terminals w/ screw connections****134B5223** [🔗](#)**Remote LCP unit, 3m**

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

Image  
coming  
soon**134B5225** [🔗](#)**Remote LCP unit, 10m**

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

**134B6488** [🔗](#)**Panel Through Mounting kit w/o Panel, B2****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**134B6883** [🔗](#)**VLT Progr. Contr. MCB 301, coated****134B8814** [🔗](#)**VLT® PROFINET MCA120 coated 5pcs**

**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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**175Z0929** [🔗](#)

**LCP Cable, 3m**

Cable for control panel (LCP), 3 meters Works with the following LCP:

Alphanumeric control panel LCP3 - 175N0131

VLT® LCP 102 Graphic Display - 130B1107

VLT® LCP 101 Numeric Display - 130B1124

VLT® LCP 102 Graphic display IP66 - 130B1078

Product group: F1

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