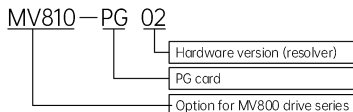


MV800 Resolver PG Card User Manual

Version: V00

1 Product Information

1.1 Designation rule



1.2 Function

The MV810-PG02 PG card serves as an option for encoders of the MV800 series drives. It provides the resolver with an interface for excitation signals EXC+/-, and feedback signals SIN+/- and COS+/- that function as the speed/position feedback.

1.3 Appearance

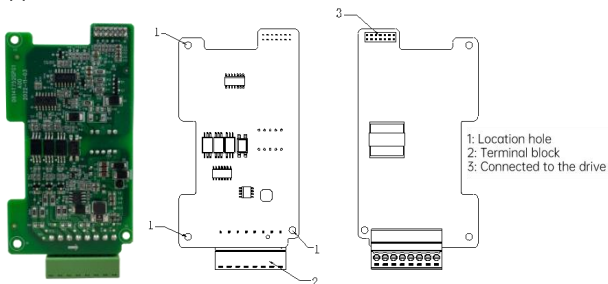


Figure 1-1 PG card appearance

1.4 Terminal description

The terminal block of the MV810-PG02 PG card is illustrated below:

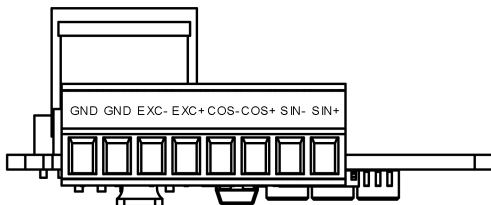


Figure 1-2 Terminal block with screen printing

Definitions of the terminal pins are explained in Table 1-1 below.

Type	Screen printing	Terminal name	Terminal function	Specification
Option for the encoder	SIN+ SIN-	Encoder SIN+/- signal terminal	Encoder SIN signal feedback input	2Vrms±10%
	COS+ COS-	Encoder COS+/- signal terminal	Encoder COS signal feedback input	
	EXC+ EXC-	Encoder EXC+/- excitation signal terminal	Excitation signal output	4Vrms±10% 10 kHz
	GND	Encoder power supply ground	Encoder power supply reference ground	-

Table 1-1 Terminal functions

1.5 Signal

The excitation signal EXC and the feedback signal SIN/COS of the PG card are shown below:

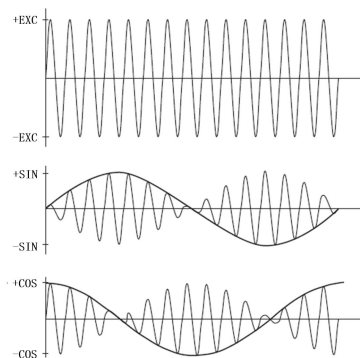


Figure 1-3 Signal of the resolver



Note:

When the motor is rotating forward, the COS signal is 90° ahead of the SIN signal; when the motor is rotating backward, the SIN signal is 90° ahead of the COS signal.

1.6 Parameters

Definitions of the items and marks in the parameter table are shown in the table below:

Item	Definition
Default	Value of the function code after the factory default setting is restored
Property	○: Function code modification is available when the encoder is in operation; ×: Function code modification is available when the encoder stops operation.

Parameter	Name	Range	Default	Property
P04.00	Encoder line count	1 to 65535	1024	×
P04.01	Encoder type	0: None 1: ABZ incremental encoder 2: Resolver	0	0
P04.02	Encoder direction	0: Forward 1: Reverse Note: Phase sequence is automatically identified when the direction is identified.	0 to 1	0
P04.07	Sync motor initial position	Synchronous motor initial position corresponding to the absolute encoder: 0 to 360.0	0	×
P04.08	Resolver correction enable	0: Disable 1: Enable	0 to 1	0

2 Installation

The installation method of the MV810-PG02 PG card, including the installation position, interface, and installation steps, are described below:

2.1 Installation position

The MV800 series drive provides two positions for the installation of the expansion/option card, as illustrated in Figure 2-1 (the example is based on enclosure B; for other enclosure types, refer to this example). Position 1 is for the installation of the PG card of various types; Position 2 is for the installation of expansions, including the PN bus option, the ECAT bus option, and the I/O expansion option.

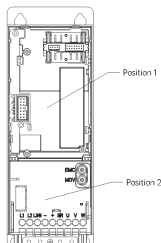


Figure 2-1 Installation position for the expansion/option card

2.2 Interface

The electrical interface of the PG card and the corresponding interface of the drive are illustrated in Figure 2-2 below:

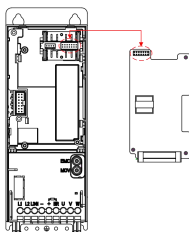


Figure 2-2 Installation interface

2.3 Installation steps

Installation direction: back side mounting (PG card)

(1) Make sure the drive is in the power off state. Press the granulated area on the middle-upper part of the lower cover, slide it down with proper force till the cover is taken off from the drive, as shown in Figure 2-3-a.

(2) Use a small-size straight screwdriver to pry open the two spring snaps that

connect the bottom of the operating panel with the drive, and take off the operating panel, as shown in Figure 2-3-b and Figure 2-3-c.

(3) Mount the PG card: hold the card with the terminal block pointing downward, align the three location holes with the location columns on the drive, and press the PG card downward with proper force to secure it by buckling the four spring snaps, as shown in Figure 2-3-d.

(4) Align the spring snaps of the operating panel, press the panel downward with proper force to secure it by buckling the spring snaps; align and slide the lower cover till it is buckled in place, as shown in Figure 2-3-e and Figure 2-3-f. The installation of the PG card is then completed.

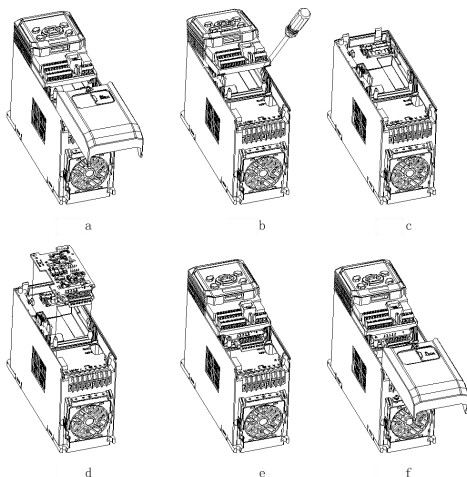


Figure 2-3 Steps of the PG card installation on Position 1

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MEGMEET

Warranty bill of communication option

Customer company:

Detailed address:

Contact:

Tel:

Option model:

Option number:

Purchase date:

Service unit:

Contact:

Tel:

Maintenance date:

MEGMEET

Shenzhen
Megmeet
Electrical Co., Ltd.

Certificate

Checker: _____

Manufacturing
date: _____

The product has
been tested in line
with design
standards and
approved for
leaving the factory.