

1. Product range

Unidrive-M, Commander, Digitax HD and derivative products, variable speed AC motor drives

2. Name and address of the manufacturer and authorised representative

Manufacturer	Authorised representative in the EU
Nidec Control Techniques Ltd. The Gro Newtown Powys SY16 3BE UK Registered in England and Wales. Company Reg. No. 01236886	Nidec Netherlands B.V. Kubus 155 3364 DG Slidrecht Netherlands.

3. Responsibility

This declaration is issued under the sole responsibility of the manufacturer.

4. Object of the declaration

Model No.	Interpretation	Model number nomenclature aaaa - bbc ddddde
aaaa	Basic series	C200, C300, M100, M101, M200, M201, M300, M400, M600, M700, M701, M702, M608 M708, M709, M750, M751, M752, M753, M754, M880, M881, M882, M888, M889, E200, E300, F300, F600, H300, HS70, HS71, HS72, M000, RECT
bb	Frame Size	01, 02, 03, 04, 05, 06, 07, 08, 09, 11, 12
c	Voltage Rating	1 = 100 V, 2 = 200 V, 4 = 400 V, 5 = 575 V, 6 = 690 V
dddd	Current Rating	Example 01000 = 100 A
e	Drive Format	A = 6P Rectifier + Inverter with internal choke, D = Inverter, E = 6P Rectifier + Inverter, T = 12P Rectifier + Inverter

5. Installation requirements

These products are Basic Drive Modules, intended to be used with motors, controllers, electrical protection components and other equipment to form Power Drive Systems. Compliance with safety and EMC regulations depends upon installing and configuring the drive modules correctly.

The drives must be installed only by professional installers who are familiar with requirements for safety and EMC. Refer to the Safety information and Installation instructions supplied with the drive. The installer is responsible for ensuring that the Power Drive System complies with all applicable laws in the country where it is to be used.

6. Declaration

When installed in accordance with the instructions in the User Guide, the products covered by this declaration meet the requirements for protection in BS EN 60364-4-41 / DIN VDE 0100-410 and DIN VDE 0100-530, using the Protective measure: Automatic disconnection of supply.

In the event of a short-circuit with negligible impedance to a protective conductor or to earth, the protective devices will reduce the output voltage within the time required by BS EN 60364-4-41, Table 41.1 or within 5 seconds (depending on the rated current).

Drives are intended to be installed with a type B RCD/RCCB/ELCB where type B+ may also be suitable and is sensitive to all residual currents while also being equipped with a special tripping curve. Typically, the RCD/RCCB/ELCB should have a rated residual current of a maximum of 30mA for protection against contact or 300mA when used for fire protection as per DIN VDE 0100-530.

Note: If a variable speed drive is operated on an unearthed power supply (IT system), an insulation monitoring device (IMD) conforming to BS EN 61557-8 is required. This reports a first insulation fault with a visual and / or audible warning. If a second insulation fault occurs on another conductor, the system must be shut down by a circuit breaker. Consult the supplier of the drive for further details.

7. References

BS EN 60364-4-41 Ed 5.0 /A1 Amendment 1 - Low voltage electrical installations Part 4-41: Protection for safety - Protection against electric shock

DIN VDE 0100-410 (VDE 0100-410):2018-10 Errichten von Niederspannungsanlagen – Teil 4-41: Schutzmaßnahmen – Schutz gegen elektrischen Schlag (Protection by automatically switching off the power supply)

DIN VDE 0100-530 VDE 0100-530:2018-06 Niederspannungs-Elektroinstallationen Teil 530: Auswahl und Montage elektrischer Betriebsmittel – Schaltgeräte und Betriebsgeräte (Low-voltage electrical installations Part 530: Selection and installation of electrical equipment - switching devices and operating devices)

8. Responsible person



Jon Holman-White
Vice President, Research and Development
Nidec Control Techniques Ltd
Date: 25th February 2025
Newtown, Powys, UK.