

MV800 Simple Incremental PG Card (with STO Function) User Manual

BOM code: R*****

Version: V00

1 Product Information

1.1 Naming rule



1.2 Function description

MV810-PG*1S is an accessory card for the MV800 series AC drive, which provides encoder interfaces, with differential ABZ input and open-collector input, serving as the speed or position feedback. It has two ways of STO signal input to achieve Safe Torque Off for the AC drive.

1.3 Product appearance

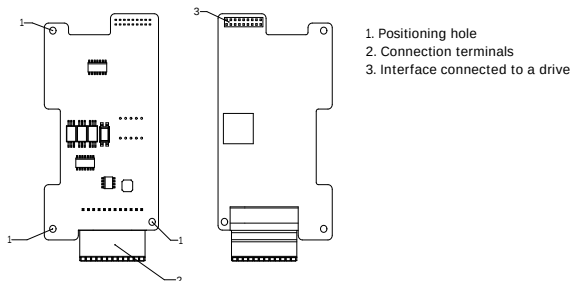


Fig. 1-1 PG*1S appearance (for models of 3.7 kW and below)

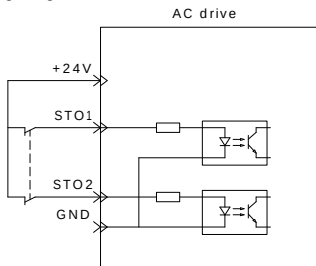
conditioning hole
connection terminals
connected to a drive

(d above)

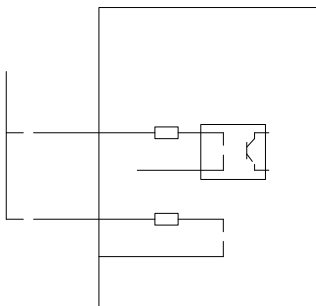
Fig. 1-4 ABZ signal

1.6 STO wiring diagram

(1) Internal 24 V wiring diagram



(2) External 24 V wiring diagram



1.7 Related function codes

Here are explanations of table fields for function codes.

Field	Explanation
Default	Factory settings of function codes
Property	○: means the function code can be changed during running; ×: means the function code can be changed at stop; *: means the function code can be read only and cannot be changed.

Function code	Name	Description	Default	Property
P04.00	Encoder PPR	1 to 65535	1024	×
P04.01	Encode type	0: ABZ incremental encoder	0	×
P04.02	A/B phase sequence of ABZ incremental encoder	0: Forward 1: Reverse Note: Rotation auto-tuning automatically detects the phase sequence	0	×
P04.03	Reserved			
P04.04	PG card voltage class selection	0: 5 V 1: 12 V	0	×

2 Installation

The installation position, installation interface and installation steps for MV810-PG*1S are described below.

2.1 Installation position of PG card

MV800 series AC drive provides two positions for expansion cards and options, as shown in Fig. 2-1 position 1 and position 2 (taking enclosure B as an example, similar for other enclosures), where position 1 is for the installation of various PG cards and position 2 is for the installation of PN bus options, ECAT bus options, I/O options, and so on.



Fig. 2-1 Expansion card/Option installation positions

2.2 Installation interface of PG card

The electrical interface of PG*1S card is connected to the MV800 AC drive as shown in Fig. 2-2.

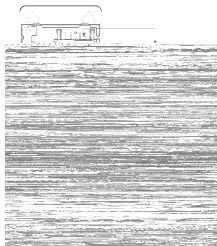
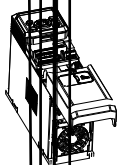


Fig. 2-2 Installation interface of PG card

2.3 Installation steps of PG card

Installation method: Reverse side mounting (PG*1S card)

- (1) When the drive is powered off, press the granulated part on the middle-upper of the lower cover, and slide it down firmly to take down the cover, as shown in Fig. 2-3 a.
- (2) Use a straight screwdriver to pry open the two snap-fit joints between the control box and the drive, and then remove the control box upwards, as shown in Fig. 2-3 b and c.
- (3) Install the PG*1S card: Hold the PG*1S card with its terminal block downwards, then align the three round holes on the PG*1S card with the location column, and press down to buckle the PG*1S card firmly into the four snap-fit joints, as shown in Fig. 2-3 d.
- (4) After the PG card is installed, align the control box with the snap-fit joints, and press down the control box to make its lower part firmly buckled, then slide the lower cover to lock it on the drive, as shown in Fig. 2-3 e and f.



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Option model:	
Option No:	
Purchase date:	

Service unit:	
Contact:	Tel:
Maintenance date:	

Checker: _____

Manufacturing date:

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with design
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