

1. Product range

Unidrive-M, Commander, Digitax HD and derivative products. Adjustable speed AC motor drives, including option modules and accessories.

2. Name and address of the manufacturer

Nidec Control Techniques Ltd
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3. Responsibility

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

4. Object of the declaration

Variable speed drives

Model No.	Interpretation	Model number nomenclature aaaa - bbc ddddde
aaaa	Basic series	C200, C300, M100, M101, M200, M201, M300, M400, M600, M608, M700, M701, M702, M708, M709, M750, M751, M753, M754, M880, M881, M882, M888, M889, E300, E301, F300, F600, H300, HS30, HS70, HS71, HS72, M000, RECT
bb	Frame Size	01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 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

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

5. Required voltage sag immunity

Sag depth	Duration 50Hz	Duration at 60Hz	Standard
0%		1 Cycle	IEC 61000-4-11 / IEC 61000-4-34
40%	10 Cycles	12 Cycles	IEC 61000-4-11 / IEC 61000-4-34
50%	10 Cycles	12 Cycles	SEMI F47-0706
70%	25 Cycles	30 Cycles	IEC 61000-4-11 / IEC 61000-4-34
80%	50 Cycles	60 Cycles	SEMI F47-0706
80%	250 Cycles	300 Cycles	IEC 61000-4-11 / IEC 61000-4-34

Testing to SEMI F47-0706 has not specifically been undertaken, compliance offered based on the more severe test conditions required by IEC 61000-4-11 / IEC 61000-4-34.

6. Declaration of conformity

The models shown above conform to SEMI F47-0706, Specification for Semiconductor Processing Equipment Voltage Sag Immunity. The drives may not perform at full rated power during interruptions. It is possible to configure the drives to recover operation without operator and/or host controller intervention. It is possible to configure the drives to send signals to the equipment host controller indicating when full rated operation is not achieved. These electronic drive products are intended to be used with appropriate motors, controllers, electrical protection components and other equipment to form complete end products or systems.

Starts per hour by interrupting the AC supply

20 maximum, equally spaced.

Start-up time

This is the time taken from the moment of applying power to the drive, to the drive being ready to run the motor. For faster start up time a 24V backup supply can be used. Refer to the power installation guide.

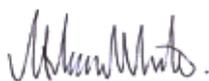
Frame sizes 1 to 6: 2.5 s

Frame sizes 7 to 12: 5 s

7. References to the relevant harmonised standards used

SEMI F47-0706 (Reapproved 0812)	Specification for Semiconductor Processing Equipment Voltage Sag Immunity
EN 61800-3: 2018	Adjustable speed electrical power drive systems Part 3: EMC requirements and specific test methods
EN 61000-4-11:2004+ A1:2017	Electromagnetic compatibility (EMC), Part 4-11: Testing and measurement techniques Voltage dips, short interruptions and voltage variations immunity tests
EN 61000-4-34:2007 + A1:2009	Electromagnetic compatibility (EMC) Part 4-34: Testing and measurement techniques -Voltage dips, short interruptions and voltage variations immunity tests for equipment with mains current more than 16 A per phase

8. Signed for and on behalf of:



Jon Holman-White
Vice President of Technology
Nidec Control Techniques Ltd.
Date: 04th December 2025
Newtown, Powys, UK.