

**134F0374****FC-102N110T4E20H2XGCXXXSXXXAXBXCXXXDX**

FC-102N110T4E20H2XGCXXXSXXXAXBXCXXXDX

Frekans Knavertörü

FC-102N110T4E20H2XGCXXXSXXXAXBXCXXXDX

VLT® HVAC Drive FC-102

(N110) 110 KW / 150 HP, Trifaze

380 - 480 VAC, IP 20 / Şasi

RFI Sınıfı A2 (C3)

Fren kesici yok

Grafik Lokal Kontrol Panel

Kaplama PCB, Şebeke Seçeneği yok

Son sürüm std. yazılım

Kasa Boyutu: D3H

C1 opsiyonu yok, D seçeneği yok

A Seçeneği Yok, B Seçeneği Yok

Model Koduna göre diğer seçenekler

Model kodu: FC-102N110T4E20H2XGCXXXSXXXAXBXCXXXDX

VLT® HVAC Drive, havalandırma, ısıtma ve soğutma uygulamalarına yöneliktir.

Geniş kapsamlı güçlü standart ve isteğe bağlı özellikleri ile bu sürücü en

düşük genel maliyeti sağlar.

Verimlilik Verilerini Görüntüleme**PRODUCT DETAILS**

Brüt ağırlık		67 kg
Net ağırlık		62 kg
Hacim		0 l
EAN		5710107400751
VLT® HVAC DRIVE FC 100 SERIES		
Ürün Görünümü (Anahtar)	GLBL	Global (Standart)
Ürün Grubu	FC-	VLT® HVAC Drive FC-
Seri	102	102
Güç Değeri	N110	(N110) 110 KW / 150 HP
Faz	T	Trifaze
Şebeke Voltajı	4	380 - 480 VAC
Muhafaza	E20	IP 20 / Şasi
RFI Filtresi	H2	RFI Sınıfı A2 (C3)
Fren - Güvenli Duruş	X	Fren kesici yok
LCP	G	Grafik Lokal Kontrol Panel
Kaplama PCB	C	Kaplama PCB
Şebeke Opsiyonu	X	Şebeke Seçeneği yok
Uyarlama A	X	Standart Kablo Girişleri
Uyarlama B	X	Uyarlama yok
Yazılım Sürümü	SXXX	Son sürüm std. yazılım
Yazılım Dil Paketi	X	Standart Dil Paketi
A Opsiyonu	AX	A Seçeneği Yok
B Opsiyonu	BX	B Seçeneği Yok

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Product Detail | FC-102N110T4E20H2XGCXXXSXXXAXBXXXXX

PRODUCT DETAILS

C0 Opsiyonu MCO	CX	C0 seçeneği yok
C1 Opsiyonu	X	C1 opsiyonu yok
C Opsiyon Yazılımı	XX	Yazılım seçeneği yok
D Opsiyonu	DX	D seçeneği yok
Kasa Boyutu	D3H	D3H
Ürün Kataloğu	NO_VIEW	GÖRÜNTÜ YOK
Tür Kodu Parça 1		FC-102N110T4E20H2XGC
Tür Kodu Parça 2		XXXSXXXAXBXXXXX
Güç %110 (NO) [KW]		110
Yükseklik [mm]		909,0
Rejen/Yük Pylş ile Ykskık [mm]		1004,0
C opsiyonu olm. genişlik [mm]		250,0
Derinlik [mm]		375,0
A/B opsiyonu ile Derinlik [mm]		375,0
kVA		147
Güç Kaybı NO [W]		2555
Güç Kaybı NO [W]		2257
Sürekli Akım (NO) [A]		212
Kesintili Akım (NO) [A]		233
Sürekli Akım (NO) [A]		190
Kesintili Akım (NO) [A]		209
Hesaplanan Brüt Ağırlık [kg]		62.3
Hes. Net Ağı. [kg]		62
ECCN EU		X.A.I.003
ECCN US		3A999
Sipariş Hattından Tesis		B901
Satıcı	ERR01	Satıcı Belirlenmiyor
Fabrika Tarafından Önerilen	ERR01	Satıcı Belirlenmiyor
Modelkodu01		FC-102N110T4E20H2XGC
Modelkodu02		XXXSXXXAXBXXXXX

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

Aksesuarlar

Image
coming
soon

176F3627 [🔗](#)

Cooling Kit, in btm/ out top, 1800, D3h

Image
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176F3625 [🔗](#)

VLT® in back/out back cooling kit d3h

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Aksesuarlar

Image
coming
soon**176F3633****Cooling Kit, in back/out back, D3h**

kit, cooling, in back out back, 3r, d3h

Image
coming
soon**176F3629****Cooling Kit, in btm/out top, 2000mm, D3h**Image
coming
soon**176F3409****VLT® drive replace adptr plate d1h d3h**

VLT® drive replace adptr plate d1h d3h

**130B1235****VLT® PROFINET MCA 120, kaplamalı**

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

**130B1243****VLT® Analog I/O Option MCB109, kaplamalı**

I / O extension for FC 100, easy to retrofit thanks to modular technology.

Analog inputs / outputs galvanically isolated.

Expands the analog inputs / outputs by:

3 analog inputs: 0 ... 10V / Pt1000 / Ni1000

3 analog outputs: 0 ... 10V

Time switch (RTC backup): lithium cell for 10 years

**130B1219****VLT® EtherNet IP MCA 121, kaplamalı**

EtherNet/IP; ticari kullanıma hazır Ethernet'i, DeviceNet'te bulunan aynı üst katman protokolü ve nesne modeli olan Ortak Endüstriyel Protokole (CIP™) genişletir. Hat topolojisi sağlayan ve harici anahtar ihtiyacını ortadan kaldıran dahili yüksek performanslı anahtar. Daha yüksek sistem kullanılabilirliği için Aygıt Düzeyinde Halka (DLR) topolojisi. CIP™ temelinde, DeviceNet'ten EtherNet/IP'ye geçiş sırasında PLC programının tekrar kullanılmasını mümkün kılar. Dahili web sunucusu uzaktan arıza tespiti ve temel sürücü parametrelerini okuma olanağı sağlar. E-posta bildirimi, uyarı veya alarm bilgilerine hızlı erişim sağlar. Gelişmiş ağ kullanımı için Tek Noktaya Yayın ve Çok Noktaya Yayın iletişimi. En yeni standarda uyum konusunda ODVA onaylı.

**130B1170****LCP Panel Montaj Kiti**

Kit; tespit elemanları ve conta içerir. LCP ve kablo içermez.

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Aksesuarlar

**130B1212****VLT® General Purpose I/O MCB 101, kplımlı**

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, kaplamalı**

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****VLT® 24V DC Supply MCB 107, kaplamalı**

Güç arızası sırasında kontrol bölümünü ve tüm kurulu opsiyonları çalışır durumda tutmak için harici bir DC beslemesi bağlayın. LCP'nin (parametre ayarı dahil) ve tüm kurulu opsiyonların şebeke bağlantısı olmadan tam olarak çalışmasını sağlar.

**130B1202****VLT® DeviceNet MCA 104, kaplamalı**

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

**130B1200****VLT® Profibus DP V1 MCA 101, kaplamalı**

Geniş çaplı uyumluluk, yüksek düzeyde kullanılabilirlik, tüm büyük PLC sağlayıcıları için destek ve gelecekteki versiyonlarla uyumluluk sağlar. Hızlı, verimli iletişim, şeffaf kurulum, gelişmiş arıza bulma ve parametrelendirme ile GSD dosyası kullanarak süreç verilerinin otomatik konfigürasyonu. PROFIBUS DP-V1, -PROFIdrive veya Danfoss FC profili durum makineleri, PROFIBUS DP-V1, Master Sınıf 1 ve 2 kullanarak çevrimsiz parametrelendirme.

**130B1386****VLT® Profibus DP V1 MCA 101, kpl., 5 adt**

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Aksesuarlar

**130B1385****VLT® Profibus DP V1 MCA101, kplmsz 5 adt****130B1296****VLT® Modbus TCP MCA 122, kaplamalı**

Otomasyona yönelik ilk endüstriyel Ethernet tabanlı protokol. Modbus-TCP tabanlı ağlara bağlanır. Bağlantı aralığını her iki yönde 5 ms'ye kadar düşürebilmesi sayesinde, piyasadaki en hızlı çalışan Modbus TCP aygıtları arasında yer alır. Master yedekliliği için iki master arasında çalışırken değiştirebilme özelliği sunar.

**130B1135****VLT® PROFINET MCA 120, kaplamasız**

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

**130B1125****VLT® General Purpose I/O MCB 101, kplmsz**

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, nümerik**

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.

**130B1117****LCP Montaj Kiti, LCP'siz**

Kit; tespit elemanları, 3 m kablo ve conta içerir. LCP içermez.

**130B1110****VLT® Relay Option MCB 105, kaplamasız**

Relay extension for FC 100 and FC 300. Extension with 3 additional load relays (changeover contacts), easy to retrofit thanks to modular technology.

Max. Load 240V AC (resistive): 2 A

Max. Load 240V AC (Cos Phi 0.4): 0.2 A

Max. Load 24V DC (ohmic): 1 A

Max. Load 24V DC (inductive): 0.1 A

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Aksesuarlar

**130B1143****VLT® Analog I/O Option MCB 109, kplmsz**

I / O expansion for FC 100, through modular technology easy to retrofit. Analog inputs/outputs galvanically isolated.

Expands the analog inputs / outputs by:

3 analog inputs: 0 ... 10V / Pt1000 / Ni1000

3 analog outputs: 0 ... 10V

Time switch (RTC backup): lithium cell for 10 years

**130B1137****VLT® PTC Thermistor Card MCB 112, kplımlı**

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

MCB 112 PTC - thermistor relay MS220DA In connection with ATEX certified explosion-proof motors for full motor protection. Certified PTC sensors are the sole protection required.

Integrable module with ATEX-compliant full thermal motor protection

1 PTB-certified PTC thermistor input

1 switch-off signal for using the Safe Stop function

1 logic output for error identification

**130B1071****6 Kutuplu Konektör, FC serisi, (10 adet)**

6-pole spring cage connectors 10 pcs

**130B1070****RS485 fiş, FC serisi, (10 adet)**

10pcs RS485 connectors for FC-series.

Product group: R

**130B1100****VLT® Profibus DP V1 MCA 101**

Geniş çaplı uyumluluk, yüksek düzeyde kullanılabilirlik, tüm büyük PLC sağlayıcıları için destek ve gelecekteki versiyonlarla uyumluluk sağlar. Hızlı, verimli iletişim, şeffaf kurulum, gelişmiş arıza bulma ve parametrelendirme ile GSD dosyası kullanarak süreç verilerinin otomatik konfigürasyonu. PROFIBUS DP-V1, -PROFIdrive veya Danfoss FC profili durum makineleri, PROFIBUS DP-V1, Master Sınıf 1 ve 2 kullanarak çevrimsiz parametrelendirme.

**130B1088****IP20/21 için Danfoss logolu LCP kör kpk.**

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Aksesuarlar

**175Z0929** [↗](#)**LCP Kablosu, 3 m**

Cable for control panel (LCP), 3 meters

Works with the following LCP:

Alphanumeric control panel LCP3 - 175N0131

VLT® LCP 102 Graphic Display - 130B1107

VLT® LCP 101 Numeric Display - 130B1124

VLT® LCP 102 Graphic display IP66 - 130B1078

Product group: F1

Image
coming
soon

175U0009 [↗](#)**Montaj braketi kiti, 216 x 30 x 18 mm**

Mounting angle for flatpack resistor 200W

**175N2584** [↗](#)**VLT® EtherNet/IP MCA 121, kaplamalı**

Image
coming
soon

134B5225 [↗](#)**Uzak LCP ünitesi, 10 m**

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

Image
coming
soon

134B5224 [↗](#)**Uzak LCP ünitesi, 5 m**

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

**134B5223** [↗](#)**Uzak Montaj Kiti LCP102, 3 m kablo ile**

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

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Aksesuarlar

**134B0460****LCP 103 Wireless Communication Panel**

With VLT® Wireless Communication Panel LCP 103 you can communicate with MyDrive® Connect - an app that can be downloaded for iOS and Android based smartphones. MyDrive® Connect makes commissioning easy, monitor and maintain tasks on your frequency converter. VLT® Wireless Communication Panel LCP 103 shows the current status of the drive (On, Warning, Alarm, Wifi connection) via built-in LED. Detailed information is also available using MyDrive® Connect. Here do you have access to i.a. status, menu and alerts. You can also see graphs over the latest available data.

The new VLT® Wireless Communication Panel LCP 103 allows you to wireless communication to the following drives:

- VLT® HVAC Drive FC 102
- VLT® Refrigeration Drive FC 103
- VLT® AQUA Drive FC 202
- VLT® AutomationDrive FC 302

[!] Note!

LCP 103 only works on frequency converters produced in 2018 (White USB stik).

Product group: R1

Image
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soon

134B1992**Vida bağlantılı kontrol terminalleri****130B1144****VLT® BACnet MCA 109, kaplamasız**

Open communication protocol dedicated to building automation

- Efficient integration of all parts of building automation equipment
- BACnet: standard for building automation worldwide
- International standard ISO 16484-5
- can be used in all sizes of building automation systems
- the Drive communicates easily with construction management systems running the BACnet protocol
- can be easily integrated into the network of existing control equipment

Product group: R1

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Aksesuarlar

**130B1244** [🔗](#)**VLT® BACnet MCA 109, kaplamalı**

A. Device profile: Application-Specific-Controller (B-ASC)

Supported objects: Analog Input, Analog Output, Analog Value, Binary Input, binary output,

Binary Value, Device, Multi-State Output, Notification Class

Protocol: Building automation world standard ISO 16484-5

Data Link Layer: MS / TP 9600, 19200, 38400, 76800

Data sharing: ReadProperty-B, DS-RP-B

ReadPropertyMultiple-B, DS-RPM-B

WriteProperty-B, DS-WP-B

WritePropertyMultiple-B, DS-WPM-B

Alarm and Notification Internal-B, AE-N-I-B

Event Notification: ACK-B, AE-ACK-B

Information-B, AE-INFO-B

Device and Network Dynamic Device Binding-A, DM-DDB-A

Management: Dynamic Device Binding-B, DM-DDB-B

**130B1206** [🔗](#)**VLT® LonWorks MCA 108, kaplamalı**

Lonworks interface for FC 100. With modular technology

Fieldbus option that can be easily retrofitted for the decentralized integration of the Frequency converter. The fieldbus option is based on the LonWorks Technology and corresponds to the LonMark Interoperability Guide.

Painted version for harsh environments

Hardware: Module technology for option slot A

Transceiver: Free topology FTT 10

Transfer rate: 78kbit / s

Protocol: Echelon LonTalk

Image
coming
soon

176F6760 [🔗](#)**KIT,DUCT,IN-BOTTOM/OUT-TOP,D3H**

Image
coming
soon

176F3812 [🔗](#)**KIT,MULTI WIRE,MOTOR,BB,D1H,D3H,P454**

Image
coming
soon

176F3854 [🔗](#)**KIT,MULTI WIRE,MAINS,BB,D1H/D3H,P454**

KIT,MULTI WIRE,MAINS,BB,D1H/D3H,P454

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176F6770 [🔗](#)**KIT, COMMON MODE, T5/50M, P454**

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Aksesuarlar

Image
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soon**176F3519** [🔗](#)**kit,cooling,in back out back,weld,d3h**Image
coming
soon**176F3522** [🔗](#)**kit,cooling,in bottom out back,d1h d3h****130B0295** [🔗](#)**Kontrol kartı girişli aksesuar çantası****134B1586** [🔗](#)**VLT® BACNET/IP MCA125**

VLT® BACnet/IP MCA 125 opsiyonu, BACnet/IP protokolünü kullanan ya da Ethernet'te BACnet çalıştıran bina yönetim sistemleriyle birlikte VLT® HVAC Drive kullanımını optimize eden tak çalıştır çözümdür.

VLT® BACnet/IP MCA 125 opsiyonunun gömülü üç adet port tarafından yönetilen anahtarı iki harici ve bir dahili Ethernet portundan oluşur. Bu anahtar, modern kurulumlarda gittikçe daha cazip hale gelen Ethernet kablo tesisatı için hat yapısının kullanılmasını sağlar.

Image
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soon**130B4847** [🔗](#)**extension cable for lcp+communication****134B8814** [🔗](#)**VLT® PROFINET MCA120 coated 5pcs****134B8492** [🔗](#)**Transducer 0-10g, 4-20mA; HS-22B50****134B8493** [🔗](#)**Transducer 0-25mm/s RMS 4-20mA****CBM Transducer 0-25mm/s RMS 4-20mA****134B8494** [🔗](#)**Transducer w, temp 0-25mm/s RMS 4-20mA**

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Aksesuarlar

**134B8496** [🔗](#)**CABLE ASSY 10M, STRAIGHT SOCKET CONNETC.**Image
coming
soon**134B8497** [🔗](#)**Cable assy, M12 female connec.10m screen**Image
coming
soon**134B6883** [🔗](#)**VLT Progr. Contr. MCB 301, coated****134B9414** [🔗](#)**Antifreeze Thermostat FS20, 0/+15C**

TWO-PHASE FROST PROTECTION THERMOSTATS FS-20-UW

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

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

Accuracy: typical ± 1 K (at +10 °C)

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

Input: 1 x 0 -10 V control input DDC & 1 x 0 -10 V cascading input

Output: 1 x 0 -10 V output temperature (corresponding to 0...+15 °C) & 1 x 0 -10 V output valve (frost signal with control voltage and cascading)

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

Current consumption: max. 100 mA at 24 V DC

Load resistance: $R_L > 50 \text{ k}\Omega$

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

Power: 24VAC/DC (± 10%) 24DC <2,4W

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

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

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Aksesuarlar

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

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

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

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

VOC measuring range: 0...100 % air quality; referred to calibrating gas & selection of VOC sensitivities (low/medium/high)

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

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

CO2 measuring range: 0...5000 ppm

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

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

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

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

T2-IP65 plastic housing two M20 cable glands

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

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Aksesuarlar

**134B9412** [🔗](#)**Airflow Sensor TF65 PT1000 Temperature**

DUCT TEMPERATURE SENSOR TF 65

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

Sensor type: PT1000 class B (DIN EN 60751) 1000ohm at $0^{\circ}\text{C} \pm 0,3\text{ K}$ Measuring range: $-30...+150^{\circ}\text{C} / -22...+302^{\circ}\text{F}$ Ambient temperature: $-20...+100^{\circ}\text{C} / -4...+212^{\circ}\text{F}$ Testing current: $< 0.6\text{ mA}$ Insulating resistance: 100 M#, at $+20^{\circ}\text{C}$ (500V DC)

Connection type: 2-wire connection

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

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

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

**134B9411** [🔗](#)**Wall Sensor AFTF Temp & Humidity**

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

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

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

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

Deviation, humidity: typical $\pm 2.0\%$ (20...80 % RH) at $+25^{\circ}\text{C}$, otherwise $\pm 3.0\%$ Deviation, temperature: typical $\pm 0.4\text{ K}$ at $+25^{\circ}\text{C} / \pm 77^{\circ}\text{F}$ Zero point offset: $\pm 10\%$ RH (humidity) / $\pm 5^{\circ}\text{C}$ (temperature)Power: 24VAC ($\pm 20\%$) / 15...36VDC - 24DC $< 1,2\text{W}$ Operation temperature: $-30...+70^{\circ}\text{C} / -22...+158^{\circ}\text{F}$

T3-IP65 plastic housing with two M20 cable glands

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

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Aksesuarlar

**134B9410****Wall Sensor ATM2 Temperature**

OUTSIDE / WET ROOM TEMPERATURE SENSOR ATM2-MB

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

Sensor type: PT1000 class B (DIN EN 60751)

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

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

Zero point offset: ± 10 °C / ± 50 °F

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

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

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

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

T3-IP65 plastic housing with two M20 cable glands

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

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

DUCT HUMIDITY-, TEMPERATURE- AND PRESSURE SENSORS ±7000PA-MB

Maintenance-free duct sensor covering humidity, temperature and pressure in one transducer. Microprocessor-controlled with Modbus RTU connection in a resistant IP65 plastic housing with quick-locking screws and M16 cable gland for cable connection. Including mounting flange to detect the relative humidity (0...100% RH) and the temperature (-35...+80 °C) inside a tube, with an exchangeable plastic sinter filter. A differential air pressure (max. ± 7000 Pa) with connection nozzles for pressure hose (Ø 6 mm). The duct sensor is applied in a non-aggressive and dust-free environment and is suitable for installation in ceilings, ducts and devices. International SI units (default) can be switched to Imperial (via Modbus).

Measuring range: 0...100 % RH (humidity) / - 35...+80°C / -31... +176°F (temperature)

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

Deviation, humidity: typical ± 2.0 % (20...80 % RH) at +25°C/+77°F , otherwise ± 3.0 %

Deviation, temperature: typical ± 0.2 K at +25 °C / ± 0.4 °F at +77 °F

Pressure range: ± 7000 Pa

Accuracy: 7000 Pa/28 inWC: typical ± 105 Pa at +25 °C / ± 0.12 inWC at +77 °F

Above- # below-pressure: max. ± 50 kPa

Power: 24VAC (± 20%) / 15...36VDC - 24DC <0,2W

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

Media temperature -20...+50 °C / -4...+122 °F IP65 plastic housing two

M16 cable glands

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

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

DUCT HUMIDITY-, TEMPERATURE- AND PRESSURE SENSORS $\pm 500\text{Pa}$ -MB
Maintenance-free duct sensor covering humidity, temperature and pressure in one transducer. Microprocessor-controlled with Modbus RTU connection in a resistant IP65 plastic housing with quick-locking screws and M16 cable gland for cable connection. Including mounting flange to detect the relative humidity (0...100% RH) and the temperature ($-35...+80\text{ }^\circ\text{C}$) inside a tube, with an exchangeable plastic sinter filter. A differential air pressure (max. $\pm 500\text{ Pa}$) with connection nozzles for pressure hose ($\varnothing 6\text{ mm}$). The duct sensor is applied in a non-aggressive and dust-free environment and is suitable for installation in ceilings, ducts and devices. International SI units (default) can be switched to Imperial (via Modbus).

Measuring range: 0...100 % RH (humidity) / $-35...+80\text{ }^\circ\text{C}$ / $-31...+176\text{ }^\circ\text{F}$ (temperature)

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

Deviation, humidity: typical $\pm 2.0\%$ (20...80 % RH) at $+25\text{ }^\circ\text{C}/+77\text{ }^\circ\text{F}$, otherwise $\pm 3.0\%$

Deviation, temperature: typical $\pm 0.2\text{ K}$ at $+25\text{ }^\circ\text{C}$ / $\pm 0.4\text{ }^\circ\text{F}$ at $+77\text{ }^\circ\text{F}$

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

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

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

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

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

Media temperature $-20...+50\text{ }^\circ\text{C}$ / $-4...+122\text{ }^\circ\text{F}$ IP65 plastic housing two

M16 cable glands

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

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Aksesuarlar

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

DUCT HUMIDITY- AND TEMPERATURE SENSORS KFTF-MB

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

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

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

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

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

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

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

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

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

T3-IP65 plastic housing with two M20 cable glands

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

**134B9406****Pressure Sensor 7227 2x7000Pa, Analog**

DUAL AIR PRESSURE SENSOR $\pm 7000\text{ Pa}$ & $\pm 7000\text{ Pa}$, ANALOGUE

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

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

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

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

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

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

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

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

Load resistance: $R_L > 15\text{ kOhm}$ (at U output)

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

T2-IP65 plastic housing with one M16 cable gland

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

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

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

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

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

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

T2-IP65 plastic housing with one M16 cable gland

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

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

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

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

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

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

T2-IP65 plastic housing with one M16 cable gland

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

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

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

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

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

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

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

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

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

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

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

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**134B9400** [↗](#)**Pressure Sensor 7245T 2x500Pa & PT1000**DUAL AIR PRESSURE SENSOR $\pm 500\text{Pa}$ & $\pm 500\text{Pa-MB}$

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

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

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

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

Yedek parçalar

Image
coming
soon**176F3549** [↗](#)**Cover DC Link Coil Small Dh Frame****176F3540** [↗](#)**Heatsink fan cover Dh Frames****176F3479** [↗](#)**Power Terminal Cover IP20 D3h enclosure**Image
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soon**176F3761** [↗](#)**Loadshare Retrofit Kit for D4h Frame**

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Yedek parçalar

Image
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soon**176F3760** **Loadshare Retrofit Kit for D3h Frame****176F3331** **Cable Gate Drive to Inrush D1h/D3h****176F3328** **Cable Power Card to Gate Drive D1h/D3h****176F3326** **Cable Power Card to HF/RFI D1h/D3h****176F3324** **Cable DC bus to Power Card D1h/D3h****176F3322** **Cable Power Card to CT D1h-D3h**

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

**176F3320** **Cable Power Card to Door Fan D1h/D3h**Image
coming
soon**176F3390** **Front Cover IP20 D3h enclosure****176F3388** **Cradle for LCP D1h/D3h enclosure****176F3359** **Bus Bar mains, RFI, no fuse D1h/D3h****For more information, please use this link to visit the product page on Danfoss Product Store** 

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Yedek parçalar

**176F3357** [🔗](#)**Bus Bar mains, no fuse, no RFI D1h/D3h****176F3356** [🔗](#)**Bus Bar motor terminals U,V,W D1h/D3h**

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

**176F3355** [🔗](#)**Insulation Motor Terminals D1h/D3h****176F3354** [🔗](#)**Insulation Mains Terminals D1h/D3h****176F3353** [🔗](#)**Kapı fanı filtresi D3h kasa 10'lu paket**

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

**176F3351** [🔗](#)**Air Baffle D3h frame****176F3350** [🔗](#)**Bus Bar Assembly CAP Bank 400V D1h/D3h**

To be used on the following frame sizes

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

**176F3349** [🔗](#)**Bracket gate drive support D1h/D3h****176F3348** [🔗](#)**Bracket Inrush Support D1h/D3h****176F3347** [🔗](#)**Bus Bar Assembly Current Sensor D1h/D3h**

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

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Yedek parçalar

**176F3346** [🔗](#)**Bus Bar Assembly SCR to DC coil D1h/D3h****176F3345** [🔗](#)**Cable Clamp 45mm Dh Frame****176F3340** [🔗](#)**Bus Bar DC- Inductor to CAP Bank D1h/D3h****176F3339** [🔗](#)**Bus Bar DC+ Inductor to CAP Bank D1h/D3h****176F3338** [🔗](#)**Bus Bar SCR AC Input D1h/D3h****176F3333** [🔗](#)**Cable Inrush to SCR Gate D1h/D3h****176F3362** [🔗](#)**IGBT Dual Module 300amp T4/T5 Drive****176F3361** [🔗](#)**Bracket Inrush Support D2h/D4h****176F6634** [🔗](#)**CAPACITOR T5**

To be used on the following frame sizes

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

E-frame: Any datecode

**176F8323** [🔗](#)**IGBT snubber kon 1000 V 1,5 UF**

IGBT snubber cap, mounts on IGBT modules

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

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Yedek parçalar

**176F8318** [🔗](#)**Doğrultucu SCR/diyot 181 A 1600 V**

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

**176F6519** [🔗](#)**Cable Power Card to CT D1h-D3h**

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

**176F6518** [🔗](#)**Bus Bar motor terminals U,V,W D1h/D3h**

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

**176F6516** [🔗](#)**300A Current Sensor Conv. Kit - D1 Frame**

VLT için yedek parça: 300 A Akım Sensörü Dönüştürme Kiti - D1 Kasa

**176F6515** [🔗](#)**Akım sensörü 300 A - FX09**

2015 yılının 51. haftasında veya sonrasında üretilen sürücülerde kullanım için.

Image
coming
soon**176F6502** [🔗](#)**Enclosure Left Side D3h**Image
coming
soon**176F6449** [🔗](#)**Top Plate D3h****176F6448** [🔗](#)**Enclosure Right Side D3h****176F3183** [🔗](#)**Cable Control Card to Power Card D1h D3h****176F3181** [🔗](#)**Cable LCP to Control Card D1h D3h****For more information, please use this link to visit the product page on Danfoss Product Store** [🔗](#)

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Yedek parçalar

**176F3178** [🔗](#)**Cable IGBT Temp to Gate PCA D2h D4h****176F3177** [🔗](#)**Cable IGBT Temp to Gate PCA D1h D3h****176F3175** [🔗](#)**Cable IGBT Gate Signal D1h D3h****176F3165** [🔗](#)**Karıştırıcı fan DC 40X28 - 24 VDC**

Mixing fan, mounted below the input terminals

**176F3164** [🔗](#)**Heatsink Fan DC 172x51****176F3163** [🔗](#)**DC Bus CAP 4700uF 450V single in housing**

To be used on the following frame sizes

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

**176F3134** [🔗](#)**Power Card NO 110kW 380-480V****176F3161** [🔗](#)**Balance/HF Card NO 110-315kW 400V****176F3160** [🔗](#)**Gate Drive Card NO 110-315kW 400V****176F3159** [🔗](#)**Inrush Card NO 110-315kW 400V****For more information, please use this link to visit the product page on Danfoss Product Store** [🔗](#)

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Yedek parçalar

**176F3153****Akım ölçekleme kartı 4,57 ohm**

Installs on the power board

Image
coming
soon**176F8430****Cable Clamp for frame size D & E**

x10

130B9001**multiple 2 pole power combicon, 24V plug****130B0295****Kontrol kartı girişli aksesuar çantası****130B1069****Çoklu röle 1 fiş**

spare, 3 pole connector, relay 1, fc300

**130B1068****Çoklu röle 2 fiş**

spare, 3 pole connector, relay 2, fc300

**130B1107****VLT® Control Panel LCP 102**

VLT Control Panel LCP 102

Düz metinli, aydınlatmalı grafik ekran.

Tüm dilleri ve metin karakterlerini destekler.

Kısa sürede devreye alma için hızlı menü.

Parametre grupları için kaydetme ve kopyalama işlevi.

Tüm işlevler için çevrimiçi yardım.

**130B1088****IP20/21 için Danfoss logolu LCP kör kpk.****134B1730****FC-102 için güvenli drşsz kontr. kartı**

Yazılım versiyonu 5.21 veya üstü ile uyumludur. Sürücünüz müşteriye özel bir yazılıma veya marka etiketli bir yazılım versiyonuna sahipse, lütfen kontrol kartı parça numarası 130B1151 için sipariş verin.

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Yedek parçalar

**176F3166** [↗](#)**Top Fan IP20 DC 80x25**Image
coming
soon**176F6765** [↗](#)**Bus Bar Assy Capbank Twist 400V D1h/D3h**

Aşağıdaki muhafaza boyutlarında kullanılmalıdır
"H" üretim tesisinde, 2018 yılının 18. haftasında veya sonrasında üretilen, D muhafaza boyutlu sürücülerde kullanım için. Üretim tesisi, seri numarasının son 3 karakterinin önündeki karakterle gösterilir (örneğin, H188).

**176F3883** [↗](#)**FC100-302 Maintenance Pkg D3h**

1 Qty 176F3164 Heatsink Fan DC 172x51 48VDC
1 Qty 176F3165 MIXING FAN DC 40X28 24VDC
1 Qty 176F3166 Top Fan IP20 DC 80x25 48VDC

Image
coming
soon**134B6880** [↗](#)**VLT Progr. Contr. MCA 301, coated****176F6692** [↗](#)**Alet, kondansatör sökme/takma**

Tool to remove DC bus caps

**132Z0020** [↗](#)**FC102 Std. Spare Package 110kWT4 no Safe**

1 Qty 176F3159 Inrush Card NO 110-315kW 400V
1 Qty 176F3134 Power Card NO 110kW 380-480V
1 Qty 134B1730 Control Card w/o safe stop for FC-102

Image
coming
soon**134B5998** [↗](#)**24 pole jumper/2 connector jumper**Image
coming
soon**176F6769** [↗](#)**Thermal Grease - Pack of 5**Image
coming
soon**134B6883** [↗](#)**VLT Progr. Contr. MCB 301, coated**

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

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Yedek parçalar

**176F4181** [🔗](#)**Bsbr Crnt Sensor D1h/D3h - 300A LEM, HEX****176F4106** [🔗](#)**Fieldbus plate, highpower, IP20, 10 pcs****176F4196** [🔗](#)**Current Sensor Cable D1 LEM LF305**

This part is only used on products produced in Haiyan after week 36 2022

Please check that serial number has an "A" before the date code and that the date code is greater than or equal 000104A362

For detail about the change please read product note 409

**130B1071** [🔗](#)**6 Kutuplu Konektör, FC serisi, (10 adet)****6-pole spring cage connectors 10 pcs**

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

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Yedek parçalar

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

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

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

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

VOC measuring range: 0...100 % air quality; referred to calibrating gas & selection of VOC sensitivities (low/medium/high)

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

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

CO2 measuring range: 0...5000 ppm

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

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

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

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

T2-IP65 plastic housing two M20 cable glands

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

Services

**130R1153****DrivePro Extended Warranty Servis Bayisi**

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

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Services



130R1156 [🔗](#)

DrivePro Extended Warranty Servis Bayisi

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.



130R1152 [🔗](#)

DrivePro ExWarr Work Shop PG06 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.



130R1154 [🔗](#)

DrivePro Extended Warranty Servis Bayisi

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.



130R1155 [🔗](#)

DrivePro Extended Warranty Servis Bayisi

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.



130R1151 [🔗](#)

DrivePro Extended Warranty Servis Bayisi

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.



130R1150 [🔗](#)

DrivePro Extended Warranty Servis Bayisi

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

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Services

**130R1157** [🔗](#)**DrivePro Extended Warranty Servis Bayisi**

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.

**130R1158** [🔗](#)**DrivePro Extended Warranty Servis Bayisi**

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.

**130R1057** [🔗](#)**DrivePro ExWarr Onsite PG06 66 months**

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

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

**130R1056** [🔗](#)**DrivePro Extended Warranty sahada 60 ay**

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.

**130R1050** [🔗](#)**DrivePro Extended Warranty sahada 24 ay**

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.

**130R1058** [🔗](#)**DrivePro Extended Warranty sahada 72 ay**

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

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

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Services

**130R1055** [🔗](#)**DrivePro Extended Warranty sahada 54 ay**

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.

**130R1053** [🔗](#)**DrivePro Extended Warranty sahada 42 ay**

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.

**130R1054** [🔗](#)**DrivePro Extended Warranty sahada 48 ay**

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.

**130R1052** [🔗](#)**DrivePro Extended Warranty sahada 36 ay**

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.

**130R1051** [🔗](#)**DrivePro Extended Warranty sahada 30 ay**

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.

**130R1325** [🔗](#)**DriveProStart-UP ctrl. IFT test medium**

DrivePro Start-Up Control interface testing medium frame unit

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Services

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

DrivePro Start-Up special applications medium frame unit

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

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

The following benefits can be gained:

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

Before DrivePro® Start-up can be implemented, the AC drive must be installed and ready for operation. The entire system must be fully operational under normal operation conditions. Installation of the drive is not included in this package. Commissioning needs to take place during the standard working hours.

General Terms and Conditions of Delivery and Warranty apply.

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

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

The following benefits can be gained:

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

Before DrivePro® Start-up can be implemented, the AC drive must be installed and ready for operation. The entire system must be fully operational under normal operation conditions. Installation of the drive is not included in this package. Commissioning needs to take place during the standard working hours.

General Terms and Conditions of Delivery and Warranty apply.

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

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Services

Image
coming
soon

130R1199 [↗](#)

DrivePro Site Assessment

investments.

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

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



136N4083 [↗](#)

FC-102N160T4E20H4UGCXXXSXXXAXBXCXXXXX

Frekans Kvertörü

FC-102N160T4E20H4UGCXXXSXXXAXBXCXXXXX

VLT® HVAC Drive FC-102

(N160) 160 KW / 250 HP, Trifaze

380 - 480 VAC, IP 20 / Şasi

RFI sınıfı A1 (C2)

Fren kesici +Güvenli duruş

Grafik Lokal Kontrol Panel

Kaplamalı PCB, Şebeke Seçeneği yok

Son sürüm std. yazılım

Kasa Boyutu: D3H

C1 opsiyonu yok, D seçeneği yok

A Seçeneği Yok, B Seçeneği Yok

Model Koduna göre diğer seçenekler

Model kodu: FC-102N160T4E20H4UGCXXXSXXXAXBXCXXXXX

VLT® HVAC Drive, havalandırma, ısıtma ve soğutma uygulamalarına yöneliktir. Geniş kapsamlı güçlü standart ve isteğe bağlı özellikleri ile bu sürücü en düşük genel maliyeti sağlar.

Image
coming
soon

130R1348 [↗](#)

DrivePro Remote Monitoring - Annual Fee

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