



30 Years of Experiences in

# AC DRIVES



The brand you can trust  
The quality you can rely on  
And the services you are happy with

## TOPVERT Family

Series		S1				E1				G1				P1				H1								
Major Application		Micro Drive				Compact Drive				Multi-function Drive				Variable torque Drive				High speed Drive								
Series Options		Std*	-A	-B	-C																					
Power Source kW / Hp Range	100 ~ 120V, 1-Phase	0.2 ~ 0.75kW (0.25 ~ 1 Hp)				0.2 ~ 1.5kW (0.25 ~ 2Hp)				N/A				N/A				N/A								
	200 ~ 240V, 1-Phase	0.4 ~ 2.2 kW (0.5 ~ 3 Hp)				0.2 ~ 2.2kW (0.25 ~ 3Hp)				0.4 ~ 2.2kW (0.5 ~ 3Hp)				N/A				0.4 ~ 2.2kW (0.5 ~ 3Hp)								
	200 ~ 240V, 3-Phase	0.4 ~ 3.7 kW (0.5 ~ 5 Hp)				0.4 ~ 7.5kW (0.5 ~ 10Hp)				0.4 ~ 75kW (0.5 ~ 100Hp)				0.75 ~ 90kW (1 ~ 120Hp)				0.4 ~ 75kW (0.5 ~ 100Hp)								
	380 ~ 460V, 3-Phase	0.4 ~ 3.7 kW (0.5 ~ 5 Hp)				0.4 ~ 7.5kW (0.5 ~ 10Hp)				0.75 ~ 315kW (1 ~ 422Hp)				1.5 ~ 400kW (2 ~ 535Hp)				0.75 ~ 75kW (1 ~ 100Hp)								
	575 ~ 600V, 3-Phase	N/A				N/A				Under Developing																
<b>kW / Hp Ranges</b>																										
<b>kW</b>	0.2	0.4	0.75	1.5	2.2	3.7	5.5	7.5	11	15	18.5	22	30	37	45	55	75	90	110	132	160	200	220	250	315	400
<b>Hp</b>	0.25	0.5	1	2	3	5	7.5	10	15	20	25	30	40	50	60	75	100	120	150	175	215	268	300	335	422	535

Series		S1				E1	G1	P1	H1	
Series Options		Std*	-A	-B	-C					
<b>Input / Output / Interface</b>										
Multi -Function Analog Inputs and Speed Reference Inputs	Speed Dial Knob	Standard (By a Rotary Encoder with 0.01 Hz/Step Setting Resolution.)								
	0 ~ 10 VDC	N/A				Standard				
	4 ~ 20 mA	N/A				Standard				
	-10 ~ 10 VDC				N/A	Standard				
	Preset Speeds	N/A	2	4		16				
	Sink/Source Mode	N/A				Standard				
	RS-485	Option					Standard			
Multi -Function Analog Outputs	0 ~ 10 VDC	N/A		1		1 (option)	1			
	4 ~ 20 mA	N/A			1	1 (option)	1			
	+12 VDC for Speed Pot.	N/A				Standard				
	-12 VDC for Speed Pot.				N/A	Standard				
Digital Input (Programmable Input Terminals)	External Run Command Inputs	N/A				2 (FWD & REV)				
	Multi-Function Command Inputs	N/A	1	2	4	6				
Multi -Function Digital Output (Programmable Output Terminals)	Programmable Outputs	N/A	Standard (Programmable Status Indications (i.e. RUN, FAULT, At Speed...etc))							
	Form C Relay Output	N/A				1				
	Form A Relay Output		N/A			1 (Option)	1			
	Photo Coupler Open-collector Outputs		N/A		1	2 (Option)	2			
	+24 VDC Aux. Power Supply		N/A			Standard				
Keypad & Display Function	Display Type	6 Digits of 7 Segment Display and 6 LEDs								
	Frequency (Speed) Display					Standard				
	Motor Load Display					Standard				
	Motor Voltage Display					Standard				
	DC Bus Display					Standard				
	360 Deg. Rotary Encoder					Standard				
	Function Keys		6			8				
	Local/Remote Indication		Standard							
	Remote operation		N/A			Standard (Cable Length Up to 150 Meters)				
Serial communications	RS-485 port	Option					Standard			
	MODBUS Protocol	Standard (RTU and ASCII)								
Speed Feedback	Encoder Feedback Port		N/A			Option				



Series	S1			E1	G1	P1	H1
Series Options	Std*	-A	-B	-C			
<b>Specifications</b>							
Output Frequency Range	0 ~ 600Hz					0 ~ 6000Hz	
Output Frequency Resolution	0.01 Hz						
Overload Capability	150% (1 Minute)				125% (1 Minute)	150% (1 Minute)	
Torque Rating	Constant				Variable	Constant	
Control Method	SPWM (Sinusoidal Pulse Width Modulation) Switchable between V/F Mode and Sensorless Vector Control Mode						
Ambient Temperature	Operation: -10°C ~ +40°C . Storage: -20°C ~ +60°C						
Enclosure Type	IP20						
PWM Carrier Frequency	1kHz ~ 18kHz Adjustable. (1kHz/step)						
DIN Rail Mounting	Standard				N/A		
<b>Performance Features</b>							
PID Setpoint Control	Standard						
Slip Compensation	Standard (3 points with band width)						
Reverse Rotation	N/A					Standard	
Skip Frequency	Max. 3 points						
Accel/Decel Time	0.01 ~ 60000 Seconds (Independent Settings for Accel/Decel Time)						
DC Braking	Standard						
Auto Voltage Regulation (AVR)	Standard						
S-Curve Accel and Decel	Standard						
Fault Records	4						
Parameter Lock/Reset	Standard (Password protection)						
Auto Tuning	Standard						
Over-Voltage/Over-Current Stall Prevention	Standard						
Automatic Energy-Saving	Standard						
Reverse Inhibition	Standard						
PLC Run	Standard						
Auto-Restart	Standard						
Dynamic Braking	Option			Built-in in Frame Code: xx-A and xx-B. Others as an Option.			
Adjustable ACCEL/DECEL time	0.00 ~ 60000 seconds						
2nd Adjustable ACCEL/DECEL	Standard						
RE-START into Spinning Load	Standard						
Total Parameters no.	198				208		

\* "Std" means "Standard". N/A means Not Available

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