



SP600 NEMA 4X/12 COMPETITIVE COMPARISON

Feature	SP600	SP500	GV3000	TB Woods WFC	TB Woods WF2	Yaskawa V7X	Baldor 15H
HP Range by voltage							
115V		1 HP @ 115Vout		Fractional to 1HP			
230V single phase			Fractional to 2HP	Fractional to 2HP	Fractional to 3HP	Fractional to 5HP	Fractional to 10HP
230V three phase	Fractional to 10HP	Fractional to 5HP	Fractional to 5HP	Fractional to 25HP	Fractional to 20HP	Fractional to 10HP	Fractional to 15HP
460V	Fractional to 20HP	Fractional to 10HP	Fractional to 5HP	Fractional to 75HP	Fractional to 20HP	Fractional to 15HP	Fractional to 20HP
575V	Fractional to 20HP	Fractional to 10HP			Fractional to 20HP		Fractional to 20HP
Overload rating	110% 1 minute	150% 1 minute	150% 1 minute	150% 1 minute	150% 1 minute	150% 1 minute	150% 1 minute
NEMA 4	●	●	●	●	●	NEMA 4X/ IP66	NEMA 4X
EMC Filtering	Internal	External	Internal/External	External - voids U/L		External - 1ø, External - 3ø	Input reactor recommended
Internal DB Transistor	●		●	●	●	●	●
Drive mounted Display	LCD	LED	LCD	LCD	LCD	LED	LCD 2 lines x 16 characters
Keypad - Remote LCD	●		Optional	Requires option board	●		●
Scalable User Display	●	●	●	●	●		●
Parameter R/W Password	●	●	●	●	●		●
CopyCat function	VS Utilities		CS3000			Keypad	
Control Type	Sensorless Vector / V/Hz	V/Hz.	V/Hz, SVC, FVC	V/Hz	Sensorless Vector / V/Hz	Sensorless Vector / V/Hz	V/Hz
Preset Speeds	8	3	8	6	7	16	15
Skip Frequency	●	● 1	● 3 skip frequencies	● 4 skip frequencies	● 5 skip frequencies	● 3 skip frequencies	● 3 skip frequencies
Flying Start	●	●	●	●	●		●
Auto Restart	●	●	●	●	●	●	●
PID Process Control Loop	●		●	Requires option board	●	●	●
Timer, Counter Functions				●	●		
Step Logic Functionality					●		
I/O							
Fixed Discrete Inputs		1		(10) fixed at 24V	3 -- 24V sink/source	24V sink/source	
Discrete Inputs	6 fully programmable 24V sink/source	4 fully programmable 24V sink	8 24V 3 fully programmable		3 dedicated input for Start 7 fully programmable	7 fully programmable	9 assignable
Discrete Output	2 - N.O./N.C. dry contact	1 - N.O./N.C. dry contact	4 - N.O./N.C. dry contact	1 - N.O./N.C. dry contact	2 - N.O./N.C. dry contact 4 Open Collector	1 - N.O./N.C. dry contact 2 - optocoupler outputs	2 - N.O./N.C. dry contact 2 - optocoupler outputs
Analog Inputs	2 - Bipolar	1	1 std	●	2 - 0-10V or 4 - 20mA Pulse train	1 - Unipolar , 1 - Pulse train	2 - 0-10V, 0-5V or 4 - 20mA
Analog Output	●	● 1 std	● 1 std	●	● 2 - outputs	●	● 2 - outputs
Communications							
Integral RS485				●		●	
DeviceNet	●		●		●	●	
EtherNet	●						
Profibus	●		●			●	
ControlNet	●		●				
InterBus-S	●		●				
Modbus	●		●		Built-in (std)	Built-in (std)	