

500 kW / 700 hp Power Module



250 kW to 500 kW | Up to 865 A

380 to 480 VAC ($\pm 10\%$)

500 to 575 VAC ($\pm 10\%$)

500 to 690 VAC ($\pm 10\%$)

500 kW Drive Highlights

- A single installer can handle wiring and connection using comprehensive accessories
- Under 30 minutes to replace the drive
- 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 many of the applications

Drive variants

Available with a control stage to suit any application (purchased separately):

- Industrial automation systems based upon induction or permanent magnet 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		RS-485 (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	• 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 599 Hz and are, therefore, not subject to special export controls.

Dimensions

Width	Height	Depth
295mm (11.61 in)	1750mm (68.90 in)	526mm (20.71 in)

Documentation & Downloads

Product documentation and PC tools available for download from:

www.controltechniques.com/support





Drive ratings and ordering information

	Order Code Start	Normal Duty (110% Overload)				Heavy Duty (140% Overload)			
		Max Cont. Current	Peak Current	Motor Shaft Power		Max Cont. Output Current	Peak Current	Motor Shaft Power	
		A	A	kW	hp	A	A	kW	hp
400 V	M000-12404800	608	668	315	500	480	672	250	400
	M000-12405660	660	726	355	550	566	792	315	450
	M000-12406600	755	831	400	650	660 ²	924	355	550
	M000-12407200	865 ¹	952	500	700	720 ³	1008	400	600
575 V	M000-12503150	376	396	250	350	315	441	250	350
	M000-12503600	428	451	300	400	360	504	250	350
	M000-12504100	480	506	330	450	410	574	300	400
	M000-12504600	532	561	370	500	460	644	330	450
690 V	M000-12603150	376	396	355	550	315	441	280	500
	M000-12603600	428	451	400	600	360	504	355	550
	M000-12604100	480	506	450	650	410	574	400	600
	M000-12604600	532	561	500	700	460	644	450	650

NOTES: Internal 125 kW brake chopper included as standard

Order Code Finish Format

...TU0100AB100 AC to AC

...DU0100AB100 DC to AC

Note¹: 110 % Overload at 30°C and below and No Overload above that.

Note²: 140 % Overload at 35°C and below and 125% above that.

Note³: 140 % Overload at 30°C and below and 125% above that.

