



The entire series is designed for use with a control panel that is removable and remote controllable via RS232. The panel is supplied as standard in the IP54 version.

## VFD

### VFD variable frequency drives

The new range of variable frequency drives with single-phase/three-phase power supply and three-phase output for all variable capacity applications.

Designed to respond to the requirements of:

- variable speed of fans in air handling systems;
- modulation of compressor operation;
- variable flow-rate of system supply pumps and evaporator pumps on chillers;
- control of condensing pressure in fan assemblies.

CAREL proposes a range of compact NXL drives, available with power ratings from 0.37 to 30 kW. Their "book-like" design, index of protection and EMC levels make the NXL drives the ideal solution for all operating environments.

Control can be implemented by:

- 0 to 10V or 4 to 20 mA analogue signal;
- Modbus® on RS485 serial communication as standard.

The CAREL NXL VFD is based on a modular design concept.

The drive can be supplied with or without the control panel, with or without boards and with different index of protection, IP20 for the small sizes MF2 and MF3, IP21 and IP54 for the larger sizes MF4-MF6.

A range of I/O expansion and fieldbus boards is also available.

## General features

- single-phase version, 208 to 240 V power supply, 0.37 kW to 1.5 kW;
- three-phase version, 380 to 500 V power supply, 0.55 kW to 30 kW;
- variable dimensions on 5 frames from MF2 to MF6 in the different power ratings;
- optional control panel, easy to use, with 4 buttons and multilanguage LCD display;
- settable control signal, 0 to 10 V or 4 to 20 mA;
- Modbus<sup>®</sup> serial interface over RS485 as standard;
- optional serial interface for: PROFIBUS DP, LonWorks<sup>®</sup>, PROFIBUS DP (D9 connector), CANopen (Slave), DeviceNet, METASYS<sup>®</sup> N2 (D9 connector);
- vast range of accessories:
  - kit assembly flange, FR4-FR6 for sizes MF4-MF6;
  - RFI filters;
  - choke filters;
  - remote control panels via RS232.

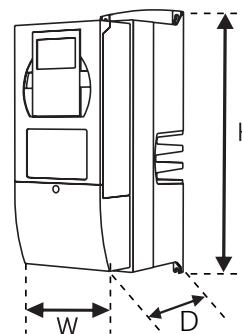
## Codes

code	power supply voltage	current A	rated power kW	IP	size
NXL000221N	Voltage: 208/240 V	02	0.37	IP20, No Emc	MF2
NXL000321N		03	0.75	IP20, No Emc	MF3
NXL000421N		04	1.1	IP20, No Emc	MF3
NXL000621N		06	1.5	IP20, No Emc	MF3
NXL000151N	Voltage: 380/500 V	01	0.55	IP20, No Emc	MF2
NXL000251N		02	0.75	IP20, No Emc	MF2
NXL000351N		03	1.1	IP20, No Emc	MF3
NXL000451N		04	1.5	IP20, No Emc	MF3
NXL000551N		05	2.2	IP20, No Emc	MF3
NXL000752H		07	3	IP21, with RFI filter	MF4
NXL000952H		09	4	IP21, with RFI filter	MF4
NXL001252H		12	5.5	IP21, with RFI filter	MF4
NXL001652H		16	7.5	IP21, with RFI filter	MF5
NXL002352H		23	11	IP21, with RFI filter	MF5
NXL003152H		31	15	IP21, with RFI filter	MF5
NXL003852H		38	18.5	IP21, with RFI filter	MF6
NXL004652H		46	22	IP21, with RFI filter	MF6
NXL006152H		61	30	IP21, with RFI filter	MF6
NXL000755H		07	3	IP54 with control panel, with RFI filter	MF4
NXL000955H		09	4	IP54 with control panel, with RFI filter	MF4
NXL001255H	12	5,5	IP54 with control panel, with RFI filter	MF4	
NXL001655H	16	7,5	IP54 with control panel, with RFI filter	MF5	
NXL002355H	23	11	IP54 with control panel, with RFI filter	MF5	
NXL003155H	31	15	IP54 with control panel, with RFI filter	MF5	
NXL003855H	38	18,5	IP54 with control panel, with RFI filter	MF6	
NXL004655H	46	22	IP54 with control panel, with RFI filter	MF6	
NXL006155H	61	30	IP54 with control panel, with RFI filter	MF6	

## Accessories

code	description
NXARF08500	RFI-0008-5-1 RFI EMC filters, 08 Amp., Voltage: 400V
NXARF13200	RFI-0013-2-1 RFI EMC filters, 13 Amp., Voltage: 230 V
NXARF12200	RFI-0012-2-1 RFI EMC filters, 12 Amp., Voltage: 230 V
NXALR03500	LRF-0003-5-1 LRF 03 choke EMC filters, Voltage: 400V
NXALR05200	LRF-0005-2-1 LRF 05 choke EMC filters, Voltage: 230 V
NXATHR4000	THR-FR4 flange mounting kit MF4 IP21
NXATHR5000	THR-FR5 flange mounting kit MF5 IP21
NXATHR6000	THR-FR6 flange mounting kit MF6 IP21
NXATHR7000	THR-FR4-54 flange mounting kit MF4 IP54
NXATHR8000	THR-FR5-54 flange mounting kit MF5 IP54
NXATHR9000	THR-FR6-54 flange mounting kit MF6 IP54
NXAPANC000	LCD control keypad
NXAPANR000	RS232 serial interface

## Dimensions (mm)



size	WxD
MF2	60x130x150
MF3	84x220x172
MF4	128x292x190
MF5	144x391x214
MF6	195x519x237