



## MD65 COMPETITIVE COMPARISON

Feature	MD60	MD65	SP600	TB Woods EF1	Yaskawa V7	AC Tech MC3000
<b>HP Range by voltage</b>						
115V	Fractional to 1HP	Fractional to 1.5HP		Fractional to 1HP		Fractional to 1.5HP
230V single phase	Fractional to 2HP	Fractional to 3HP	Fractional to 5HP	Fractional to 2HP	Fractional to 5HP	Fractional to 15HP
230V three phase	Fractional to 5HP	Fractional to 10HP	Fractional to 10HP	Fractional to 5HP	Fractional to 10HP	1 to 60HP
460V	Fractional to 5HP	Fractional to 10HP	Fractional to 100HP	Fractional to 5HP	Fractional to 10HP	1 to 60HP
575V			Fractional to 20HP			
Overload rating	150% 1 minute	150% 1 minute	110% 1 minute	110% 1 minute	150% 1 minute	150% 1 minute
NEMA 1 / IP30	Kit Option	Kit Option	●	●	NEMA 1/ IP20	●
NEMA 4			●		NEMA 4X/ IP66	●
EMC Filtering	Internal - 1ø, External - 3ø	Internal - 1ø, External - 3ø	Internal		External - 1ø, External - 3ø	
DIN Rail Mounting Standard	●	● (B frame only)				
Internal DB Transistor	● 0.75 kW (1 HP) and up	● 0.75 kW (1 HP) and up	●	●	●	
Drive mounted Display	LED	LED	LCD	LED	LED	LCD
Keypad - Remote LCD	●	●	●			●
Scalable User Display		●	●	●		●
Parameter R/W Password			●			●
CopyCat function	Keypad/ VS Utilities	Keypad/ VS Utilities	VS Utilities		Keypad	
Control Type	V/Hz	Sensorless Vector / V/Hz	Sensorless Vector / V/Hz	Voltage PWM	Sensorless Vector / V/Hz	V/Hz
Preset Speeds	4	8	8	8	16	4
Skip Frequency		● 1 skip frequency	●	● 3 skip frequencies	● 3 skip frequencies	● 2 skip frequency
Flying Start	●	●	●			●
Auto Restart	●	●	●	●	●	●
PID Process Control Loop		●	●	●	●	●
Timer, Counter Functions		●				
Step Logic Functionality		●				
<b>I/O</b>						
Fixed Discrete Inputs	3 -- 24V sink/source	3 -- 24V sink/source		1 -- 24V sink/source	24V sink/source	1 -- 24V
Discrete Inputs	3 dedicated inputs for Start, Stop and Reverse 2 fully programmable	3 dedicated inputs for Start, Stop and Reverse 4 fully programmable	6 fully programmable 24V sink/source	1 dedicated input for Start 4 fully programmable	7 fully programmable	1 dedicated input for Start 4 fully programmable
Discrete Output	1 - N.O./N.C. dry contact	1 - N.O./N.C. dry contact 2 - optocoupler outputs	2 - N.O./N.C. dry contact	1 - N.O./N.C. dry contact 1 - N.O. dry contact	1 - N.O./N.C. dry contact 2 - optocoupler outputs	1 - N.O./N.C. dry contact 2 - optocoupler outputs
Analog Inputs	1 - Unipolar	1 - Bipolar 0-10v 1 - 4 -20 mA	2 - Bipolar	1 - 0-10V or 4 - 20mA 1 - 0-10v	1 - Unipolar , 1 - Pulse train	1 - 0-10v 1 - 4 -20 mA
Analog Output		● 0-10v or 4-20mA	●	● 2 - outputs	●	● 0-10v
<b>Communications</b>						
Integral RS485	●	●			●	●
DeviceNet		●	●			
EtherNet		(Future)	●			
Profibus		(Future)	●			
ControlNet			●			
InterBus-S			●			
Modbus	Built-in (std)	Built-in (std)	(Future)	●	Built-in (std)	Built-in (std)