131B4729 ↗

FC-302P22KT5P55H1XGXXXXSXXXXAXBXCXXXXDX

Frequency converter

FC-302P22KT5P55H1XGXXXXSXXXXAXBXCXXXXDX

VLT® AutomationDrive FC-302

(P22K) 22 KW / 30 HP, Three phase

380 - 500 VAC, IP55 / Type12 Backplate

(H1) RFI Class A1/B (C1)

No brake chopper

Graphical Loc. Cont. Panel

Not coated PCB, No Mains Option

Latest release std. SW.

No A Option, No B Option

No C1 option, No D option

Frame: B2

Other options according to Model code

Model code: FC-302P22KT5P55H1XGXXXXSXXXXAXBXCXXXXDX

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		31.47 kg
Net weight		30.52 kg
Volume		144.67 l
EAN		5702427315372
Sales restriction control		
Matr grp for sales restriction	0001	No grouping
VLT® AUTOMATIONDRIVE FC 300 SERIES		
Product View (Switch)	GLBL	Global (Standard)
Product Group	FC-	VLT® AutomationDrive FC-
Series	302	302
Power Rating	P22K	(P22K) 22 KW / 30 HP
Phase	T	Three phase
Mains Voltage	5	380 - 500 VAC
Enclosure	P55	IP55 / Type12 Backplate
RFI Filter	H1	(H1) RFI Class A1/B (C1)
Brake - Safe Stop	X	No brake chopper
LCP	G	Graphical Loc. Cont. Panel
Coating PCB	X	Not coated PCB
Mains Option	X	No Mains Option
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
A Option	AX	No A Option
B Option	BX	No B Option

PRODUCT DETAILS

C0 Option MCO	CX	No C0 option
C1 Option	X	No C1 option
C Option Software	XX	No software option
D Option	DX	No D option
Frame Size	B2	B2
Typecode Part 1		FC-302P22KT5P55H1XGX
Typecode Part 2		XXXSXXXXAXBXCXXXXDX
Product Catalog	NO_VIEW	NO VIEW
Power 160% (HO) [KW]		22
Power 110% (NO) [KW]		30
Height [mm]		650,0
Width w/ no C options [mm]		242,0
Depth [mm]		260,0
Depth with Option A/B [mm]		260,0
kVA		30.5
Power Loss NO [W]		739
Power Loss NO [W]		739
Power Loss HO [W]		547
Power Loss HO [W]		547
Continuous Current (NO) [A]		61
Intermittent Current (NO) [A]		67.1
Continuous Current (NO) [A]		52
Intermittent Current (NO) [A]		57.2
Continuous Current (HO) [A]		44
Intermittent Current (HO) [A]		70.4
Continuous Current (HO) [A]		40
Intermittent Current (HO) [A]		64
Calculated Gross Weight [kg]		31
Calculated Net Weight [kg]		30.7
Material Gross Weight		31.47
Material Net Weight		30.52
Vendor	ERR01	Cannot Determine Vendor
Modelcode01		FC-302P22KT5P55H1XGX
Modelcode02		XXXSXXXXAXBXCXXXXDX

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 ⧉

ENGINEERING **TOMORROW**

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.

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

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

130B7145 ⧉
VLT® SALT Controller MCO 360

130B6443 ⧉
VLT® Safety Option MCB 140
Extends the Safe Torque Off feature of VLT® drives with additional safety functions: Safe Stop 1 (SS1), Safely Limited Speed (SLS), Safe Maximum Speed (SMS) and Safe Speed Monitor (SSM).

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

ENGINEERING
TOMORROW

Danfoss

Accessories

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.

130B5646 ⧉

VLT® EtherCAT MCA 124, coated

MCA 124 Ethercat option painted The VLT® EtherCat MCA 124 option enables Connection to EtherCat-based networks via the EtherCat protocol.

The option allows an EtherCat connection with full Speed and a connection to the frequency converter with a time interval of 4 ms in both Directions. This enables the MCA124 to be used in Networks from low-power applications to Servo applications.

-EoE EtherNet over EtherCat support

-HTTP (Hypertext Transfer Protocol) for diagnosis via integrated web server

-SMTP (Single Mail Transfer Protocol) for email notification

-TCP / IP for easy access to frequency converters Configuration data via MCT 10

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

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

Accessories

130B1235 ⧉

VLT® PROFINET MCA 120, coated

MCA 120 PROFINET interface

With reinforced coating (class 3C3 / IEC 60721-3-3)

-Supports operation on PROFINET network with extensive
characteristics

-DCP support for easy setting u. Communication parameters via the PLC

-on Board web-Page with Drive Status

-parameterization with the MCT10 software

- 2-port version, reduced external hardware

130B1234 ⧉

VLT® Motion Control MCO 305, coated

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

- Adds additional functionality and flexibility as it is a freely programmable module

- Optimized for all types of positioning and synchronization applications

- Make your own program specially adapted to your application

Contains:

- synchronization (electronic shaft), positioning and electronic cam control

- 2 inputs support both stepwise and absolute encoders

- 1 encoder output (virtual master function)

10 digital inputs

- 8 digital outputs

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

- PC software for programming and commissioning

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

130B7530 - Mounting kit for enclosures A2 and A3

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

130B1413 - Mounting kit for enclosure B3

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

130B7532 - Mounting kit for enclosure A5

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

Danfoss MCO options are not sold without prior advice.

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

Contact Danfoss for advice and prices.

Product group: R

130B1245 ⧉

VLT® PROFIBUS Converter MCA 113, ctd

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

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

- the system Can be expanded without costly changes to the PLC program

- Flexible investment as it is easy to remove and replace option when upgrading
to another fieldbus

Product group: R1

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

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

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.

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

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.

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

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

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

**ENGINEERING
TOMORROW**

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.

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 ⬀
5xMCB107 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 ⬀

ENGINEERING
TOMORROW

Accessories

130B1272 ⧉

VLT® Sensor Input Card MCB 114, coated

MCB 114 - PT100 / PT1000 option

For FC100-FC200 and FC302 (painted version)

Enables the evaluation of up to 3 PT 100 or 3 PT 1000 sensors

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

130B1296 ⧉

VLT® Modbus TCP MCA 122, coated

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

130B1164 ⧉

VLT® Extended Relay Card MCB 113

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

130B1006 ⧉

VLT® Motion Ctrl Tool MCT 10>100 lic.

An interactive tool for quick and easy online/offline configuration of a VLT® drive or soft starter using a PC. Configure communication networks and back up relevant parameter settings. Control and configure systems simultaneously and monitor entire system more effectively for faster monitoring, diagnosis, troubleshooting (alarms/warnings) and better preventive maintenance.

130B1005 ⧉

VLT® Motion Ctrl Tool MCT 10,100 lic.

An interactive tool for quick and easy online/offline configuration of a VLT® drive or soft starter using a PC. Configure communication networks and back up relevant parameter settings. Control and configure systems simultaneously and monitor entire system more effectively for faster monitoring, diagnosis, troubleshooting (alarms/warnings) and better preventive maintenance.

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

Accessories

130B1004 ↗

VLT® Motion Ctrl Tool MCT 10,50 lic.

An interactive tool for quick and easy online/offline configuration of a VLT® drive or soft starter using a PC. Configure communication networks and back up relevant parameter settings. Control and configure systems simultaneously and monitor entire system more effectively for faster monitoring, diagnosis, troubleshooting (alarms/warnings) and better preventive maintenance.

130B1003 ↗

VLT® Motion Ctrl Tool MCT 10,25 lic.

An interactive tool for quick and easy online/offline configuration of a VLT® drive or soft starter using a PC. Configure communication networks and back up relevant parameter settings. Control and configure systems simultaneously and monitor entire system more effectively for faster monitoring, diagnosis, troubleshooting (alarms/warnings) and better preventive maintenance.

130B1002 ↗

VLT® Motion Ctrl Tool MCT 10,10 lic.

An interactive tool for quick and easy online/offline configuration of a VLT® drive or soft starter using a PC. Configure communication networks and back up relevant parameter settings. Control and configure systems simultaneously and monitor entire system more effectively for faster monitoring, diagnosis, troubleshooting (alarms/warnings) and better preventive maintenance.

130B1001 ↗

VLT® Motion Ctrl Tool MCT 10,5 lic.

An interactive tool for quick and easy online/offline configuration of a VLT® drive or soft starter using a PC. Configure communication networks and back up relevant parameter settings. Control and configure systems simultaneously and monitor entire system more effectively for faster monitoring, diagnosis, troubleshooting (alarms/warnings) and better preventive maintenance.

130B1000 ↗

VLT® Motion Ctrl Tool MCT 10,1 lic.

An interactive tool for quick and easy online/offline configuration of a VLT® drive or soft starter using a PC. Configure communication networks and back up relevant parameter settings. Control and configure systems simultaneously and monitor entire system more effectively for faster monitoring, diagnosis, troubleshooting (alarms/warnings) and better preventive maintenance.

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

Accessories

130B1047 �

Panel Through Mounting Kit, B2

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

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

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.

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

Accessories

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.

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).

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.

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

Accessories

130B1113 ↗

lcp panel kit/fc300 fg-lcp panel kit

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

130B1110 ↗

VLT® Relay Option MCB 105, uncoated

Relay extension for FC 100 and FC 300. Extension with 3 additional load relays (changeover contacts), easy to retrofit thanks to modular technology.
Max. Load 240V AC (resistive): 2 A
Max. Load 240V AC (Cos Phi 0.4): 0.2 A
Max. Load 24V DC (ohmic): 1 A
Max. Load 24V DC (inductive): 0.1 A

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

130B1153 ↗

VLT® Position Controller MCO351, unctd

Extends the functional characteristics of the frequency converter in
positioning applications
- Direct positioning via fieldbus, relative positioning, absolute
positioning and touch probe positioning
- End stop handling (software and hardware)
- Mechanical brake handling (programmable hold delay)
Error handling
- Jog speed / manual operation
- None for programming, as it is pre-programmed
Remember to order the Mounting kit if the above MCO option is required retrofitted.
130B7530 - Mounting kit for enclosures A2 and A3
130B7531 - Mounting kit for MCO Option, together with MCB 113, in enclosures A2 and A3
130B1413 - Mounting kit for enclosure B3
130B1414 - Mounting kit for MCO Option, together with MCB 113, in enclosure B3
130B7532 - Mounting kit for enclosure A5
130B7533 - Mounting kit for all enclosures B, C, D, E and F (B3 excepted)
Danfoss MCO options are not sold without prior advice. Danfoss can offer help with
programming / setting up MCO options. Contact Danfoss for advice and prices.
Product group: R

Accessories

130B1152 ⧉
VLT® Synchronizing Contr. MCO350,unctd
Expands the functional properties of the VLT® AutomationDrive in synchronizing applications, and replaces traditional mechanical solutions. Speed synchronizing. Position (angle) synchronizing with or without marker correction. Online adjustable gear ratio. Online adjustable position (angle) offset. Encoder output with virtual master function for synchronization of multiple followers. Control via I/Os or fieldbus. Home function. Configuration as well as read-out of status and data via the Local Control Panel of the drive.

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

130B1082 ⧉
Mounting Brackets, B2
Mounting brackets for enclosure size B2

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

130B1071 ⧉
6 Pole Connector, FC series,10 pcs
6-pole spring cage connectors 10 pcs

130B1070 ⧉
RS485 plug, FC series,10 pcs
10pcs RS485 connectors for FC-series.
Product group: R

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

ENGINEERING
TOMORROW

Accessories

130B1108 ↗
VLT® 24V DC Supply MCB 107, uncoated
Connect an external DC supply to keep the control section and any installed option alive during power failure. Enables full operation of the LCP (including the parameter setting) and all installed options without connection to mains.

130B1107 ↗
VLT® Control Panel LCP 102
Graphic operating unit LCP102 Illuminated graphic display with plain text. Supports all languages and characters. Quick menu for brief commissiohing.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

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

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

175U0009 ↗
Mounting bracket Kit, 216 x 30 x 18mm

Mounting angle for flatpack resistor 200W

175N2584 ↗
VLT® EtherNet/IP Modbus TCP gateway

134B6488 ↗
Panel Through Mounting kit w/o Panel, B2

134B6302 ↗
VLT MCT 10 Software Customizer, 1 key

the commissioning experience of the VLT® to best fit your needs. It is a strong tool that enables you to quickly create your setup and test it first to MCT 10 using the simulator before uploading it to a real drive. local Danfoss Drives representative to order the required license(s).
Customize your commissioning experience
As the name suggests, VLT® Software Customizer allows you to customize
Note that the Advanced MCT 10 license is needed, please contact the

134B5225 ↗
Remote LCP unit, 10m

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

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

Accessories

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

134B1992 ↗
Control Terminals w/ screw connections

130B6447 ↗
VLT® Safety Option MCB 141

Extends the Safe Torque Off feature of VLT® drives with additional safety functions: Safe Stop 1 (SS1), Safely Limited Speed (SLS), Safe Maximum Speed (SMS) and Safe Speed Monitor (SSM).

130B1266 ↗
VLT MCB 115 Programmable I/O, coated

VLT® MCB 115 programmable I / O, coated

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

ENGINEERING
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Accessories

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 ↗

Accessory bag with control card plugs

134B1986 ↗

Accessory bag for smooth cable entry B2

Accessory bag for smooth cable entry B2

130B4847 ↗

extension cable for lcp+communication

134B8814 ↗

VLT® PROFINET MCA120 coated 5pcs

134B8492 ↗

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

134B8493 ↗

CBM 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

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

Accessories

134B8496 ↗
Cable assy 10m, straight socket connetc.

Image coming soon

134B8497 ↗
Cable assy, M12 female connec.10m screen

Spare Parts

130B3462 ↗
Cable entry B2 IP66 coated

130B7530 ↗
Mounting Kit f. C Option, 40mm, A2/A3
MCF 105 assembly kit A2 / A3 for C option

130B9001 ↗
multiple 2 pole power combicon, 24V plug

x10

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

130B0264 ↗
Cradle for A5,B1,B2,C1,C2,D2h enclosure
cradle for LCP cradle for a5, b1,b2,c1,

130B0295 ↗
Accessory bag with control card plugs

130B1077 ↗
Blindcover, w/ Danfoss logo, IP55/66
LCP Blindcover IP66

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

Spare Parts

130B1069 ↗
Multiple relay 1 plug
spare, 3 pole connector, relay 1, fc300

130B1068 ↗
Multiple relay 2 plug
spare, 3 pole connector, relay 2, fc300

130B1063 ↗
DC coil 30kW T4/6 and 15kW T2

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

130B1825 ↗
Power Card 30kW 400/500V

130B1844 ↗
Switch Mode Power Supply 30kW 500V

134B1726 ↗
Control Card with safe stop for FC-302
NOTE:
The MKII control cards are backward compatible to the old cards but will only work with SW equal or
higher than 8.12. If your drive has a customer specific software or a brand labeled software
version please order the old control card MKI PN: 130B1109

134B1986 ↗
Accessory bag for smooth cable entry B2
Accessory bag for smooth cable entry B2

134B7130 ↗
Gasket for cable entry, frame B1 and B2

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

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Spare Parts

134B7131 ↗
External fan for frame size B2 and I6
External fan for frame size B2 and I6

134B7134 ↗
Coated internal fan frame size B1 & B2
Note: Old material number 130B3441

134B7174 ↗
Bus bar assembly, B2/I6
Bus bar assembly, B2/I6

134B7176 ↗
cable jumper/cable jumper 44 pole b2
Note: Old material number 130B4613

134B7172 ↗
Gasket for local control panel IP55/66

134B7178 ↗
24 pole 3 connector jumper for C option
24 pole 3 connector jumper for C option

134B7057 ↗
Screws 12 pcs 640f0774 cover B1 B2 C1 C2

134B7272 ↗
Front cover IP55,66 for LCP frame B2

134B5998 ↗
24 pole jumper/2 connector jumper

134B7388 ↗
Cable entry for B2 with metric tread

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

Spare Parts

134B7466 ↗

Option A Ethernet Package

Services

131B1523 ↗

FC-302P22KT5E55H1BGXXXXSXXXXAXBXCXXXXDX

Frequency converter

FC-302P22KT5E55H1BGXXXXSXXXXAXBXCXXXXDX

VLT® AutomationDrive FC-302

(P22K) 22 KW / 30 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.

No A Option, No B Option

No C1 option, No D option

Frame: B2

Other options according to Model code

Model code: FC-302P22KT5E55H1BGXXXXSXXXXAXBXCXXXXDX

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 months

DrivePro® Standard Extended Warranty provides repair at a Danfoss Drives workshop, or shipment of a replacement product to the site.

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

130R1134 ↗

DrivePro ExWarr Work Shop PG04 48 months

DrivePro® Standard Extended Warranty provides repair at a Danfoss Drives workshop, or shipment of a replacement product to the site.

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

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

ENGINEERING
TOMORROW

Services

130R1135 ☐
DrivePro ExWarr Work Shop PG04 54 months
DrivePro® Standard Extended Warranty provides repair at a Danfoss Drives
workshop, or shipment of a replacement product to the site.
You can only order DrivePro® Extended Warranty when purchased with a new
drive. For drives previously shipped or purchased; contact your local
Danfoss Drives sales office for extended warranty contract options.

130R1137 ☐
DrivePro ExWarr Work Shop PG04 66 months
DrivePro® Standard Extended Warranty provides repair at a Danfoss Drives
workshop, or shipment of a replacement product to the site.
You can only order DrivePro® Extended Warranty when purchased with a new
drive. For drives previously shipped or purchased; contact your local
Danfoss Drives sales office for extended warranty contract options.

130R1138 ☐
DrivePro ExWarr Work Shop PG04 72 months
DrivePro® Standard Extended Warranty provides repair at a Danfoss Drives
workshop, or shipment of a replacement product to the site.
You can only order DrivePro® Extended Warranty when purchased with a new
drive. For drives previously shipped or purchased; contact your local
Danfoss Drives sales office for extended warranty contract options.

130R1136 ☐
DrivePro ExWarr Work Shop PG04 60 months
DrivePro® Standard Extended Warranty provides repair at a Danfoss Drives
workshop, or shipment of a replacement product to the site.
You can only order DrivePro® Extended Warranty when purchased with a new
drive. For drives previously shipped or purchased; contact your local
Danfoss Drives sales office for extended warranty contract options.

130R1130 ☐
DrivePro ExWarr Work Shop PG04 24 months
DrivePro® Standard Extended Warranty provides repair at a Danfoss Drives
workshop, or shipment of a replacement product to the site.
You can only order DrivePro® Extended Warranty when purchased with a new
drive. For drives previously shipped or purchased; contact your local
Danfoss Drives sales office for extended warranty contract options.

130R1132 ☐
DrivePro ExWarr Work Shop PG04 36 months
DrivePro® Standard Extended Warranty provides repair at a Danfoss Drives
workshop, or shipment of a replacement product to the site.
You can only order DrivePro® Extended Warranty when purchased with a new
drive. For drives previously shipped or purchased; contact your local
Danfoss Drives sales office for extended warranty contract options.

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

Services

130R1133 ↗

DrivePro ExWarr Work Shop PG04 42 months

DrivePro® Standard Extended Warranty provides repair at a Danfoss Drives workshop, or shipment of a replacement product to the site.

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

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.

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.

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.

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.

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.

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

ENGINEERING TOMORROW

Services

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.

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.

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

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Services

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.

130R1324 ↗

DrivePro SU + ctr interface test A,B & C

DrivePro Start-Up Control interface testing small frame unit

130R1321 ↗

DrivePro SU + spec. applications A,B & C

DrivePro Start-Up special applications small frame unit

130R1313 ↗

DrivePro Start-Up 1 day on-demand small

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.

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

Services

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.

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.

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

Services

Image
coming
soon

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.

Image
coming
soon

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.

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