



131B0593 🕑

FC-302P7K5T5E20H1BXXXXSXXXA0BXCXXXXDXFrequency converterFC-302P7K5T5E20H1BXXXXSXXXA0BXCXXXXDXVLT* AutomationDrive FC-302(P7K5) 7.5 KW / 10 HP, Three phase380 - 500 VAC, (E20) IP20 / Chassis(H1) RFI Class A1/B (C1)Brake chopperNo Loc. Cont. PanelNot coated PCB, No Mains OptionLatest release std. SW.Frame: A3No C1 option, No D optionPROFIBUS DP MCA 101, No B OptionOther options according to Model code

Model code: FC-302P7K5T5E20H1BXXXXSXXXA0BXCXXXXDX

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

TRODUCT DETAILS		
Gross weight		7.47 kg
Net weight		6.88 kg
Volume		22.041
EAN		5702427148765
Sales restriction control		
Matr grp for sales restriction	0001	No grouping
VLT® AUTOMATIONDRIVE FC 30	0 SERIES	
Product View (Switch)	GLBL	Global (Standard)
Product Group	FC-	VLT® AutomationDrive FC-
Series	302	302
Power Rating	P7K5	(P7K5) 7.5 KW / 10 HP
Phase	Т	Three phase
Mains Voltage	5	380 - 500 VAC
Enclosure	E20	(E20) IP20 / Chassis
RFI Filter	H1	(H1) RFI Class A1/B (C1)
Brake - Safe Stop	В	Brake chopper
LCP	X	No Loc. Cont. Panel
Coating PCB	X	Not coated PCB
Mains Option	X	No Mains Option
Adaptation A	X	Standard Cable Entries
Adaptation B	Х	No adaptation
Software Release	SXXX	Latest release std. SW.
Software Language Pack	X	Standard Language Pack
A Option	A0	PROFIBUS DP MCA 101
B Option	BX	No B Option

PRODUCT DETAILS

C0 Option MCO	СХ	No C0 option
C1 Option	Х	No C1 option
C Option Software	XX	No software option
D Option	DX	No D option
Frame Size	A3	A3
Typecode Part 1		FC-302P7K5T5E20H1BXX
Typecode Part 2		XXXSXXXA0BXCXXXXDX
Product Catalog	NO_VIEW	NOVIEW
Power 160% (HO) [KW]		7.5
Height [mm]		268,0
Width w/ no C options [mm]		130,0
Width w/ two C options [mm]		190,0
Depth [mm]		205,0
Depth with Option A/B [mm]		220,0
kVA		11.1
Power Loss HO [W]		225
Power Loss HO [W]		225
Continuous Current (HO) [A]		16
Intermittent Current (HO) [A]		25.6
Continuous Current (HO) [A]		14.5
Intermittent Current (HO) [A]		23.2
Calculated Gross Weight [kg]		7.15
Calculated Net Weight [kg]		6.62
Vendor	ERR01	Cannot Determine Vendor
Modelcode01		FC-302P7K5T5E20H1BXX
Modelcode02		XXXSXXXA0BXCXXXXDX

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

Accessories

130B3290 🛛

VLT® Safe option MCB 151, coated

 VLT^{\ast} Safe option MCB 151, painted for HTL feedback, can be used up to PL d or SIL 2



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.

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







130B7530 🖻 👘

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



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.

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





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



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



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 🗅





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.



130B1212 🛛

VLT® General Purpose I/O MCB 101, ctd

MCB 101 - Advanced I / O option Expands the number of freely programmable

Expands the number of freely programmable

- Control inputs and outputs around the following ${\rm I}\,/\,{\rm Os:}$
- 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



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.

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





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.



130B0185 🗠

Adapter Plate, 395x220mm

With the adapter plate you can replace a VLT* 5/6/8000 by a FC drive without having to drill new holes for the FC drive. This makes it easy and fast to replace a VLT* 5/6/8000, and as there will be no drilling there will be no swarf harming the electric components. The following VLT* 5/6/8000 can be mounted on the Adapter Plate 130B0185: IP20 Compact: 200-240Volt VLT5001-5006, 380/500Volt VLT5001-5011 IP20/NM1: 200-240Volt VLT6002-6005, 380/460Volt VLT6002-6011, 380-480Volt VLT8006-8011, 550-600Volt VLT 5001-5011, 525-690Volt VLT8002-8011



130B0184 2

Adapter Plate, 395x130mm

With the adapter plate you can replace a VLT® 5/6/8000 by a FC drive without having to drill new holes for the FC drive. This makes it easy and fast to replace a VLT® 5/6/8000, and as there will be no drilling there will be no swarf harming the electric components. The following VLT® 5/6/8000 can be mounted on the Adapter Plate 130B0184: IP20 Book: 200-240Volt VLT5004-5006/VLT6004-6005, 380/500Volt VLT5006-5011, 380-460Volt VLT6006-6011

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



1.1	130B1134 🗠
	VLT [®] Motion Control MCO 305, uncoated
	Integrated and programmable motion controller for VLT [®] AutomationDrive FC 301 and FC 302
	- Adds additional functionality and flexibility as it is a freely programmable module
	- Optimized for all types of positioning and synchronization applications
	- Make your own program specially adapted to your application
	Contains:
	- synchronization (electronic shaft), positioning and electronic cam control
	- 2 inputs support both stepwise and absolute encoders
	- 1 encoder output (virtual master function)
	10 digital inputs
	8 digital outputs
	- Sends and receives data via fieldbus interface (requires fieldbus Option)
	- PC software for programming and commissioning.
	Remember to order the Mounting kit if the above MCO option is required retrofitted.
	130B7530 - Mounting kit for enclosures A2 and A3
	130B7531 - Mounting kit for MCO Option, together with MCB 113, in enclosures A2 and A3.
	130B1413 - Mounting kit for enclosure B3
	130B1414 - Mounting kit for MCO Option, together with MCB 113, in enclosure B3
	130B7532 - Mounting kit for enclosure A5
	130B7533 - Mounting kit for all enclosures B, C, D, E and F (B3 excepted)
	Danfoss MCO options are not sold without prior advice. Danfoss can offer help with
	programming / setting up MCO options. Contact Danfoss for advice and prices.
	Product group: R



130B1133 🛛

IP 21/Type 1 conversion kit, top, A3

This is only the top part of the kit - If you need a kit with both top and bottom please order 130B1123



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.

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

Product Detail | FC-302P7K5T5E20H1BXXXXSXXXA0BXCXXXDX

ENGINEERING TOMORROW

	130B1123 ☑ IP 21/Type 1 conversion kit, A3 Cover for housing size A3, type 1 MCF 101 NEMA1 / IP21	
THE ST	130B1120 II	
	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 🖻	
NG NU 2000	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.	
	speed control as well as closed-loop hux motor control.	
1	130B1113 🛛	
	Icp panel kit/fc300 fg-Icp panel kit The kit includes graphical LCP, fasteners, 3m cable and gasket.	
2001 1	me kit includes graphical ECF, lasteners, sin cable and gasket.	
	130B1112 II	
	Sub-D9 Adapter kit, A1, A2, A3 SUB-D9 plug adapter for FC 100 and FC 300. Allows the use of SUB-D9 connectors	
	at the Profibus DP interface.	
	130B1110 🖻	
	VLT [®] Relay Option MCB 105, uncoated	
C.	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 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 🗈



10 · · ·	130B1153 🗠
- BE	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

130B1152 🕑

VLT® Synchronizing Contr. MCO350, unctd

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



130B1137 🖄

VLT[®] PTC Thermistor Card MCB 112, ctd

MCB 112 PTC - thermistor relay MS220DA In connection with ATEX certified explosion-proof motors for full motor protection. Certified PTC sensors are the sole protection required. Integrable module with ATEX-compliant full thermal motor protection 1 PTB-certified PTC thermistor input 1 switch-off signal for using the Safe Stop function

- 1 logic output for error identification



130B1077 🕑

Blindcover, w/ Danfoss logo, IP55/66 LCP Blindcover IP66

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



-	130B1108 🗠
	VLT [®] 24V DC Supply MCB 107, uncoated
112	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 년
346.	VLT° Control Panel LCP 102
1831	Graphic operating unit LCP102 Illuminated graphic display with plain
0000	text. Supports all languages and characters. Quick menu for brief
	commissioning. Saving and copying parameter sets. Online help for each
	function
	12001000 m
	130B1088 🗹 LCP Blindcover, w/ Danfoss logo, IP20/21
KINT A	LCF bindcovel, w/ Damoss logo, iF20/21
	175U0086 년
A CONTRACT OF THE OWNER OWNER OF THE OWNER OWNER OWNER OWNE OWNER OWNE OWNE OWNER OWNE OWNER OWNER OWNE OWNE OWNE OWNER OWNER OWNE OWNER OWNE OWNER	Mount. Brack.: Footprint, A3, f.2 br.res
5/3 All 17	Back frame A3 for 2 brake resistors
	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
	Product group: PT
	175U0009 🗈
Image coming	Mounting bracket Kit, 216 x 30 x 18mm
soon	Mounting angle for flatpack resistor 200W
	175N2584 ⊵
	VLT® EtherNet/IP Modbus TCP gateway
	134B5224 ⊵
Image	Remote LCP unit, 5m
coming soon	Remote mounting kit for LCP with cover for outdoor mounting with 5 m (16
	ft) cable
	-,

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





134B5223 ☑ Remote LCP unit, 3m

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



LCP 103 Wireless Communication Panel

With VLT® Wireless Communication Panel LCP 103 you can communicate with MyDrive® Connect - an app that can be downloaded for iOS and Android based smartphones. MyDrive® Connect makes commissioning easy, monitor and maintain tasks on your frequency converter. VLT® Wireless Communication Panel LCP 103 shows the current status of the drive (On, Warning, Alarm, Wifi connection) via built-in LED. Detailed information is also available using MyDrive® Connect. Here do you have access to i.a. status, menu and alerts. You can also see graphs over the latest available data. The new VLT® Wireless Communication Panel LCP 103 allows you to wireless communication to the following drives: - VLT® HVAC Drive FC 102 - VLT® Refrigeration Drive FC 103 - VLT® AQUA Drive FC 202 - VLT[®] AutomationDrive FC 302 [!] Note! LCP 103 only works on frequency converters produced in 2018 (White USB stik). Product group: R1

Image coming

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



134B6544 🛽

Real Time Clock D slot option MCB117

The VLT® Real-time clock option MCB 117 option provides advanced datalogging 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.

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

Product Detail | FC-302P7K5T5E20H1BXXXXXSXXXA0BXCXXXXDX

ENGINEERING TOMORROW



cessories	
A	130B0295 🖻
	Accessory bag with control card plugs
11 D 📦 🗰	130B1022 🗹
	Accessory bag for framesize A2, A3
	134B8493 ⊵
	Transducer 0-25mm/s RMS 4-20mA
and a second sec	CBM Transducer 0-25mm/s RMS 4-20mA
	134B8496 ⊠
O'	CABLE ASSY 10M, STRAIGHT SOCKET CONNETC.

Spare Parts



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



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 GSDfile. Acyclic parameterization using PROFIBUS DP-V1, ¬PROFIdrive or Danfoss FC profile state machines, PROFIBUS DP-V1, Master Class 1 and 2.

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

Product Detail | FC-302P7K5T5E20H1BXXXXSXXXA0BXCXXXDX

ENGINEERING TOMORROW



	130B1012 🖻 Terminal cover frame A1-A3 with option	
•	130B1008 ₪	
	Frame for LCP Control Pad with option	
1 .0 p	130B1022 🖻	
	Accessory bag for framesize A2, A3	
	130B0295 🖄	
all and the second seco	Accessory bag with control card plugs	
4.5	130B1069 🖄	
	Multiple relay 1 plug	
~~~	spare, 3 pole connector, relay 1, fc300	
44FF	130B1068 ₪ Multiple relay 2 plug	
	spare, 3 pole connector, relay 2, fc300	
	130B1067 ⊵	
666 <u>8</u> 999	Multiple non-twistd mains plug	
	130B1064 ⊠	
<b>1</b>	Terminal block for brake and loadsharing	
	Terminal block for brake and loadsharing	
	<b>130B1097 ⊵</b> Fan assembly 80x80x25mm coated	
- Alexandre		
	130B1088 ₪	
~	LCP Blindcover, w/ Danfoss logo, IP20/21	

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



### **Spare Parts**



# 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

Services



## 131B0052 🖄

FC-302P7K5T5E20H1BGXXXSXXXAXBXCXXXXAXBXCXXXXAXB Frequency converter FC-302P7K5T5E20H1BGXXXXSXXXAXBXCXXXXDX VLT® AutomationDrive FC-302 (P7K5) 7.5 KW / 10 HP, Three phase 380 - 500 VAC, (E20) IP20 / Chassis (H1) RFI Class A1/B (C1) Brake chopper Graphical Loc. Cont. Panel Not coated PCB, No Mains Option Latest release std. SW. Frame: A3 No C1 option, No D option No A Option, No B Option Other options according to Model code

Model code: FC-302P7K5T5E20H1BGXXXXSXXXAXBXCXXXXDX

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.

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