YASKAWA

YASKAWA AC Drive GA800

Supplemental Manual

Introduction

Thank you for purchasing YASKAWA AC Drive GA800.

This supplemental manual describes the functions added with a GA800 software upgrade (PRG: 09013), and should be read to ensure proper usage. Read this manual together with the manual (TOEP C710617 37) included with the product and the GA800 Technical Reference (SIEP C710617 37) that can be found on our documentation website. Always observe the safety messages and precautions to ensure correct application of the product.

Applicable Software Version

This manual applies to GA800 for software versions PRG: 09013 or later.

The software version is indicated on the nameplate affixed to the side of the product, and also can be viewed by using monitor parameter *U1-25*.

Modified Contents

This supplemental manual explains about specification change and corrections for the status of digital input/output terminals during Auto-Tuning.

1. Specification change: Status of the digital output during Z-Pulse Offset Tuning
2. Correction: Status of the digital output during PM Motor Parameter Settings and Motor Parameter Setting

1. Specification Change for the Status of the Digital Output during Z-Pulse Offset Tuning

The status of the output terminal during Z-Pulse Offset Tuning is changed as follows.

· Software version PRG: 09012 or earlier models: Keeps the status at the start of Auto-Tuning.

· Software version PRG: 09013 or later models: Functions the same as during usual operation.

Refer to Table 1 for more information.

2. Corrections for the Status of the Digital Outputs during PM Motor Parameter Settings and Motor Parameter Setting

PM Motor Parameter Settings and Motor Parameter Setting

Wrong: Disabled

Correct: Keeps the status at the start of Auto-Tuning.

Refer to Table 1 for more information.

Table 1. Modified Contents (Specification Change and Error Corrections)

Underlined texts show modifications.

Before Modifications	**Table 4.16　Status of Input/Output Terminals during Auto-Tuning** See table below
After Modifications	**Table 4.16　Status of Input/Output Terminals during Auto-Tuning** See table below

Before Modifications — Table 4.16　Status of Input/Output Terminals during Auto-Tuning

Auto-Tuning Type	Mode		Digital Input	Digital Output
Induction Motor Auto-Tuning	Rotational	Rotational Auto-Tuning	Disabled	Functions the same as during normal operation.
	Stationary	Stationary Auto-Tuning	Disabled	Maintains the status at the start of Auto-Tuning.
		Stationary Auto-Tuning for Line-to-Line Resistance	Disabled	Maintains the status at the start of Auto-Tuning.
PM Motor Auto-Tuning	Rotational	Z-Pulse Offset Tuning	Disabled	Maintains the status at the start of Auto-Tuning.
		PM Rotational Auto-Tuning	Disabled	Functions the same as during normal operation.
	Stationary	PM Motor Parameter Settings	Disabled	Disabled
		PM Stationary Auto-Tuning	Disabled	Maintains the status at the start of Auto-Tuning.
		PM Stationary Auto-Tuning for Stator Resistance	Disabled	Maintains the status at the start of Auto-Tuning.
EZ Tuning	Stationary	Motor Parameter Setting	Disabled	Disabled
		Stationary Auto-Tuning for Line-to-Line Resistance	Disabled	Maintains the status at the start of Auto-Tuning.
ASR and Inertia Tuning	Rotational	Inertia Tuning	Disabled	Functions the same as during normal operation.
		ASR Tuning	Disabled	Functions the same as during normal operation.
		Deceleration Rate Tuning	Disabled	Functions the same as during normal operation.
		KEB Tuning	Disabled	Functions the same as during normal operation.

After Modifications — Table 4.16　Status of Input/Output Terminals during Auto-Tuning

Auto-Tuning Type	Mode		Digital Input	Digital Output
Induction Motor Auto-Tuning	Rotational	Rotational Auto-Tuning	Disabled	Functions the same as during normal operation.
	Stationary	Stationary Auto-Tuning	Disabled	Keeps the status at the start of Auto-Tuning.
		Stationary Auto-Tuning for Line-to-Line Resistance	Disabled	Keeps the status at the start of Auto-Tuning.
PM Motor Auto-Tuning	Rotational	Z-Pulse Offset Tuning	Disabled	**Functions the same as during normal operation.**
		PM Rotational Auto-Tuning	Disabled	Keeps the same as during normal operation.
	Stationary	PM Motor Parameter Settings	Disabled	**Keeps the status at the start of Auto-Tuning.**
		PM Stationary Auto-Tuning	Disabled	Keeps the status at the start of Auto-Tuning.
		PM Stationary Auto-Tuning for Stator Resistance	Disabled	Keeps the status at the start of Auto-Tuning.
EZ Tuning	Stationary	Motor Parameter Setting	Disabled	**Keeps the status at the start of Auto-Tuning.**
		Stationary Auto-Tuning for Line-to-Line Resistance	Disabled	Keeps the status at the start of Auto-Tuning.
ASR and Inertia Tuning	Rotational	Inertia Tuning	Disabled	Functions the same as during normal operation.
		ASR Tuning	Disabled	Functions the same as during normal operation.
		Deceleration Rate Tuning	Disabled	Functions the same as during normal operation.
		KEB Tuning	Disabled	Functions the same as during normal operation.