

# THK-MOTOR-SY8000-030G-4 MOTOR INVERTER



## GLEASON PARTNERS LLC

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**1 YEAR R.O.I. GUARANTEE**

	Item	Spec.
Basic spec.	Max frequency	600.00Hz
	Carrier frequency	1.0~15.0KHz
	Resolution of input frequency	Digital setting: 0.01Hz Analog setting: Max frequency ×0.1%
	Control mode	Vector control without PG (SVC) V/F control
	Starting torque	Type G: 0.5Hz/150% Type P: 0.5Hz/100%
	Speed regulation range	1:100
	Speed stabilization accuracy	±0.5%
	Overload capacity	Type G: 150% of rated current for 60s; 180% of rated current for 1s; Type P: 120% of rated current for 60s; 150% of rated current for 1s;
	Torque increase	Automatic torque increase Manual torque increase 0.1%~30.0%
	V/F curve	Two modes: Straight line type 2.0 power
	Acc./dec. curve	Straight-line or S-curve acceleration and deceleration mode; two kinds of acceleration and deceleration time; range of acceleration and deceleration time: 0.1~3600.0s

Individual function	DC brake	DC braking frequency:0.0Hz~10.00Hz; braking time: 0.0~50.0s; braking operation current: 0.0~150.0%
	Jogging control	Jogging frequency range: 0.00Hz~P0.13; jogging acceleration and deceleration time: 0.0~3600.0s
	Multi-speed running	8-segment speed control
	Built-in PID	Realizing the process closed loop control system conveniently
	Automatic voltage regulation (AVR)	When the mains voltage makes the change, it can automatically keep the output voltage constant.
	Common DC bus function	Realizing the functions of common DC bus for many inverters
	JOG Key	Programmable key: Jog/forward & reverse rotation switchover/clearing UP/DOWN setting
	Wobble frequency control for spinning	Multi triangular wave frequency control functions
	Timing control	Timing control function: Setting time range 0~65535h
Input/output characteristics	Running command channel	Three channels: Operation panel setting, control terminal setting, serial communication port setting
	Frequency source	Digital setting, analogy voltage setting, analog current setting, serial port setting, etc.
	Input terminal	Two analog input terminals, hereinto, No. 4 terminal is used for voltage input, and No. 5 terminal is used for voltage or current input.
	Output terminal	One open collector output Two relays output One analog terminal, 0/4~20mA or 0~10V available for it, can realize the output of analog quantities such as setting frequency and output frequency.
Display and operation	LED	Displaying parameters
	LCD	Option, displayed in Chinese
	Parameter locking	Preventing other persons setting the parameters
	Protection function	Short-circuit protection, input/output phase-failure protection, over-current protection, under-voltage protection, over-voltage protection, over-load protection, over-heat protection, etc.
	Option	LCD operation panel, multi-function input/output expansion card, braking component, communication wire, etc.
Environment	Service location	Indoors, free from direct sunlight, dust, corrosive gas, combustible gas, oil mist, water vapor, drip or salt, etc.
	Altitude	Lower than 1,000m
	Ambient temp.	-10°C~+40°C(at 40°C~50°C, please use it by derating)
	Humidity	Less than 95%RH, no water condensation.
	Vibration	Less than 5.9m/s
	Storage temp.	-20°C~+60°C