

SLANVERT

Variable Speed Drive



ENERGY EFFICIENCY

PRODUCT OVERVIEW

The Slanvert Hope 800 and SB70 series high-performance drive are engineered to high-precision rotor field vector control algorithm with the ability of controlling 290% instantaneous torque, providing high energy efficiency for your applications. Its internal components comprises of internationally known brands, such as our control digital signal processor (DSP), resulting in a quick-response and stable system. Coupled with multi-mode operation and programmable modules, it allows users to conform to their industrial challenges. The practical multi-speed selection function which includes binary code mode ,direct selection mode, sum mode and number mode is particularly applicable to heating & ventilation industry. The powerful process PID function includes two sets of PID parameters, and the parameters adopt multiple smooth transition modes. Its multiple correction modes for tension and synchronous control enable both Hope800 and SB70G to satisfy the requirements of various industries such as draw benches, textile, paper making and printing & dyeing and etc.



The SB150 series smart variable speed drive is a compact and lightweight inverter adopting the optimized high-performance space vector control VVVF arithmetic. The SB150 series has user friendly control panel with integrated potentiometer. The drives are feature delicate circuit design with simple and practical functions. It supports numerous advanced functions e.g. auto torque boost, slip compensation, oscillation suppression, tracking start-up, stall prevention and etc.

SLANVERT SB200 variable speed drive excels in delivering easy and comprehensive solutions for your water-pumping motor controls applications. It has advanced functions like automatic torque elevation, sliding compensation, oscillation suppression, stall prevention, dead zone compensation, PID control algorithm and automatic Voltage/frequency regulation. This integrating feature comes with constant-pressure water supply and clock module internally set. It can be applied to most industrial controls.



TECHNICAL SPECIFICATIONS

Input power supply 50/60 Hz (kW)	Hope 800	SB70	SB150	SB200
Single-phase 200V	-	0.55 ~ 2.2 kW	0.4 ~ 2.2 kW	-
Three-phase 200V	-	4 ~ 5.5 kW	0.4 ~ 2.2 kW	-
Three-phase 400V	0.4 kW ~ 375 kW	0.4 ~ 1650 kW	0.4 ~ 5.5 kW	1.5 ~ 400 kW
Three-phase 690V	-	11 ~ 1200 kW	-	-
Three-phase 1140V	-	55 ~ 1000 kW	-	-
Output power supply(U,V,W)				
Output frequency	V/f control : 0.00 - 650.00 Hz Vector control : 0.00 - 200.00 Hz			0.00 – 650.00 Hz
Overload current capacity	150% of rated current for 1 minute			110% of rated current for 1 minute
Resolution of frequency set	Operation with digital signals: 0.01Hz Operation with analog signals: 0.1% of max frequency			
Output Frequency accuracy	Analog setting: $\pm 0.2\%$ of max frequency ($25 \pm 10^\circ\text{C}$) Digital setting : 0.01 Hz (-10 ~ + 40 °C)			
Control				
Analog inputs	2	2	2	3
Analog outputs	2	2	1	2
Digital inputs (Multi-function)	8	8	5	8
Digital outputs (Multi-function)	2	2	1	2
Relay outputs (Multi-function)	2	2	1	5
Pulse Frequency Input(PFI) 50kHz	✓	✓	✗	✓
Pulse Frequency Output(PFI) 0~50kHz	✓	✓	✗	✓
DC braking	Braking time: 0.0 - 60.0 sec Braking current: 0.0 - 100.0% of rated current			
Dynamic braking unit	Built-in braking unit for model 15kW or below	Built-in braking unit	Built-in braking unit for model 22kW or below	
Function				
Torque boost	Auto & manual torque boost			
Auto energy saving	✓	✓	✗	✓
AVR	Keep the output voltage constant automatically when the voltage of the power grid fluctuates			
Auto carrier regulation	Regulate carrier frequency automatically based on the load and ambient temperature			
Momentary Power failure	Ensure uninterrupted operation by controlling the DC link voltage			
Protections	Overcurrent, Overvoltage, Under voltage, Input/output phase loss, Analog input loss, Short-circuit, Stall prevention, Motor overload , Stall prevention, Overheat, etc.			
Features	Process PID, Multiple PLC mode (8 PLC run mode), Multiple Speed mode, Wobble (Winding of Textiles), kWh meter timer.	Keypad with potentiometer, Process PID, Multistep frequency, Wobble (Winding of textiles).	Pump switching mode, Firefighting water supply mode, Constant pressure water supply mode.	
Environmental conditions				
Protection level	IP30	IP20		
Operation temperature	-10°C ~ + 40°C			
Storage temperature	-20°C ~ + 60°C			
Relative humidity	20 ~ 90% without condensation			
Altitude	Less than 1000 m			
Vibration	Less than 5.9m/sec ² (0.6 G)			
Cooling method	Forced air cooling with built-in fan control			
Communication hardware	RS485 port			
Protocol	Modbus, USS commands and CAN bus			
Optional hardware	Profibus-DP module			
Optional software	SB monitor			
Optional Accessories				
Brake unit, Digital I/O expansion board, Relay extension board, LCD keypad panel (SB-PU40), Extension cable for keypad, EMI filter, AC input/output reactor and DC input reactor, communication component and etc.				
Certifications				
CE, ISO 14001, ISO 9001, UL				

CONTINENTAL HOPE GROUP (CHG), is a high-tech dynamic corporation, headquartered in Sichuan Chengdu China, operating multi-businesses grouped under 4 divisions: Mechatronics, Energy & Chemicals, Hotel/Tourism/Real-Estate Development and Construction. Our products and services covers various segments including Variable Speed Drives, HVAC, Chemicals, Hotels, Construction (General Contracting), and Real Estate Development. The Regional sales office established in Singapore was a move to reach out closer to our neighbouring customers in tandem with our continual efforts to strive for regional growth and support.

As the core product of the Mechatronics division, SLANVERT had acquire various international standards such as ISO9001, ISO14001 and CE certifications. With these accomplishments, our R&D team had gradually expanded our product range, which includes SB200, SB70G, SB61Z+ and SBH Series. SLANVERT simple design allows users flexibility and accurate control for various type of motor applications, achieving different industry needs. SLANVERT is committed in providing quality products and professional support to all our customers and business partners.

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