

Motor Speed Controller

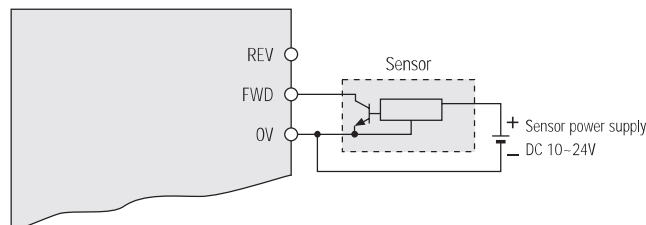
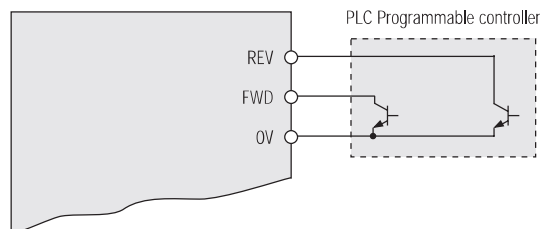
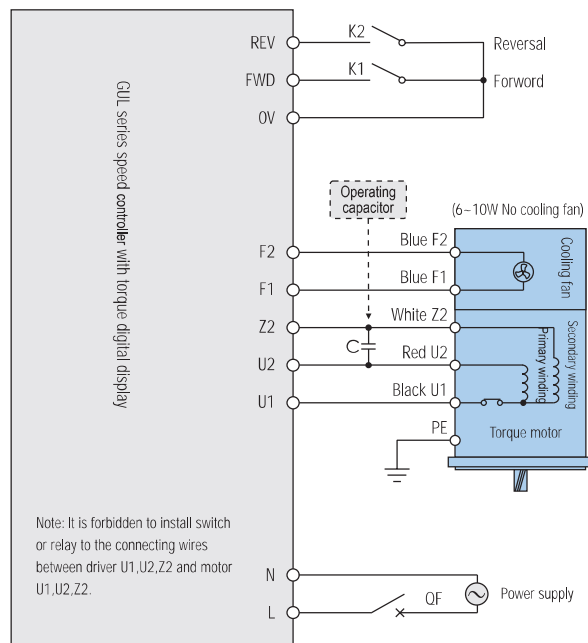
GUL Series

GUL Series Speed Controller With Torque Digital Display

Features

- MCU digital control technology that features great variety of functions and excellent performance.
- Digital display menu that is easy to change settings.
- Torque can be increased and reduced slowly.
- Panel operation or external switch control.
- The panel knob will automatically match the highest speed to achieve easy and safe control.

Wiring Diagram



Operating Instructions

- Please do not use the product in places that are explosive, have flammable gas, corrosive and places that are easy to catch water or places near combustible materials.
- Avoid continuous vibration and excessive shock.
- Make sure that the ground terminals are grounded.
- Installation, connection and inspections must be carried out by technical professionals.



Motor Drive Controller

- Buttons on the operation panel to control the motor operation.
 - 1) K1 or K2 switches are not required.
 - 2) Menu settings: Operation control option F-01, select "1" or "4" for button control on the operation panel.

The power supply voltage must be consistent with the power supply voltage of the driver, QF circuit breaker can protect the driver and variable-speed motor in case of short circuit.

- External switches K1 and K2 to control the motor operations.
 - 1) K1 and K2 switches are required.
 - 2) Menu settings: Operation control option F-01, select "2" or "3" for external switch control.

- Current specifications of QF circuit breaker

Supply voltage	Motor power	QF Current specifications
220V	6~40W	1A
110V	6~40W	2A

- FWD and REV use PLC programmable controller to achieve control.

PLC output:
NPN or drain transistor output.

- Menu settings:

Operation control option F-03, select "2" or "3" for external switch control.

- FWD and REV are controlled by sensors such as proximity switch and photoelectric switch.

Switch output:
three-wire NPN transistor output

- Menu settings:

Operation control option F-03, select "2" or "3" for external switch control.

Motor Drive Controller

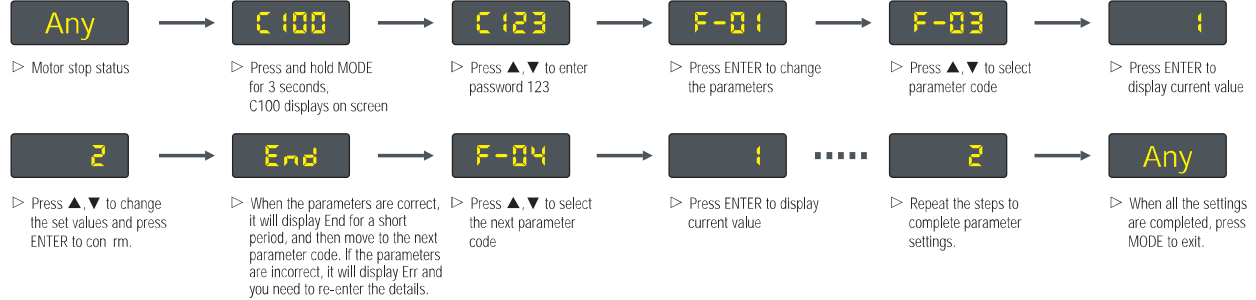
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Motor Drive Controller

Menu of GUL Series Torque Speed controller With Digital Display Panel

- Menu modifications:

Note: To ensure safety, modifications to F-03 and F-29 parameters must be performed when the motor is stopped, otherwise the settings can't be completed and the screen will display Err.



Parameter code	Functions of the parameters	Setting range	Description of the functions	Factory default settings	User settings
F-01	Operation control methods	1. Button control on the operation panel, memory not available. Control with external switches, STOP key is inactive. Control with external buttons, STOP key is active. 4. Button control on the operation panel, memory available.	Select "1" to control the motor with buttons on the panel; turn off power supply of the speed regulator and power it back on, the speed regulator will memorize the operation conditions prior to the power off, and the motor will be stopped when the power is back on. Select "4" and the speed regulator will memorize the operation conditions prior to the power off, and the motor will keep the status prior to the power off when the power is back on. Make sure safety is ensured when this function is selected. When selecting external switch control, the motor is controlled by FWD, REV external switch K1 and K2.	1	
F-02	Rotation mode	1. Forward and reversal are available. 2. Forward rotation is available, reversal is prohibited. 3. Reversal is available, forward rotation is prohibited.	Motor rotation direction may be restricted to prevent failure of the equipment or accident.	1	
F-03	Rotation direction	1. Negation is not available. 2. Negation is available.	It is easy to change the direction of the motor without changing the motor wiring to match your habit or requirements.	1	
F-04	Torque adjustment	1. Panel ▲▼ buttons 2. Panel knobs	Press ▲▼ to adjust the torque of the motor between 0 and the maximum torque range. The panel knob will automatically match between 0 and the maximum torque value.	1	
F-05	Maximum torque	50%~100%	Maximum torque may be restricted to prevent excessive torque from damaging the product or the equipment.	80	
F-06	The time required for the torque to increase to maximum value when the forward rotation is started.	0.1-10.0 seconds	The longer the time, the slower the motor starts and more time is required. The shorter the time, the faster the motor starts and less time is required.	1.0	
F-07	The time required for the torque to decrease to 0 when the forward stops.	0.1-10.0 seconds	The longer the time, the slower the motor starts and more time is required. The shorter the time, the faster the motor starts and less time is required.	1.0	
F-08	The time required for the torque to increase to maximum value when the reversal starts.	0.1-10.0 seconds	The longer the time, the slower the motor starts and more time is required. The shorter the time, the faster the motor starts and less time is required.	1.0	
F-09	The time required for the torque to decrease to 0 when the reversal stops.	0.1-10.0 seconds	The longer the time, the slower the motor starts and more time is required. The shorter the time, the faster the motor starts and less time is required.	1.0	
F-29	Factory reset	1. Factory reset not required. 2. Factory reset required.		1	
F-30	Program version	Code+version		06.**	

Outline Dimension

