



# Unidrive M300 Safety onboard

## Integrated safety and flexible communications

0.25 kW - 132 kW (0.33 hp - 175 hp)  
100 V | 200 V | 400 V | 575 V | 690 V

When it comes down to safety, failure is unacceptable. Yet equipment is often more complex than it needs to be.

Unidrive M300 provides a cost effective approach to safety. It features a dual Safe Torque Off (STO) input, certified to SIL3/PLC safety rating and compliant with EN/IEC 61800-5-2.

As all the work is done inside the drive, no additional parts are needed. When a machine trips, the STO stops the motor from producing torque, preventing accidental start up. A simple solution to a serious problem.



CONTROL TECHNIQUES™

**Nidec**  
All for dreams

# Unidrive M300

## Flexible connectivity

Connect with many of the common fieldbuses using the modular 'SI' interface port. It can communicate with Ethernet, EtherCAT, PROFINET, PROFIBUS, CANopen and DeviceNet. The AI-485 Adaptor option can also connect to RS485 networks using Modbus RTU.

## Increase your productivity

To get the most out of your drives, we've developed the Unidrive M Connect tool. It's designed to aid productivity when commissioning, optimizing and monitoring drive/system performance.

## More control. No extra cost

If you're using an external PLC in your machinery, you'll know that extra functionality comes at a price. Our integrated PLC is included at no extra cost.

## Easy to setup

Introducing our most user-friendly drive yet. We designed it to make installation simple and quick. All the parameters you need to get started are on the front of the drive. For everything else, there's the step by step guide that comes in the box.

Save even more time by transferring settings before you install the drive. All you need is our AI-Backup module or AI-Smart Adaptor, and a 24V power supply.

<b>Safe</b>  <b>Dual</b>  safe torque off	<b>Flexible</b> Connects to over <b>7</b> common protocols	<b>Robust</b>  <b>180% (30s) / 150% (60s)</b>  overload
<b>Made to last</b>  <b>up to 5 years extended warranty</b>	<b>Simple to use</b>  Running in <b>4 steps</b>	<b>Online support</b>  <b>1-Click</b>  www.drive-setup.com

## A reliable workhorse

Our drives keep your machines running, even in the toughest environments. That means working to international standards IEC60068-2-60 to levels defined by IEC721-3-3 2C3.

## Technology you can trust

By the time they're shipped, we'll have tested our drives up to forty times. Giving you the confidence to fit our drives without the worry of premature failure.

Discover more at: [www.UnidriveM.com](http://www.UnidriveM.com)

## Drive specifications

Open loop vector or V/Hz	✓
Open loop rotor flux control (RFC-A)	✓
Analogue Inputs / Outputs	2/1
Digital Inputs / Outputs / Bidirectional I/O	4/0/1
Relay Output <sup>1</sup>	1
Safe Torque Off	2
Onboard PLC	✓
RS485 comms Modbus RTU <sup>2</sup>	✓
Cloning via SD card <sup>3</sup>	✓

<sup>1</sup> Configurable

<sup>2</sup> Requires AI-485 Adapter

<sup>3</sup> Requires AI-Backup Adapter



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