CONTROL TECHNIQUES

500 KW DRIVE

EXTREME POWER,
ENGINEERED TO FITYOUR WORLD

315 kW to 500 kW | Up to 865 A

380 to 480 VAC (± 10%)
500 to 575 VAC (± 10%)
500 to 690 VAC (± 10%)

500 kW Drive Highlights

- A single installer can handle wiring and connection using comprehensive accessories
- Under 30 minutes for one engineer to replace the drive using service accessories
- During service, factory-tested sub-assemblies can be exchanged on site without returning the drive to base
- Wider front face design and lower centre of gravity provide greater physical stability and safety during installation
- Always smaller than an existing drive when retrofitting, so will always fit space available
- Fixed lifting points on the chassis (no additional brackets required) for safe handling
- No additional chokes are required for the vast majority of applications

500 KW DRIVE VARIANTS

Available with a control stage to suit any application:

- Industrial automation systems based upon induction or servo motors, where control dynamics are key
- HVAC/R systems where dedicated drive features provide overall system control
- 500 kW supports the latest high-efficiency motors to maximise return on investment and minimise impact on the environment

Select from:

Unidrive M700, M701, M702, Pump Drive F600 or HVAC Drive H300

M700		**Ethernet**	• Onboard real-time multi-protocol Ethernet • 1 x Safe Torque Off (STO) certified to SIL3/PLe • Analogue and digital I/O
M701		**Unidrive SP replacement**	Designed to match Control Techniques' highly popular Unidrive SP feature-set. • Modbus RTU over RS485 communications • 1 x STO certified to SIL3/PLe • Analogue and digital I/O
M702		**Safety enhanced**	• Onboard real-time multi-protocol Ethernet • 2 x STO certified to SIL3/ PLe • Digital I/O - If Analogue I/O is required, this can be provided by an SI-I/O option module
F600		**Pumping**	• Dedicated, specialist pump drive delivers precise, dependable flow control • Comprehensive pump protection and energy saving features significantly reduce total cost of ownership
H300		**HVAC**	• Dedicated, specialist HVAC drive optimised for fan and compressor applications • Modbus RTU and BACnet MS/TP communications provide seamless integration with Building Automation Systems

Please refer to the individual product data sheets for key information

Output frequency

500 kW drives have a maximum output frequency of 599Hz and are, therefore, not subject to special export controls.

DIMENSIONS

Width	Height	Depth
295mm	1750mm	526mm

Documentation & Downloads

Product documentation and PC tools available for download from:
www.controltechniques.com/support

DRIVE RATINGS AND ORDERING INFORMATION

	Order Code Start	No Overload			Normal Duty (110% Overload)				Heavy Duty (140% Overload)			
		Max, Cont. Output Current	Motor Shaft Power		Max Cont. Current	Peak Current	Motor Shaft Power		Max Cont. Output Current	Peak Current	Motor Shaft Power	
		A	kW	hp	A	A	kW	hp	A	A	kW	hp
400 V	M000-12404800	635	315	500	608	668	315	500	480	672	250	400
	M000-12405660	689	355	550	660	726	355	550	566	792	315	450
	M000-12406600	788	450	650	755	831	400	650	660	924	355	550
	M000-12407200	903	500	700	865	952	500	700	720	1008	400	600
575 V	M000-12503150	375	250	350	360	396	250	350	315	441	250	350
	M000-12503600	426	300	400	410	451	300	400	360	504	250	350
	M000-12504100	479	330	450	460	506	330	450	410	574	300	400
	M000-12504600	530	370	500	510	561	370	500	460	644	330	450
690 V	M000-12603150	375	355	550	360	396	355	550	315	441	280	500
	M000-12603600	426	400	600	410	451	400	600	360	504	355	550
	M000-12604100	479	450	650	460	506	450	650	410	574	400	600
	M000-12604600	530	500	700	510	561	500	700	460	644	450	650

NOTES: **Internal 125 kW brake chopper included as standard**
Continuous currents at 2 kHz switching frequency
40°C ambient

Order Code Finish	Format
...TU0100AB100	AC to AC
...DU0100AB100	DC to AC

Part No. 0781-0575-01 05/21