



Golden Motor Technology Co., Ltd.

PI-800 Program cable for Vector Controller (FOC)

User's Guide

Website: www.goldenmotor.com

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The factory setting is the best performance for motor and controller. If you do not have special requirements, please do not change the original setting. Below is the detail explain

Description		Explain
Motor parameters	Hall electrical angle	Hall electrical angle
	Phase angle offset	Phase angle offset
	Number of pole pairs	Number of pole pairs
	Rated motor speed (rpm)	Rated motor speed (rpm)
Voltage parameter settings	Nominal battery voltage(V)	Battery nominal voltage value
	High voltage protection value(V)	Controller has its maximum allowable input voltage,when higher than that voltage,controller will stop for protection
	High voltage protection exit value(V)	When the battery voltage is higher than the maximum allowed voltage,controller will return to work until the battery voltage is lower than that voltage
	Minimum work voltage(V)	Controller has its minimum allowable input voltage,when lower than that voltage,controller will stop for protection
	Low voltage protection value(V)	When lower than that voltage,controller will stop for protection

	Low voltage protection exit value(V)	When controller stops for proection because of undervoltage,controller will reture to work until battery voltage picks up to that voltage
	Low voltage protection enable	Low voltage protection enable
	Low voltage triggering current reducing(V)	When the battery is in low voltage,reduce the value of current output voltage
	Clear undervoltage state whitle throttle off	Clear undervoltage state whitle throttle off
Current parameter settings	Starting phase current(A)	When motor starts, the minimum phase current that controller can output
	Maximum phase current(A)	The maximum phase current that controller allows to output short time
	Maximum phase current durattion(s)	The holding time of maximum phase current that controller allows to output
	Rated phase current(A)	The Rated phase current that controller can be output long time
	Battery drawn current limit(A)	The maximum current that battery can output
Temperature settings	Motor overtemperature protection enable	It needs to open
	Motor current limit temperature (Level 1)(°C)	the level 1 motor temperature of current control
	Motor current limit temperature (Level 2)(°C)	the level 2 motor temperature of current control
	Maximum motor protection temperature(°C)	When motor internal temperature exceeds that value,controller will stop work
	Motor temperature protection exit value(°C)	Motor temperature protection exit value (°C)
Motor blockage settings	Motor blockage protection enable	Defaulty open,non-programmable
	Stall protection time(s)	It's motor blockage protection time,when motor blocks that time,controller will stop for protection 0.1s-10s

Throttle parameter settings	Throttle voltage range protection enable	Throttle voltage range protection enable
	Throttle mode selection	Throttle mode selection
	Throttle maximum allowed voltage(V)	When throttle input voltage is above this voltage,controller will consider throttle damage and stop working for protection 3.8-4.8V
	Throttle upper voltage fault exit value(V)	If throttle voltage is above the upper fault value,controller can work normally only after its voltage is under this lower fault value 3.5-4.5V
	Throttle lowest allowed voltage (V)	When throttle input voltage is under this voltage,controller will consider throttle damage and stop working for protection 0.1-1.0V
	Throttle lower voltage fault exit value (V)	When throttle voltage is under lower fault value,controller can work normally only after its voltage is above this lower fault value 0.2-1.2V
	Throttle maximum valid voltage(V)	The lowest voltage value when throttle works effectively 2.5-4.0V
	Throttle minimum valid voltage(V)	The highest voltage value when throttle works effectively 0.5-1.5V
Accel and Decel parameter settings	Acceleration(rpm/s)	50-1200 rpm/s
	Deceleration(rpm/s)	100-1200 rpm/s
Warrenty Date	Warranty Date	Warranty Date
Software Version	Software Version	Software Version
Regenerative braking	EBS anable	EBS enable selection
	Reverse charging voltage(V)	The maximum EBS re-charging voltage
	Reverse charging current(A)	The maximum EBS re-charging current
	Enable EBS Auto-Mode	Enter EBS automatically while loosen the throttle
	EBS Auto_Mode Speed(rpm)	The win-speed enter EBS automatically while loosen the throttle
	Cruise Control Enable	Cruise Control Enable Selection
	Cruise Control Manual mode enable	Cruise Control Mannual mode enable Selection

Cruise Control Settings	Cruise Control Automatic mode enable	Cruise Control Automatic mode enable Seclection
	Cruise mode throttle minimum voltage(V)	Cruise into throttle minimum value
	Automatic Cruise response time (s)	When satisfying the automatic cruise conditions,the time delay of entering automatic cruise
Fwd-Speed-Loop setting	Forword Speed ratio (%)	Forword Speed ratio (%)
Bwd-Speed-Loop setting	Backword speed ratio (%)	Backword speed ratio (%)
	Reverse torque ratio (%)	Reverse torque ratio (%)
3-Gears Func setting	3-Gears enable	Enable 3-Gears function
	3-Gears switch mode setting	Choose 3-Gears of button or choose 3-Gears of shift
	Default gear (0:HG 1:MG 2:LG)	Button mode default gear(0:High gear,1:Mid gear,2;Low gear)
	High speed ratio (%)	High speed ratio (%)
	Mid speed ratio (%)	Mid speed ratio (%)
	Low speed ratio (%)	Low speed ratio (%)
Boost Func setting	Boost enable	Enable Boost function
	Boost Mode	Boost Mode
	Boost Current(A)	Boost Current(A)
	Boost Keeping time (S)	Boost Keeping time (S)
	Boost interval time (S)	Boost interval time (S)
Speed throttle type		