

1. Product model

Unidrive M300, M400 and HS30 incorporating a Safe Torque Off (STO) function used as a safety component of a machine.

Only the Safe Torque Off function may be used as a safety function of a machine.

2. Name and address of the manufacturer and authorised representative

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

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

4. Object of the declaration

Model No.	Interpretation	Nomenclature aaaa - bbc dddde
aaaa	Basic series	M300, M400, HS30
bb	Frame Size	01, 02, 03, 04, 05, 06, 07, 08, 09
c	Voltage Rating	1 = 100 V, 2 = 200 V, 4 = 400 V, 5 = 575 V
dddd	Current Rating	Example 01000 = 100 A
e	Drive Format	A = 6P Rectifier + Inverter with internal choke

The model number may be followed by additional characters that do not affect the ratings.

5. Declaration

The object of the declaration is in conformity with the relevant European Union harmonisation legislation.

Machinery Directive (2006/42/EC)

Electromagnetic Compatibility Directive (2014/30/EU)

Type examination has been carried out by the following notified body:

TUV Rheinland Industrie Service GmbH, Am Grauen Stein, D-51105 Köln, Germany

Notified body identification number: 0035

EC type-examination certificate numbers:

Frame sizes 1 to 4: 01/205/5383.04/20 dated 2020-06-23

Frame sizes 5 to 9: 01/205/5387.03/20 dated 2020-06-23

6. References to the relevant harmonised standards used

The variable speed drive products listed above have been designed and manufactured in accordance with the following European harmonised standards:

EN 61800-5-2:2016	Adjustable speed electrical power drive systems - Part 5-2: Safety requirements – Functional
EN 61800-5-1:2016 (in extracts)	Adjustable speed electrical power drive systems - Part 5-1: Safety requirements - Electrical, thermal and energy
EN 61800-3: 2004 + A1: 2012	Adjustable speed electrical power drive systems - Part 3: EMC requirements and specific test methods
EN ISO 13849-1:2015	Safety of Machinery, Safety-related parts of control systems, General principles for design
EN 62061:2005 + AC: 2010 + A1: 2013 + A2: 2015	Safety of machinery, Functional safety of safety related electrical, electronic and programmable electronic control systems
EN 61508 Parts 1 - 7:2010	Functional safety of electrical/ electronic/programmable electronic safety-related systems

7. Signed for and on behalf of:

Person authorised to complete the technical file: Authorised representative (see details above)

DoC authorised by:



Date:

Jon Holman-White, Vice President, Research and Development.
1st January 2021, Newtown, Powys, UK



EU Declaration of Conformity

IMPORTANT NOTICE

These electronic drive products are intended to be used with appropriate motors, controllers, electrical protection components and other equipment to form a complete power drive system (PDS).

It is the responsibility of the installer to ensure that the design of the system and machine, including its safety-related control system, is carried out in accordance with the requirements of the Machinery Directive and any other relevant legislation.

The use of a safety component does not ensure the safety of the machine.

Compliance with safety and EMC regulations depends upon installing and configuring drives correctly, including using the specified input filters.

The drive must be installed only by professional installers who are familiar with requirements for safety and EMC.

The assembler is responsible for ensuring that the final product or system complies with all relevant laws in the country where it is to be used. For more information regarding Safe Torque Off, refer to the Product Documentation.