

Mentor II Digital DC Drive 25A - 1850A



- Comprehensive product range from 25A to 1850A
- Phase insensitive
- Regenerative and Non-Regenerative models available
- Built in Field Controller (M25 - M210R)
- 12 pulse solutions for reduced harmonics
- Self tuning current loop
- Built in RS485 communications port
- High Speed data communications available including CT Net, Profibus-DP, Interbus S and DeviceNet
- Programmable Applications module available (MD29)



**CONTROL
TECHNIQUES**

OVERVIEW

Mentor II is the latest version of Control Techniques most advanced digital DC drive. A fully programmable drive providing tremendous flexibility for systems integration. It has an impressive range of features giving fast and straightforward system set-up. Easy to use system features include programmable analogue and digital I/O, Digital Slaving and Taper Current Limits. Other advanced functions include Field Control, Serial Communications and Programmable Thresholds.

DC Drives are widely used in applications requiring Regeneration, Dynamic Performance and Constant Torque or Power over wide speed ranges. Providing reliable mature and low cost technology.

FIELD BUS COMMUNICATIONS

These easy fit expansion boards mean that Mentor II has the flexibility to match most FieldBus requirements. Options available cover CT Net, Profibus-DP, Interbus-S and DeviceNet

MD29 APPLICATIONS MODULE

The most powerful plug-in applications module available to systems designers. This module is available with applications software for Digital Lock, Winder, 'S' Ramp and Orientation. Custom programs are virtually unlimited and the applications module can locally control all actions of the drive, so reducing PLC requirements.

MENTORSOFT SOFTWARE

Quick and easy set up of Mentor II can now be achieved using Mentorsoft software. This Windows based programming tool provides engineers with an environment to speed up software development and reduce commissioning times. Once applications have been developed files can be saved to disk then loaded into other Mentor drives for fast efficient cloning.

DRIVE TYPE & MODEL		Typical* ratings				Maximum continuous current rating DC	
Single Quadrant	Four Quadrant	at 400V (armature)		at 500V AC		input A	output A
		kW	HP	kW	HP		
M25	M25R	7.5	10	9	12	21	25
M45	M45R	15	20	19	25	38	45
M75	M75R	30	40	38	50	60	75
M105	M105R	37.5	50	47	63	88	105
M155	M155R	56	75	70	94	130	155
M210	M210R	75	100	94	126	175	210
M350	M350R	125	168	156	209	292	350
M420	M420R	150	200	188	252	350	420
M550	M550R	200	268	250	335	460	550
M700	M700R	250	335	313	420	585	700
M825	M825R	300	402	375	503	690	825
M900	M900R	340	456	425	570	750	900
M1200	M1200R	450	603	563	755	1000	1200
M1850	M1850R	750	1105	938	1258	1540	1850

*MOTOR RATING MAY BE INCREASED AT HIGHER ARMATURE VOLTAGES.

System Expansion Options

- I/O Box
- FXM5 Field Controller - 20A
- MD29 Applications Card
- MD29AN C.T. Net interface
- MD24 Profibus interface
- MD25 DeviceNet interface
- MD-IBS Interbus-S interface

Drive Programming

- MentorSoft
- DPL
- SYPT

TYPICAL APPLICATIONS / INDUSTRIES

- LIFT/CRANE CONTROL
- CABLE LAYING
- CONTROL OF ROLLER TABLES
- PACKAGING MACHINE CONTROL
- METAL PROCESSING
- PAPER
- FOOD
- STEEL
- WIRE & CABLE
- PLASTICS

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