

VFD-ME300 Installation Introduction

- **Basic Compact Drive**
- ☑ Please read this instruction sheet thoroughly before installation and keep this instruction sheet properly.

网络锦绣

User Manual-EN

 $\ensuremath{\boxtimes}$ To ensure the safety of operators and equipment, only qualified personnel familiar with AC motor drives are allowed to do installation. trial run and parameter settings. Always read this instruction sheet thoroughly before using the AC motor drive, especially the WARNING, DANGER and CAUTION notes. If you have any questions, please contact your dealer.

PLEASE READ PRIOR TO INSTALLATION FOR SAFETY.



- Ø AC input power must be disconnected before any wiring to the AC motor drive is made.
- Ø Even if the power has been turned off, a charge may still remain in the DC-link capacitors with hazardous voltages before the POWER LED is OFF. Please do not touch the internal circuit and components.
- ☑ There are highly sensitive MOS components on the printed circuit boards. These components are especially sensitive to static electricity. Please do not touch these components or the circuit boards before taking anti-static measures.
- ☑ Never reassemble internal components or wiring.
 ☑ Ground the AC motor drive using the ground terminal. The grounding method must comply with the laws of the country where the AC motor drive is to be installed.
- ☑ DO NOT install the AC motor drive in a place subjected to high temperature, direct sunlight and inflammables.



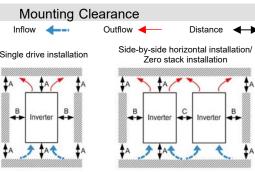
- ☑ Never connect the AC motor drive output terminals U/T1, V/T2 and W/T3 directly to the AC mains circuit power supply.
- Rated voltage of power system to install motor drives is as below, make sure that the installation voltage is within the ranges mentioned below while installing the motor drives:
- For 115V models, the variable range is between 85V and 132V.
 For 230V models, the variable range is between 170V and 264V.

Ζ.	FOI 230V models,	, the valiable lange is between 170V and 20	4
3.	For 460V models.	the variable range is between 323V and 52	8

\checkmark	Refer to the table below for	short circuit rating:
	Model (Power)	Short circuit rating
	115V	5 kA

	2300	5 KA	
	460V	5 kA	
\square	Only qualified persons are a	llowed to install, wire and m	aintain the AC

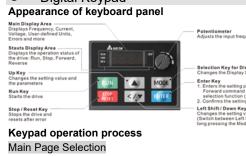
- ☑ Even if the 3-phase AC motor is stopped, a charge may still remain in the main circuit terminals of the AC motor drive with hazardous voltages
- ☑ The performance of electrolytic capacitor will degrade if it is not charged for a long time. It is recommended to charge the drive which is stored in no charge condition every 2 years for 3–4 hours to restore the performance of electrolytic capacitor in the motor drive. Note: When power up the motor drive, use adjustable AC power source (ex. AC autotransformer) to charge the drive at 70%-80% of rated voltage for 30 minutes (do not run the motor drive). Then charge the drive at 100% of rated voltage for an hour (do not run the motor drive). By doing these, restore the performance of electrolytic capacitor before starting to run the motor drive. Do NOT run the motor drive at 100% rated voltage right away.
- $\ensuremath{\ensuremath{\boxtimes}}$ Pay attention to the following when transporting and installing this package (including wooden crate, wood stave and carton box)
- 1. If you need to sterilize, deworm the wooden crate or carton box, please do not use steamed smoke sterilization or you will damage the VFD.
- 2. Please use other ways to sterilize or deworm.
- 3. You may use high temperatures to sterilize or deworm. Leave the packaging materials in an environment of over 56°C for 30 minutes.
- 4. It is strictly forbidden to use steamed smoking sterilization. The warranty does not covered VFD damaged by steamed smoking sterilization.
- ☑ Connect the drive to a 3-phase three-wire or 3-phase four-wire Wye system to comply with UL standards.
- ☑ If the motor drive produces a leakage current of over 3.5mA AC or over 10mA DC on the Protective Earthing conductor, the minimum specifications required of the Protective Earthing conductor to be installed have to comply with the national local laws and regulations or follow IEC61800-5-1 to do grounding.



Installation	Distance			Ambient temperature (°C)	
Method	А	В	С	Max. (Without derating)	Max. (derating)
Single drive installation	50	30	-	50	60
Side-by-side horizontal installation	50	30	30	50	60
Zero stack installation	50	30	0	40	50

The minimum mounting clearances A-C stated in the table above applies to AC motor drives installation. Failing to follow the minimum mounting clearances may cause the fan to malfunction and heat dissipation problems

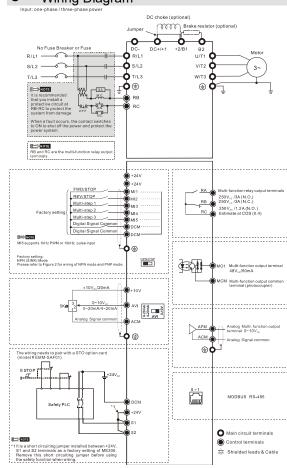
• Digital Keypad





Dease refer to Chapter 10 Digital Keypad for more information

Wiring Diagram



Parameter Settings

Generative Section For more detailed parameter settings, please refer to the user manual. Scan the QR Code to download the user manual at

Drive Paran Pr.	Explanation	Default
00-00	Identity code of the AC motor drive	Read only
00-01	Display AC motor drive rated current	Read only
00-02	Parameter reset	0
00-03	Select start-up display	0
00-04	Content of Multi-function display (user-defined)	3
00-05	Coefficient gain in actual output frequency	1.00
00-06	Coefficient gain in actual output frequency	#.#
00-07	Firmware version	0
00-08	Parameter protection password input	0
00-10	Parameter protection password setting	0
00-11	Speed Control mode 0: VF (IM V/F control)	0
00-16	2: SVC (Pr.05-33 set as IM or PM) Load selection	1
00-17	Carrier frequency	4
00-20	Master frequency command (AUTO) source 0: Digital keypad 1: RS-485 communication 2: External analog input(refer to Pr.03-00) 3: External UP/DOWN terminal 4: Pulse input without direction command (refer to Pr.10-16 without direction) 7: Digital keypad dial	0
00-21	Operation command (AUTO) source 0: Digital keypad 1: External terminals	0
00.33	2: RS-485 communication input Stop method	0
00-22		0
00-23	Control of motor direction	0 Bood only
00-24	Digital keypad frequency command memory	Read only
00-25	User-defined characteristics	0
00-26	Maximum user-defined value	0
00-27	User-defined value	Read only
00-29	LOCAL / REMOTE mode Master frequency command (HAND) source	0
00-30	0: Digital keypad 1: RS-485 communication 2: External analog input(refer to Pr.03-00) 3: External UP/DOWN terminal 7: Digital keypad dial	0
00-31	Operation command (HAND) source 0: Digital keypad 1: External terminals 2: RS-485 communication	0
00-32	Digital keypad STOP function	0
00-48	Display filter time (current)	0.100
00-49	Display filter time (keypad)	0.100
00-50	Software version (date)	#####
Basic Parar	neters	
Pr.	Explanation	Default
01-00	Maximum operation frequency of motor 1	60.00 / 50.00
01-01	Output frequency of motor 1	60.00 / 50.00
01-02	Output voltage of motor 1	220.0 / 440.0
01-03	Mid-point frequency 1 of motor 1	3.00
01-04	Mid-point voltage 1 of motor 1	11.0 / 22.0
01-05	Mid-point frequency 2 of motor 1	1.5
01-06	Mid-point voltage 2 of motor 1	5.0 / 10.0
01-07		
	Minimum output frequency of motor 1	0.50
01-08	Minimum output frequency of motor 1 Minimum output voltage of motor 1	0.50
01-08	Minimum output voltage of motor 1	1.0 / 2.0
01-08 01-09	Minimum output voltage of motor 1 Start-up frequency	1.0 / 2.0 0.50
01-08 01-09 01-10 01-11	Minimum output voltage of motor 1 Start-up frequency Output frequency upper limit	1.0 / 2.0 0.50 599.00 0.00
01-08 01-09 01-10 01-11 01-12-01-19	Minimum output voltage of motor 1 Start-up frequency Output frequency upper limit Output frequency lower limit Acceleration / Deceleration time	1.0 / 2.0 0.50 599.00 0.00 10.00 / 10.0
01-08 01-09 01-10 01-11 01-12-01-19	Minimum output voltage of motor 1 Start-up frequency Output frequency upper limit Output frequency lower limit Acceleration / Deceleration time JOG acceleration / deceleration time JOG frequency	1.0 / 2.0 0.50 599.00 0.00 10.00 / 10.0
01-08 01-09 01-10 01-11 01-12–01-19 01-20–01-21 01-22 01-23	Minimum output voltage of motor 1 Start-up frequency Output frequency upper limit Output frequency lower limit Acceleration / Deceleration time JOG acceleration / deceleration time JOG frequency First / Fourth acceleration / deceleration frequency	1.0 / 2.0 0.50 599.00 0.00 / 10.0 10.00 / 10.0 6.00 0.00
01-08 01-09 01-10 01-11 01-12-01-19 01-22 01-23 01-23	Minimum output voltage of motor 1 Start-up frequency Output frequency upper limit Output frequency lower limit Acceleration / Deceleration time JOG acceleration / deceleration time JOG frequency First / Fourth acceleration / deceleration frequency S-curve acceleration / deceleration begin / arrival time 1, 2	1.0 / 2.0 0.50 599.00 10.00 / 10.0 10.00 / 10.0 6.00 0.00 0.20 / 0.2
01-08 01-09 01-10 01-11 01-12-01-19 01-22 01-23 01-23 01-24-01-27 01-28-01-33	Minimum output voltage of motor 1 Start-up frequency Output frequency upper limit Output frequency lower limit Acceleration / Deceleration time JOG acceleration / deceleration time JOG frequency First / Fourth acceleration / deceleration frequency S-curve acceleration / deceleration begin / arrival time 1, 2 Skip frequency 1–3 upper / lower limit	1.0 / 2.0 0.50 599.00 0.00 / 10.0 10.00 / 10.0 6.00 0.00
01-08 01-09 01-10 01-11 01-12-01-19 01-22 01-23 01-23	Minimum output voltage of motor 1 Start-up frequency Output frequency upper limit Output frequency lower limit Acceleration / Deceleration time JOG acceleration / deceleration time JOG frequency First / Fourth acceleration / deceleration frequency S-curve acceleration / deceleration begin / arrival time 1, 2 Skip frequency 1–3 upper / lower limit Zero-speed mode	1.0 / 2.0 0.50 599.00 10.00 / 10.0 10.00 / 10.0 6.00 0.00 0.20 / 0.2
01-08 01-09 01-10 01-11 01-12-01-19 01-22 01-23 01-23 01-24-01-27 01-28-01-33	Minimum output voltage of motor 1 Start-up frequency Output frequency upper limit Output frequency lower limit Acceleration / Deceleration time JOG acceleration / deceleration time JOG frequency First / Fourth acceleration / deceleration frequency S-curve acceleration / deceleration begin / arrival time 1, 2 Skip frequency 1–3 upper / lower limit	1.0 / 2.0 0.50 599.00 10.00 / 10.0 10.00 / 10.0 6.00 0.00 0.20 / 0.2 0.00 0
01-08 01-09 01-10 01-11 11-12-01-19 11-20-01-21 01-22 01-23 11-24-01-27 11-28-01-33 01-34	Minimum output voltage of motor 1 Start-up frequency Output frequency upper limit Output frequency lower limit Acceleration / Deceleration time JOG acceleration / deceleration time JOG frequency First / Fourth acceleration / deceleration frequency S-curve acceleration / deceleration begin / arrival time 1, 2 Skip frequency 1–3 upper / lower limit Zero-speed mode	1.0 / 2.0 0.50 599.00 10.00 / 10.0 10.00 / 10.0 6.00 0.00 0.20 / 0.2 0.00 0 60.00 / 50.00
01-08 01-09 01-10 01-11 11-12-01-19 11-20-01-21 01-22 01-23 11-24-01-27 11-28-01-33 01-34 01-35	Minimum output voltage of motor 1 Start-up frequency Output frequency upper limit Output frequency lower limit Acceleration / Deceleration time JOG acceleration / deceleration time JOG frequency First / Fourth acceleration / deceleration frequency S-curve acceleration / deceleration begin / arrival time 1, 2 Skip frequency 1–3 upper / lower limit Zero-speed mode Output frequency of motor 2 Output voltage of motor 2	1.0 / 2.0 0.50 599.00 10.00 / 10.0 10.00 / 10.0 6.00 0.00 0.20 / 0.2 0.00 0 60.00 / 50.0
01-08 01-09 01-10 01-11 11-12-01-19 11-20-01-21 01-22 01-23 11-24-01-27 11-28-01-33 01-34 01-35 01-36	Minimum output voltage of motor 1 Start-up frequency Output frequency upper limit Output frequency lower limit Acceleration / Deceleration time JOG acceleration / deceleration time JOG frequency First / Fourth acceleration / deceleration frequency S-curve acceleration / deceleration begin / arrival time 1, 2 Skip frequency 1–3 upper / lower limit Zero-speed mode Output frequency of motor 2 Output voltage of motor 2 Mid-point frequency 1 of motor 2	1.0 / 2.0 0.50 599.00 10.00 / 10.0 10.00 / 10.0 6.00 0.00 0.20 / 0.2 0.00 0 60.00 / 50.0 220.0 / 440.1 3.00
01-08 01-09 01-10 01-11 01-12-01-19 01-20-01-21 01-22 01-23 01-23 01-24-01-27 01-28-01-33 01-34 01-35 01-36 01-37 01-38	Minimum output voltage of motor 1 Start-up frequency Output frequency upper limit Output frequency lower limit Acceleration / Deceleration time JOG acceleration / deceleration time JOG frequency First / Fourth acceleration / deceleration frequency S-curve acceleration / deceleration begin / arrival time 1, 2 Skip frequency 1–3 upper / lower limit Zero-speed mode Output frequency of motor 2 Output voltage of motor 2 Mid-point frequency 1 of motor 2	1.0 / 2.0 0.50 599.00 10.00 / 10.0 10.00 / 10.0 6.00 0.00 0.20 / 0.2 0.00 0.00 0.00 220.0 / 440. 3.00 11.0 / 22.0
01-08 01-09 01-10 01-11 01-12-01-19 01-22 01-23 01-23 01-23 01-24-01-27 01-28-01-33 01-34 01-35 01-36 01-37 01-38 01-39	Minimum output voltage of motor 1 Start-up frequency Output frequency upper limit Output frequency lower limit Acceleration / Deceleration time JOG acceleration / deceleration time JOG frequency First / Fourth acceleration / deceleration frequency S-curve acceleration / deceleration begin / arrival time 1, 2 Skip frequency 1–3 upper / lower limit Zero-speed mode Output frequency of motor 2 Output voltage of motor 2 Mid-point frequency 1 of motor 2 Mid-point frequency 2 of motor 2	1.0 / 2.0 0.50 599.00 10.00 / 10.0 10.00 / 10.0 6.00 0.00 0.20 / 0.2 0.00 0 60.00 / 50.00 220.0 / 440.0 3.00 11.0 / 22.0 0.50
01-08 01-09 01-10 01-11 01-12-01-19 01-22 01-23 01-23 01-23 01-24-01-27 01-28-01-33 01-34 01-35 01-36 01-37 01-38 01-39 01-40	Minimum output voltage of motor 1 Start-up frequency Output frequency upper limit Output frequency lower limit Acceleration / Deceleration time JOG acceleration / deceleration time JOG frequency First / Fourth acceleration / deceleration frequency S-curve acceleration / deceleration begin / arrival time 1, 2 Skip frequency 1–3 upper / lower limit Zero-speed mode Output frequency of motor 2 Output voltage of motor 2 Mid-point voltage 1 of motor 2 Mid-point frequency 2 of motor 2 Mid-point frequency 2 of motor 2 Mid-point frequency 2 of motor 2	1.0 / 2.0 0.50 599.00 10.00 / 10.0 10.00 / 10.0 6.00 0.00 0.20 / 0.2 0.00 0 60.00 / 50.00 220.0 / 440.0 3.00 11.0 / 22.0 0.50 2.0 / 4.0
01-08 01-09 01-10 01-11 01-12-01-19 01-22 01-23 01-23 01-23 01-24-01-27 01-28-01-33 01-34 01-35 01-36 01-37 01-38 01-39 01-40 01-41	Minimum output voltage of motor 1 Start-up frequency Output frequency upper limit Output frequency lower limit Acceleration / Deceleration time JOG acceleration / deceleration time JOG frequency First / Fourth acceleration / deceleration frequency S-curve acceleration / deceleration begin / arrival time 1, 2 Skip frequency 1–3 upper / lower limit Zero-speed mode Output frequency of motor 2 Mid-point frequency 1 of motor 2 Mid-point frequency 2 of motor 2 Mid-point voltage 2 of motor 2	1.0 / 2.0 0.50 599.00 10.00 / 10.0 10.00 / 10.0 6.00 0.20 / 0.2 0.00 0.20 / 0.2 0.00 0 60.00 / 50.0 11.0 / 22.0 0.50 2.0 / 4.0 0.00
01-08 01-09 01-10 01-11 01-2-01-19 01-22 01-23 01-23 01-24-01-27 01-28-01-33 01-34 01-35 01-36 01-37 01-38 01-39 01-40 01-41 01-42	Minimum output voltage of motor 1 Start-up frequency Output frequency lower limit Output frequency lower limit Acceleration / Deceleration time JOG acceleration / deceleration time JOG frequency First / Fourth acceleration / deceleration frequency S-curve acceleration / deceleration begin / arrival time 1, 2 Skip frequency 1–3 upper / lower limit Zero-speed mode Output frequency of motor 2 Mid-point frequency 1 of motor 2 Mid-point voltage 2 of motor 2 Mid-point voltage 2 of motor 2 Minimum output frequency of motor 2 Minimum output voltage of motor 2	1.0 / 2.0 0.50 599.00 10.00 / 10.0 10.00 / 10.0 6.00 0.00 0.20 / 0.2 0.00 0 60.00 / 50.0 220.0 / 440.0 3.00 11.0 / 22.0 0.50 2.0 / 4.0 0.00 0.00
01-08 01-09 01-10 01-11 01-12-01-19 01-20-01-21 01-22 01-23 01-24-01-27 01-28-01-33 01-34 01-35 01-36 01-37 01-38 01-39 01-40 01-41 01-42 01-43	Minimum output voltage of motor 1 Start-up frequency Output frequency upper limit Output frequency lower limit Acceleration / Deceleration time JOG acceleration / deceleration time JOG frequency First / Fourth acceleration / deceleration frequency S-curve acceleration / deceleration begin / arrival time 1, 2 Skip frequency 1–3 upper / lower limit Zero-speed mode Output frequency of motor 2 Output voltage of motor 2 Mid-point frequency 1 of motor 2 Mid-point frequency 2 of motor 2 Mid-point frequency 2 of motor 2 Mid-point frequency 2 of motor 2 Mid-point voltage 2 of motor 2 Mid-point voltage 2 of motor 2 Minimum output frequency of motor 2 Minimum output voltage of motor 2 Minimum output voltage of motor 2	1.0 / 2.0 0.50 599.00 10.00 / 10.0 10.00 / 10.0 6.00 0.00 0.20 / 0.2 0.00 0 60.00 / 50.0 220.0 / 440.0 3.00 11.0 / 22.0 0.50 2.0 / 4.0 0.00 0.50 2.0 / 4.0 0.00 0.00 0.50 0.00 0.00 0.50 0.00 0.00 0.00 0.50 0.00 0.00 0.00 0.00 0.50 0.00 0.00 0.00 0.00 0.00 0.50 0.00 0.00 0.00 0.00 0.00 0.50 0.00
01-08 01-09 01-10 01-11 11-12-01-19 11-20-01-21 01-22 01-23 11-24-01-27 11-28-01-33 01-34 01-35 01-36 01-37 01-38 01-39 01-40 01-41 01-42	Minimum output voltage of motor 1 Start-up frequency Output frequency upper limit Output frequency lower limit Acceleration / Deceleration time JOG acceleration / deceleration time JOG frequency First / Fourth acceleration / deceleration frequency S-curve acceleration / deceleration begin / arrival time 1, 2 Skip frequency 1–3 upper / lower limit Zero-speed mode Output frequency of motor 2 Output voltage of motor 2 Mid-point voltage 1 of motor 2 Mid-point voltage 1 of motor 2 Mid-point requency 2 of motor 2 Mid-point voltage 2 of motor 2 Mid-point voltage 2 of motor 2 Minimum output frequency of motor 2 Minimum output voltage of motor 2 Minimum output voltage of motor 2 V/F curve selection	1.0 / 2.0 0.50 599.00 10.00 / 10.0 10.00 / 10.0 6.00 0.00 0.20 / 0.2 0.00 0 60.00 / 50.0 220.0 / 440.0 3.00 11.0 / 22.0 0.50 2.0 / 4.0 0.00 0.00
01-08 01-09 01-10 01-11 01-12-01-19 01-20-01-21 01-22 01-23 01-23 01-23 01-24-01-27 01-28-01-33 01-34 01-35 01-36 01-37 01-38 01-39 01-40 01-41 01-42 01-43 01-44 01-45	Minimum output voltage of motor 1 Start-up frequency Output frequency upper limit Output frequency lower limit Acceleration / Deceleration time JOG acceleration / deceleration time JOG frequency First / Fourth acceleration / deceleration frequency S-curve acceleration / deceleration begin / arrival time 1, 2 Skip frequency 1–3 upper / lower limit Zero-speed mode Output frequency of motor 2 Mid-point frequency 1 of motor 2 Mid-point frequency 2 of motor 2 Mid-point voltage 1 of motor 2 Mid-point voltage 2 of motor 2 Mid-point voltage 2 of motor 2 Minimum output frequency of motor 2 Minimum output voltage of motor 2 V/F curve selection Auto-acceleration and auto-deceleration setting Time unit for acceleration and deceleration and S-curve	1.0 / 2.0 0.50 599.00 10.00 / 10.0 10.00 / 10.0 6.00 0.00 0.20 / 0.2 0.00 0.00 220.0 / 440.1 3.00 11.0 / 22.0 0.50 2.0 / 4.0 0.00 0.0 0 0 0 0 0 0 0 0 0 0 0 0 0
01-08 01-09 01-10 01-11 01-2-01-19 01-20-01-21 01-22 01-23 01-24-01-27 01-28-01-33 01-34 01-35 01-36 01-37 01-38 01-39 01-40 01-41 01-42 01-43 01-44	Minimum output voltage of motor 1 Start-up frequency Output frequency upper limit Output frequency lower limit Acceleration / Deceleration time JOG acceleration / deceleration time JOG frequency First / Fourth acceleration / deceleration frequency S-curve acceleration / deceleration begin / arrival time 1, 2 Skip frequency 1–3 upper / lower limit Zero-speed mode Output frequency of motor 2 Output voltage of motor 2 Mid-point frequency 1 of motor 2 Mid-point frequency 2 of motor 2 Mid-point voltage 2 of motor 2 Minimum output frequency of motor 2 Minimum output voltage of motor 2 V/F curve selection Auto-acceleration and auto-deceleration setting Time unit for acceleration and deceleration and	1.0 / 2.0 0.50 599.00 10.00 / 10.0 10.00 / 10.0 6.00 0.00 0.20 / 0.2 0.00 0 60.00 / 50.0 220.0 / 440.0 3.00 11.0 / 22.0 0.50 2.0 / 4.0 0.00

01-52 Maximum operation frequency of motor 2 60.00 / 50.00

Digital Input	t / Output Parameters
Pr.	Explanation
	Two-wire / Three-wire operation control
	0: No function
	1: Two-wire mode 1, power on for operation control (M1: FWD/STOP, M2: REV/STOP)
	2: Two-wire mode 2, power on for operation
	control (M1: RUN/STOP, M2: FWD/REV)
02-00	3: Three-wire, power on for operation control
	(M1: RUN, M2: REV/FWD, M3: STOP)
	4: Two-wire mode 1, Quick Start (M1: FWD/STOP, M2: REV/STOP)
	5: Two-wire mode 2, Quick Start
	(M1: RUN/STOP, M2: FWD/REV)
	6: Three-wire, Quick Start
00.01	(M1: RUN, M2: REV/FWD, M3: STOP)
02-01	Multi-function input command 1 (MI1)
02-02	Multi-function input command 2 (MI2)
02-03	Multi-function input command 3 (MI3)
02-04	Multi-function input command 4 (MI4)
02-05	Multi-function input command 5 (MI5)
	0: No function
	1: Multi-step speed command 1 / multi-step position command 1
	2: Multi-step speed command 2 / multi-step
	position command 2
	3: Multi-step speed command 3 / multi-step
	position command 3
	4: Multi-step speed command 4 / multi-step position command 4
	5: Reset
	6: JOG operation
	7: Acceleration / deceleration speed inhibit
	 8: 1st and 2nd acceleration / deceleration time selection
	9: 3rd and 4th acceleration / deceleration time
	selection
	10: EF Input (Pr.07-20)
	11: Base Block (B.B.) input from external 12: Output stop
	13: Cancel the setting for auto-acceleration /
	auto-deceleration time
	15: Rotating speed command from AVI 18:
	Forced to stop (Pr.07-20)
	19: Digital up command 20: Digital down command
	21: PID function disabled
	22: Clear the counter
	23: Input the counter value (MI4) 24: FWD JOG command
	25: REV JOG command
	28: Emergency stop (EF1)
	29: Signal confirmation for Y-connection 30: Signal confirmation for Δ -connection
	38: Disable write EEPROM function
	40: Force coasting to stop
	41: HAND switch 42: AUTO switch
	49: Enable Drive
	50: Master dEb input
	56: Local/Remote selection
	69: Auto-activate preheating function 71: Disable PID function, force PID output
	return to 0
	72: Disable PID function, retain the output
	value before disabled
	73: Force PID integral gain return to 0, disable integral
	74: Reverse PID feedback
	83: Multi-motors (IM) selection bit 0
	94: Programmable AUTO RUN
	95: Pausing AUTO RUN 97: Multi-pumps switch by Hand / Auto mode
	98: Simple positioning stop by forward limit
	99: Simple positioning stop by reverse limit
02-09	UP / DOWN key mode
02-10	Constant speed; acceleration / deceleration
	speed of UP/DOWN key
02-11	Multi-function input response time
02-12	Multi-function input mode selection
02-13	Multi-function output 1 RY1
02-16	Multi-function output 2 (MO1)
	0: No function 1: Indication during RUN
	2: Operation speed reached
	3: Desired frequency reached 1 (Pr.02-22)
	4: Desired frequency reached 2 (Pr.02-24) 5: Zero speed (Frequency command)
	6: Zero speed including STOP
	(Frequency command)
	7: Over-torque 1 (Pr.06-06-06-08) 8: Over-torque 2 (Pr.06-09-06-11)
	9: Drive is ready
	10: Low voltage warning (LV) (Pr.06-00)
	11: Malfunction indication
	13: Over-heat warning (Pr.06-15) 14: Software brake signal indication (Pr.07-00)
	15: PID feedback error
	16: Slip error (oSL)
	17: Count value reached; does not return to 0 (Pr.02-20)
	18: Count value reached; returns to 0(Pr.02-19
	19: External interrupt B.B. input (Base Block)
	20: Warning output 21: Over-voltage
	22: Over-current stall prevention
	23: Over-voltage stall prevention
	24: Operation source
	25: Forward command

02 Digital Input / Output Parameters

Default	_
1	
0	
0	
1 2	
3	
	<u> </u>
	<u> </u>
	03 A
0	
0.001	
0.005	
0000	<u> </u>
11	
0	

Pr.

Explanation

26: Reverse command

	 29: Output when frequency ≥ Pr.02-34 30: Output when frequency < Pr.02-34 31: Y-connection for the motor coil 32: Zero speed (actual output frequency) 34: Zero speed including STOP (actual output frequency) 35: Error output selection 1 (Pr.06-23) 36: Error output selection 2 (Pr.06-24) 37: Error output selection 4 (Pr.06-25) 38: Error output selection 4 (Pr.06-26) 40: Speed reached (including STOP) 42: Crane function 43: Motor speed slower than Pr.02-47 44: Low current output (use with Pr.06-71-06-73) 45: UVW output electromagnetic valve switch 46: Master dEb output 51: Output control for RS-485 66: SO output logic A (use with STO Card) 67: Analog input level reached 	
	68: SO output logic B (use with STO Card) 69: Indication of Preheating 75: Forward RUN status 76: Reverse RUN status 77: Program Running Indication	
	78: Program Step Completed Indication 79: Program Running Completed Indication 80: Program Running Paused Indication 81: Multi-pump system error display (only master)	
02-18	Multi-function output direction	0000
02-19	Terminal counting value reached (returns to 0) Preliminary counting value reached	0
02-20	(does not return to 0)	0
02-22	Desired frequency reached 1 Width of desired frequency reached 1	60.00 / 50.00 2.00
02-23	Desired frequency reached 2	60.00 / 50.00
02-25	Width of desired frequency reached 2	2.00
02-34	Output frequency setting for multi-function output terminal External operation control selection after reset	0.00
02-35	and activate	0
02-47	Motor zero-speed level	0
02-50	Display the status of multi-function input terminal Display the status of multi-function output	Read only
02-51	terminal Display the Frequency command executed by	Read only
02-54	external terminal	Read only
	Multi-function output terminal (function 42)	
02-58	Multi-function output terminal (function 42): brake frequency check point	0.00
02-58 02-72 02-73	brake frequency check point Level of Preheating DC Current	0.00
02-72	brake frequency check point	0
02-72 02-73	brake frequency check point Level of Preheating DC Current Preheating DC Current Duty Cycle EF active when terminal count value reached Initial Frequency command (F) mode after stop	0
02-72 02-73 02-81 02-82 02-83	brake frequency check point Level of Preheating DC Current Preheating DC Current Duty Cycle EF active when terminal count value reached Initial Frequency command (F) mode after stop Initial Frequency command (F) setting after stop	0 0 0
02-72 02-73 02-81 02-82 02-83	brake frequency check point Level of Preheating DC Current Preheating DC Current Duty Cycle EF active when terminal count value reached Initial Frequency command (F) mode after stop Initial Frequency command (F) setting after	0 0 0 0
02-72 02-73 02-81 02-82 02-83 Analog Inpu	brake frequency check point Level of Preheating DC Current Preheating DC Current Duty Cycle EF active when terminal count value reached Initial Frequency command (F) mode after stop Initial Frequency command (F) setting after stop t/ Output Parameters	0 0 0 0 60.00
02-72 02-73 02-81 02-82 02-83 Analog Inpu Pr. 03-00 03-03	brake frequency check point Level of Preheating DC Current Preheating DC Current Duty Cycle EF active when terminal count value reached Initial Frequency command (F) mode after stop Initial Frequency command (F) setting after stop t/ Output Parameters Explanation Analog input selection (AVI) 0: No function 1: Frequency command 4: PID target value 5: PID feedback signal 6: PTC thermistor input value 11: PT100 thermistor input value 13: PID compensation value Analog input bias (AVI)	0 0 0 60.00 Default
02-72 02-73 02-81 02-82 02-83 Analog Inpu Pr. 03-00 03-00 03-03 03-04	brake frequency check point Level of Preheating DC Current Preheating DC Current Duty Cycle EF active when terminal count value reached Initial Frequency command (F) mode after stop Initial Frequency command (F) setting after stop t/ Output Parameters Explanation Analog input selection (AVI) 0: No function 1: Frequency command 4: PID target value 5: PID feedback signal 6: PTC thermistor input value 11: PT100 thermistor input value Analog input bias (AVI) Analog input bias (ACI)	0 0 0 60.00 Default 1 0 0
02-72 02-73 02-81 02-82 02-83 Analog Inpu Pr. 03-00 03-03	brake frequency check point Level of Preheating DC Current Preheating DC Current Duty Cycle EF active when terminal count value reached Initial Frequency command (F) mode after stop Initial Frequency command (F) setting after stop t/ Output Parameters Explanation Analog input selection (AVI) 0: No function 1: Frequency command 4: PID target value 5: PID feedback signal 6: PTC thermistor input value 11: PT100 thermistor input value 13: PID compensation value Analog input bias (AVI)	0 0 0 60.00 Default
02-72 02-73 02-81 02-82 02-83 Analog Inpu Pr. 03-00 03-00 03-03 03-04 03-07	brake frequency check point Level of Preheating DC Current Preheating DC Current Duty Cycle EF active when terminal count value reached Initial Frequency command (F) mode after stop Initial Frequency command (F) setting after stop t/ Output Parameters Explanation Analog input selection (AVI) 0: No function 1: Frequency command 4: PID target value 5: PID feedback signal 6: PTC thermistor input value 11: PT100 thermistor input value 13: PID compensation value Analog input bias (AVI) Analog input bias (AVI) Positive / negative bias mode (AVI)	0 0 0 60.00 Default 1 0 0 0
02-72 02-73 02-81 02-82 02-83 Analog Inpu Pr. 03-00 03-00 03-03 03-04 03-07 03-08 03-10 03-11	brake frequency check point Level of Preheating DC Current Preheating DC Current Duty Cycle EF active when terminal count value reached Initial Frequency command (F) mode after stop Initial Frequency command (F) setting after stop tt / Output Parameters Explanation Analog input selection (AVI) 0: No function 1: Frequency command 4: PID target value 5: PID feedback signal 6: PTC thermistor input value 11: PT100 thermistor input value 13: PID compensation value Analog input bias (ACI) Positive / negative bias mode (AVI) Positive / negative bias mode (AVI) Reverse setting when analog signal input is negative frequency Analog input gain (AVI)	0 0 0 60.00 Default 1 1 0 0 0 0 0 0 0 0 0 0
02-72 02-73 02-81 02-82 02-83 Analog Inpu Pr. 03-00 03-03 03-04 03-07 03-08 03-10 03-11 03-12	brake frequency check point Level of Preheating DC Current Preheating DC Current Duty Cycle EF active when terminal count value reached Initial Frequency command (F) mode after stop Initial Frequency command (F) setting after stop t/ Output Parameters Explanation Analog input selection (AVI) 0: No function 1: Frequency command 4: PID target value 5: PID feedback signal 6: PTC thermistor input value 11: PT100 thermistor input value 11: PT100 thermistor input value 13: PID compensation value Analog input bias (AVI) Analog input bias (ACI) Positive / negative bias mode (AVI) Positive / negative bias mode (AVI) Reverse setting when analog signal input is negative frequency Analog input gain (AVI) Analog input gain (ACI)	0 0 0 60.00 Default 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
02-72 02-73 02-81 02-82 02-83 Analog Inpu Pr. 03-00 03-00 03-03 03-04 03-07 03-08 03-10 03-11	brake frequency check point Level of Preheating DC Current Preheating DC Current Duty Cycle EF active when terminal count value reached Initial Frequency command (F) mode after stop Initial Frequency command (F) setting after stop tt / Output Parameters Explanation Analog input selection (AVI) 0: No function 1: Frequency command 4: PID target value 5: PID feedback signal 6: PTC thermistor input value 11: PT100 thermistor input value 13: PID compensation value Analog input bias (ACI) Positive / negative bias mode (AVI) Positive / negative bias mode (AVI) Reverse setting when analog signal input is negative frequency Analog input gain (AVI)	0 0 0 60.00 Default 1 1 0 0 0 0 0 0 0 0 0 0
02-72 02-73 02-81 02-82 02-83 Analog Inpu Pr. 03-00 03-00 03-03 03-04 03-07 03-08 03-10 03-11 03-12 03-15	brake frequency check point Level of Preheating DC Current Preheating DC Current Duty Cycle EF active when terminal count value reached Initial Frequency command (F) mode after stop Initial Frequency command (F) setting after stop t/ Output Parameters Explanation Analog input selection (AVI) 0: No function 1: Frequency command 4: PID target value 5: PID feedback signal 6: PTC thermistor input value 11: PT100 thermistor input value 13: PID compensation value Analog input bias (AVI) Analog input bias (ACI) Positive / negative bias mode (AVI) Positive / negative bias mode (AVI) Reverse setting when analog signal input is negative frequency Analog input gain (AVI) Analog input gain (AVI) Analog input gain (AVI)	0 0 0 60.00 Default 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
02-72 02-73 02-81 02-82 02-83 Analog Inpu Pr. 03-00 03-00 03-03 03-04 03-07 03-08 03-10 03-11 03-12 03-15 03-16	brake frequency check point Level of Preheating DC Current Preheating DC Current Duty Cycle EF active when terminal count value reached Initial Frequency command (F) mode after stop Initial Frequency command (F) setting after stop tt / Output Parameters Explanation Analog input selection (AVI) 0: No function 1: Frequency command 4: PID target value 5: PID feedback signal 6: PTC thermistor input value 11: PT100 thermistor input value 11: PT100 thermistor input value 13: PID compensation value Analog input bias (AVI) Analog input bias (AVI) Positive / negative bias mode (AVI) Positive / negative bias mode (AVI) Reverse setting when analog signal input is negative frequency Analog input gain (AVI) Analog input gain (AVI) Analog input gain (AVI) Analog input gain (AVI) Analog input filter time (AVI) Analog input filter time (AVI) Signal loss selection for analog input 4–20 mA Multi-function output (AFM) 0: Output frequency (Hz) 1: Frequency command (Hz) 2: Motor speed (Hz) 3: Output voltage 5: DC BUS voltage 6: Power factor 7: Power 9: AVI 12: Iq current command 13: Iq feedback value 14: 4: dcurrent command 15: Id feedback value 16: Vq-axis voltage command 17: Vd-axis voltage command 17: Vd-axis voltage command 17: Vd-axis voltage command	0 0 0 60.00 Default 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
02-72 02-73 02-81 02-82 02-83 Analog Inpu Pr. 03-00 03-00 03-03 03-04 03-07 03-08 03-10 03-11 03-12 03-15 03-16 03-19 03-20	brake frequency check point Level of Preheating DC Current Preheating DC Current Duty Cycle EF active when terminal count value reached Initial Frequency command (F) mode after stop Initial Frequency command (F) setting after stop tr / Output Parameters Explanation Analog input selection (AVI) 0: No function 1: Frequency command 4: PID target value 5: PID feedback signal 6: PTC thermistor input value 11: PT100 thermistor input value 13: PID compensation value Analog input bias (ACI) Positive / negative bias mode (ACI) Reverse setting when analog signal input is negative frequency Analog input gain (ACI) Analog input gain (ACI) Analog input gain (ACI) Analog input filter time (ACI) Signal loss selection for analog input 4–20 mA Multi-function output (AFM) 0: Output frequency (Hz) 1: Frequency command (Hz) 2: Motor speed (Hz) 3: Output current (rms) 4: Output voltage 5: DC BUS voltage 6: Power factor 7: Power 9: AVI 12: Iq current command 13: Iq feedback value 14: Id current command 15: Id feedback value 16: Vq-axis voltage command 17: Vd-axis voltage command 17: Vd-axis voltage command 17: Nd-axis	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
02-72 02-73 02-81 02-82 02-83 Analog Inpu Pr. 03-00 03-00 03-00 03-03 03-04 03-07 03-04 03-07 03-08 03-10 03-11 03-12 03-15 03-16 03-19	brake frequency check point Level of Preheating DC Current Preheating DC Current Duty Cycle EF active when terminal count value reached Initial Frequency command (F) mode after stop Initial Frequency command (F) setting after stop tt / Output Parameters Explanation Analog input selection (AVI) 0: No function 1: Frequency command 4: PID target value 5: PID feedback signal 6: PTC thermistor input value 11: PT100 thermistor input value 13: PID compensation value Analog input bias (AVI) Analog input bias (AVI) Positive / negative bias mode (AVI) Positive / negative bias mode (AVI) Positive / negative bias mode (ACI) Reverse setting when analog signal input is negative frequency Analog input gain (AVI) Analog input gain (AVI) Analog input filter time (AVI) Analog input filter time (AVI) Analog input filter time (AVI) Signal loss selection for analog input 4–20 mA Multi-function output (AFM) 0: Output frequency (Hz) 1: Frequency command (Hz) 2: Motor speed (Hz) 3: Output voltage 5: DC BUS voltage 6: Power factor 7: Power 9: AVI 12: Iq current command 13: Iq feedback value 14: Id current command 15: Id feedback value 16: Vq-axis voltage command 17: Vd-axis voltage command 17: Vd-axis voltage output 23: Constant voltage output	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

Default

Pr. 03-28		D (11
	Explanation	Default
03-20	AVI terminal input selection	0
03-32	AFM DC output setting level	0.00
	· · · · · · · · · · · · · · · · · · ·	
03-35	AFM filter output time	0.01
	VR input selection	
03-39	0: Disable	1
	1: Frequency command	·
00.40		
03-40	VR Input Bias	0.0
03-41	VR Positive / Negative Bias	0.
	· · · · · · · · · · · · · · · · · · ·	
03-42	VR Gain	100.0
03-43	VR Filter Time	0.01
03-44	Multi-function MO output by AI level source	0
03-45	Al upper level 1	50
	<u>, , , , , , , , , , , , , , , , , , , </u>	
03-46	Al lower level 2	10
03-50	Analog input curve selection	0
03-57	ACI lowest point	4.00
03-58	ACI proportional lowest point	0.00
03-59	ACI mid-point	12.00
03-60	ACI proportional mid-point	50.00
03-61		20.00
03-61	ACI highest point	
03-62	ACI proportional highest point	100.00
03-63		0.00
	AVI voltage lowest point	0.00
03-64	AVI voltage proportional lowest point	0.00
03-65	AVI voltage mid-point	5.00
03-66	AVI voltage proportional mid-point	50.00
03-67	AVI voltage highest point	10.00
03-68	AVI voltage proportional highest point	100.00
A Multi et C		
	peed Parameters	
Pr.	Explanation	Default
04-00-04-14	1 st -15 th step speed frequency	0.00
		0.00
05 Motor Para	neters	
Pr.	Explanation	Default
	Motor parameter auto-tuning	
	0: No function	
05-00	1: Dynamic test for induction motor (IM)	0
00.00	2: Static test for induction motor (IM)	
	13: High frequency stall test for PM	
	synchronous motor	
05-01	1	#.##
	Full-load current for induction motor 1 (A)	
05-02	Rated power for induction motor 1 (kW)	#.##
05.00		1710
	Rated speed for induction motor 1 (rpm)	
05-03		4
05-03	Number of poles for induction motor 1	
05-04		
05-04 05-05	No-load current for induction motor 1 (A)	#.##
05-04	No-load current for induction motor 1 (A)	
05-04 05-05 05-06	No-load current for induction motor 1 (A) Stator resistance (Rs) for induction motor 1	#.## #.###
05-04 05-05	No-load current for induction motor 1 (A) Stator resistance (Rs) for induction motor 1 Rotor resistance (Rr) for induction motor 1	#.##
05-04 05-05 05-06 05-07	No-load current for induction motor 1 (A) Stator resistance (Rs) for induction motor 1	#.## #.### #.###
05-04 05-05 05-06	No-load current for induction motor 1 (A) Stator resistance (Rs) for induction motor 1 Rotor resistance (Rr) for induction motor 1	#.## #.###
05-04 05-05 05-06 05-07 05-08	No-load current for induction motor 1 (A) Stator resistance (Rs) for induction motor 1 Rotor resistance (Rr) for induction motor 1 Magnetizing inductance (Lm) for induction motor 1	#.## #.### #.### #.#
05-04 05-05 05-06 05-07 05-08 05-09	No-load current for induction motor 1 (A) Stator resistance (Rs) for induction motor 1 Rotor resistance (Rr) for induction motor 1 Magnetizing inductance (Lm) for induction motor 1 Stator inductance (Lx) for induction motor 1	#.## #.### #.###
05-04 05-05 05-06 05-07 05-08	No-load current for induction motor 1 (A) Stator resistance (Rs) for induction motor 1 Rotor resistance (Rr) for induction motor 1 Magnetizing inductance (Lm) for induction motor 1	#.## #.### #.### #.#
05-04 05-05 05-06 05-07 05-08 05-09 05-13	No-load current for induction motor 1 (A) Stator resistance (Rs) for induction motor 1 Rotor resistance (Rr) for induction motor 1 Magnetizing inductance (Lm) for induction motor 1 Stator inductance (Lx) for induction motor 1 Full-load current for induction motor 2 (A)	#.## #.### #.# #.# #.# #.#
05-04 05-05 05-06 05-07 05-08 05-09 05-13 05-14	No-load current for induction motor 1 (A) Stator resistance (Rs) for induction motor 1 Rotor resistance (Rr) for induction motor 1 Magnetizing inductance (Lm) for induction motor 1 Stator inductance (Lx) for induction motor 1 Full-load current for induction motor 2 (A) Rated power for induction motor 2 (kW)	#.## #.### #.# #.# #.# #.## #.##
05-04 05-05 05-06 05-07 05-08 05-09 05-13	No-load current for induction motor 1 (A) Stator resistance (Rs) for induction motor 1 Rotor resistance (Rr) for induction motor 1 Magnetizing inductance (Lm) for induction motor 1 Stator inductance (Lx) for induction motor 1 Full-load current for induction motor 2 (A)	#.## #.### #.# #.# #.# #.#
05-04 05-05 05-06 05-07 05-08 05-09 05-13 05-14 05-15	No-load current for induction motor 1 (A) Stator resistance (Rs) for induction motor 1 Rotor resistance (Rr) for induction motor 1 Magnetizing inductance (Lm) for induction motor 1 Stator inductance (Lx) for induction motor 1 Full-load current for induction motor 2 (A) Rated power for induction motor 2 (kW) Rated speed for induction motor 2 (rpm)	#.## #.### #.# #.# #.# #.## #.## 1710
05-04 05-05 05-06 05-07 05-08 05-09 05-13 05-14 05-15 05-16	No-load current for induction motor 1 (A) Stator resistance (Rs) for induction motor 1 Rotor resistance (Rr) for induction motor 1 Magnetizing inductance (Lm) for induction motor 1 Stator inductance (Lx) for induction motor 1 Full-load current for induction motor 2 (A) Rated power for induction motor 2 (kW) Rated speed for induction motor 2 (rpm) Number of poles for induction motor 2	#.## #.### #.# #.# #.# #.# 1710 4
05-04 05-05 05-06 05-07 05-08 05-09 05-13 05-14 05-15	No-load current for induction motor 1 (A) Stator resistance (Rs) for induction motor 1 Rotor resistance (Rr) for induction motor 1 Magnetizing inductance (Lm) for induction motor 1 Stator inductance (Lx) for induction motor 1 Full-load current for induction motor 2 (A) Rated power for induction motor 2 (kW) Rated speed for induction motor 2 (rpm)	#.## #.### #.# #.# #.# #.## #.## 1710
05-04 05-05 05-06 05-07 05-08 05-09 05-13 05-14 05-15 05-16 05-17	No-load current for induction motor 1 (A) Stator resistance (Rs) for induction motor 1 Rotor resistance (Rr) for induction motor 1 Magnetizing inductance (Lm) for induction motor 1 Stator inductance (Lx) for induction motor 1 Full-load current for induction motor 2 (A) Rated power for induction motor 2 (KW) Rated speed for induction motor 2 (rpm) Number of poles for induction motor 2 (A)	#.## #.### #.# #.# #.# 1710 4 #.##
05-04 05-05 05-06 05-07 05-08 05-09 05-13 05-14 05-15 05-16 05-17 05-18	No-load current for induction motor 1 (A) Stator resistance (Rs) for induction motor 1 Rotor resistance (Rr) for induction motor 1 Magnetizing inductance (Lm) for induction motor 1 Stator inductance (Lx) for induction motor 1 Full-load current for induction motor 2 (A) Rated power for induction motor 2 (kW) Rated speed for induction motor 2 (rpm) Number of poles for induction motor 2 (A) Stator resistance (Rs) for induction motor 2	#.## #.#### #.# #.# #.# 1710 4 #.## #.##
05-04 05-05 05-06 05-07 05-08 05-09 05-13 05-14 05-15 05-16 05-17	No-load current for induction motor 1 (A) Stator resistance (Rs) for induction motor 1 Rotor resistance (Rr) for induction motor 1 Magnetizing inductance (Lm) for induction motor 1 Stator inductance (Lx) for induction motor 1 Full-load current for induction motor 2 (A) Rated power for induction motor 2 (KW) Rated speed for induction motor 2 (rpm) Number of poles for induction motor 2 (A)	#.## #.### #.# #.# #.# 1710 4 #.##
05-04 05-05 05-06 05-07 05-08 05-09 05-13 05-14 05-15 05-16 05-17 05-18 05-19	No-load current for induction motor 1 (A) Stator resistance (Rs) for induction motor 1 Rotor resistance (Rr) for induction motor 1 Magnetizing inductance (Lm) for induction motor 1 Stator inductance (Lx) for induction motor 1 Full-load current for induction motor 2 (A) Rated power for induction motor 2 (kW) Rated speed for induction motor 2 (rpm) Number of poles for induction motor 2 (A) Stator resistance (Rs) for induction motor 2 Rotor resistance (Rr) for induction motor 2	#.## #.### #.# #.# #.## 1710 4 #.## #.### #.###
05-04 05-05 05-06 05-07 05-08 05-09 05-13 05-14 05-15 05-16 05-17 05-18	No-load current for induction motor 1 (A) Stator resistance (Rs) for induction motor 1 Rotor resistance (Rr) for induction motor 1 Magnetizing inductance (Lm) for induction motor 1 Stator inductance (Lx) for induction motor 1 Full-load current for induction motor 2 (A) Rated power for induction motor 2 (kW) Rated speed for induction motor 2 (kW) Rated speed for induction motor 2 (rpm) Number of poles for induction motor 2 (A) Stator resistance (Rs) for induction motor 2 Rotor resistance (Rr) for induction motor 2 Magnetizing inductance (Lm) for induction	#.## #.#### #.# #.# #.# 1710 4 #.## #.##
05-04 05-05 05-06 05-07 05-08 05-09 05-13 05-14 05-15 05-16 05-17 05-18 05-19 05-20	No-load current for induction motor 1 (A) Stator resistance (Rs) for induction motor 1 Rotor resistance (Rr) for induction motor 1 Magnetizing inductance (Lm) for induction motor 1 Stator inductance (Lx) for induction motor 1 Full-load current for induction motor 2 (A) Rated power for induction motor 2 (A) Rated speed for induction motor 2 (KW) Rated speed for induction motor 2 (rpm) Number of poles for induction motor 2 (A) Stator resistance (Rs) for induction motor 2 Rotor resistance (Rr) for induction motor 2 Magnetizing inductance (Lm) for induction motor 2	#.## #.### #.# #.# #.## 1710 4 #.## #.### #.### #.##
05-04 05-05 05-06 05-07 05-08 05-09 05-13 05-14 05-15 05-16 05-17 05-18 05-19	No-load current for induction motor 1 (A) Stator resistance (Rs) for induction motor 1 Rotor resistance (Rr) for induction motor 1 Magnetizing inductance (Lm) for induction motor 1 Stator inductance (Lx) for induction motor 1 Full-load current for induction motor 2 (A) Rated power for induction motor 2 (kW) Rated speed for induction motor 2 (kW) Rated speed for induction motor 2 (rpm) Number of poles for induction motor 2 (A) Stator resistance (Rs) for induction motor 2 Rotor resistance (Rr) for induction motor 2 Magnetizing inductance (Lm) for induction	#.## #.### #.# #.# #.## 1710 4 #.## #.### #.###
05-04 05-05 05-06 05-07 05-08 05-09 05-13 05-14 05-15 05-16 05-17 05-18 05-19 05-20 05-21	No-load current for induction motor 1 (A) Stator resistance (Rs) for induction motor 1 Rotor resistance (Rr) for induction motor 1 Magnetizing inductance (Lm) for induction motor 1 Stator inductance (Lx) for induction motor 1 Full-load current for induction motor 2 (A) Rated power for induction motor 2 (A) Rated speed for induction motor 2 (KW) Rated speed for induction motor 2 (RM) Number of poles for induction motor 2 (A) Stator resistance (Rs) for induction motor 2 Rotor resistance (Rr) for induction motor 2 Magnetizing inductance (Lm) for induction motor 2	#.## #.### #.# #.# #.## 1710 4 #.## #.## #.## #.#
05-04 05-05 05-06 05-07 05-08 05-09 05-13 05-14 05-15 05-16 05-17 05-18 05-19 05-20	No-load current for induction motor 1 (A) Stator resistance (Rs) for induction motor 1 Rotor resistance (Rr) for induction motor 1 Magnetizing inductance (Lm) for induction motor 1 Stator inductance (Lx) for induction motor 1 Full-load current for induction motor 2 (A) Rated power for induction motor 2 (KW) Rated speed for induction motor 2 (KW) Rated speed for induction motor 2 (R) No-load current for induction motor 2 (A) Stator resistance (Rs) for induction motor 2 Rotor resistance (Rr) for induction motor 2 Magnetizing inductance (Lm) for induction motor 2 Stator inductance (Lx) for induction motor 2 Magnetizing inductance (Lx) for induction motor 2 Multi-motors (induction) selection	#.## #.### #.# #.# #.## 1710 4 #.## #.### #.### #.##
05-04 05-05 05-06 05-07 05-08 05-09 05-13 05-14 05-15 05-16 05-17 05-18 05-19 05-20 05-21 05-22	No-load current for induction motor 1 (A) Stator resistance (Rs) for induction motor 1 Rotor resistance (Rr) for induction motor 1 Magnetizing inductance (Lm) for induction motor 1 Stator inductance (Lx) for induction motor 1 Full-load current for induction motor 2 (A) Rated power for induction motor 2 (KW) Rated speed for induction motor 2 (KW) Number of poles for induction motor 2 (N) Stator resistance (Rs) for induction motor 2 Rotor resistance (Rr) for induction motor 2 Magnetizing inductance (Lm) for induction motor 2 Stator inductance (Lx) for induction motor 2 Magnetizing inductance (Lx) for induction motor 2 Stator inductance (Lx) for induction Frequency for Y-connection /Δ-connection	#.## #.### #.# #.# #.## 1710 4 #.## #.## #.## #.# #.# #.# 1
05-04 05-05 05-06 05-07 05-08 05-09 05-13 05-14 05-15 05-16 05-17 05-18 05-19 05-20 05-21	No-load current for induction motor 1 (A) Stator resistance (Rs) for induction motor 1 Rotor resistance (Rr) for induction motor 1 Magnetizing inductance (Lm) for induction motor 1 Stator inductance (Lx) for induction motor 1 Full-load current for induction motor 2 (A) Rated power for induction motor 2 (KW) Rated speed for induction motor 2 (KW) Rated speed for induction motor 2 (R) No-load current for induction motor 2 (A) Stator resistance (Rs) for induction motor 2 Rotor resistance (Rr) for induction motor 2 Magnetizing inductance (Lm) for induction motor 2 Stator inductance (Lx) for induction motor 2 Magnetizing inductance (Lx) for induction motor 2 Multi-motors (induction) selection	#.## #.### #.# #.# #.## 1710 4 #.## #.## #.## #.#
05-04 05-05 05-06 05-07 05-08 05-09 05-13 05-14 05-15 05-16 05-17 05-18 05-19 05-20 05-21 05-22 05-22	No-load current for induction motor 1 (A) Stator resistance (Rs) for induction motor 1 Rotor resistance (Rr) for induction motor 1 Magnetizing inductance (Lm) for induction motor 1 Stator inductance (Lx) for induction motor 1 Full-load current for induction motor 2 (A) Rated power for induction motor 2 (kW) Rated speed for induction motor 2 (kW) Number of poles for induction motor 2 No-load current for induction motor 2 (A) Stator resistance (Rs) for induction motor 2 Rotor resistance (Rr) for induction motor 2 Magnetizing inductance (Lm) for induction motor 2 Stator inductance (Lx) for induction motor 2 Multi-motors (induction) selection Frequency for Y-connection /Δ-connection switch for an induction motor	#.## #.### #.# #.# #.## 1710 4 #.## #.## #.# #.# #.# 1 60.00
05-04 05-05 05-06 05-07 05-08 05-09 05-13 05-14 05-15 05-16 05-17 05-18 05-19 05-20 05-21 05-22	No-load current for induction motor 1 (A) Stator resistance (Rs) for induction motor 1 Rotor resistance (Rr) for induction motor 1 Magnetizing inductance (Lm) for induction motor 1 Stator inductance (Lx) for induction motor 1 Full-load current for induction motor 2 (A) Rated power for induction motor 2 (KW) Rated speed for induction motor 2 (KW) Rated speed for induction motor 2 (rpm) Number of poles for induction motor 2 No-load current for induction motor 2 Rotor resistance (Rs) for induction motor 2 Rotor resistance (Rr) for induction motor 2 Stator inductance (Lm) for induction motor 2 Stator inductance (Lx) for induction Frequency for Y-connection /Δ-connection Y-connection /Δ-connection switch for an	#.## #.### #.# #.# #.## 1710 4 #.## #.## #.## #.# #.# #.# 1
05-04 05-05 05-06 05-07 05-08 05-09 05-13 05-14 05-15 05-16 05-17 05-18 05-19 05-20 05-21 05-22 05-22	No-load current for induction motor 1 (A) Stator resistance (Rs) for induction motor 1 Rotor resistance (Rr) for induction motor 1 Magnetizing inductance (Lm) for induction motor 1 Stator inductance (Lx) for induction motor 1 Full-load current for induction motor 2 (A) Rated power for induction motor 2 (A) Rated speed for induction motor 2 (KW) Rated speed for induction motor 2 (RN) Number of poles for induction motor 2 No-load current for induction motor 2 (A) Stator resistance (Rs) for induction motor 2 Rotor resistance (Rr) for induction motor 2 Magnetizing inductance (Lm) for induction motor 2 Stator inductance (Lx) for induction motor 2 Multi-motors (induction) selection Frequency for Y-connection /Δ-connection switch for an induction switch for an induction motor	#.## #.### #.# #.# #.## 1710 4 #.## #.## #.# #.# #.# 1 60.00
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05-04 05-05 05-06 05-07 05-08 05-13 05-13 05-14 05-15 05-16 05-16 05-17 05-18 05-19 05-20 05-21 05-22 05-23 05-24 05-25	No-load current for induction motor 1 (A) Stator resistance (Rs) for induction motor 1 Rotor resistance (Rr) for induction motor 1 Magnetizing inductance (Lm) for induction motor 1 Stator inductance (Lx) for induction motor 1 Full-load current for induction motor 2 (A) Rated power for induction motor 2 (KW) Rated speed for induction motor 2 (RW) Number of poles for induction motor 2 (A) Stator resistance (Rs) for induction motor 2 No-load current for induction motor 2 (A) Stator resistance (Rs) for induction motor 2 Magnetizing inductance (Lm) for induction motor 2 Stator inductance (Lx) for induction motor 2 Multi-motors (induction) selection Frequency for Y-connection /Δ-connection switch for an induction motor Delay time for Y-connection /Δ-connection switch for an induction motor	#.## #.### #.# #.# #.# 1710 4 #.## #.## #.# #.# 1 60.00 0 0 0.200
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05-04 05-05 05-06 05-07 05-08 05-13 05-13 05-14 05-15 05-16 05-16 05-17 05-18 05-19 05-20 05-21 05-22 05-23 05-24 05-25	No-load current for induction motor 1 (A) Stator resistance (Rs) for induction motor 1 Rotor resistance (Rr) for induction motor 1 Magnetizing inductance (Lm) for induction motor 1 Stator inductance (Lx) for induction motor 1 Full-load current for induction motor 2 (A) Rated power for induction motor 2 (kW) Rated speed for induction motor 2 (kW) Rated speed for induction motor 2 (kW) Rated speed for induction motor 2 (A) Stator resistance (Rs) for induction motor 2 No-load current for induction motor 2 (A) Stator resistance (Rs) for induction motor 2 Rotor resistance (Rr) for induction motor 2 Magnetizing inductance (Lm) for induction motor 2 Stator inductance (Lx) for induction motor 2 Multi-motors (induction motor Y-connection /Δ-connection /Δ-connection switch for an induction motor Delay time for Y-connection /Δ-connection Accumulated Watt-hour for a motor (W-hour)	#.## #.### #.# #.# #.# 1710 4 #.## #.## #.# #.# 1 60.00 0 0 0.200
05-04 05-05 05-06 05-07 05-08 05-09 05-13 05-14 05-15 05-16 05-17 05-18 05-19 05-20 05-21 05-22 05-22 05-23 05-24 05-25 05-28	No-load current for induction motor 1 (A) Stator resistance (Rs) for induction motor 1 Rotor resistance (Rr) for induction motor 1 Magnetizing inductance (Lm) for induction motor 1 Stator inductance (Lx) for induction motor 1 Full-load current for induction motor 2 (A) Rated power for induction motor 2 (A) Rated speed for induction motor 2 (A) Number of poles for induction motor 2 (A) Stator resistance (Rs) for induction motor 2 Rotor resistance (Rs) for induction motor 2 Rotor resistance (Lx) for induction motor 2 Stator inductance (Lm) for induction motor 2 Stator inductance (Lm) for induction motor 2 Stator inductance (Lx) for induction Frequency for Y-connection /Δ-connection switch for an induction motor Y-connection /Δ-connection switch for an induction motor Accumulated Watt-hour for a motor (W-hour) Accumulated Watt-hour for a motor in low word (kW-hour)	#.## #.### #.# #.# #.# 1710 4 #.## #.# #.# 4 #.# #.# 1 60.00 0 0 0.200 0.0
05-04 05-05 05-06 05-07 05-08 05-09 05-13 05-14 05-15 05-16 05-17 05-18 05-19 05-20 05-21 05-22 05-22 05-23 05-24 05-25 05-28	No-load current for induction motor 1 (A) Stator resistance (Rs) for induction motor 1 Rotor resistance (Rr) for induction motor 1 Magnetizing inductance (Lm) for induction motor 1 Stator inductance (Lx) for induction motor 1 Full-load current for induction motor 2 (A) Rated power for induction motor 2 (A) Rated speed for induction motor 2 (KW) Rated speed for induction motor 2 (R) Number of poles for induction motor 2 (A) Stator resistance (Rs) for induction motor 2 Magnetizing inductance (Lm) for induction motor 2 Stator inductance (Lx) for induction motor 2 Magnetizing inductance (Lm) for induction motor 2 Stator inductance (Lx) for induction motor 2 Multi-motors (induction) selection Frequency for Y-connection /Δ-connection switch for an induction motor Delay time for Y-connection /Δ-connection switch for an induction motor Accumulated Watt-hour for a motor in low word (kW-hour) Accumulated Watt-hour for a motor in high	#.## #.### #.# #.# #.# 1710 4 #.## #.# #.# 4 #.# #.# 1 60.00 0 0 0.200 0.0
05-04 05-05 05-06 05-07 05-08 05-13 05-14 05-15 05-16 05-17 05-18 05-17 05-20 05-21 05-22 05-22 05-23 05-24 05-25 05-28 05-29	No-load current for induction motor 1 (A) Stator resistance (Rs) for induction motor 1 Rotor resistance (Rr) for induction motor 1 Magnetizing inductance (Lm) for induction motor 1 Stator inductance (Lx) for induction motor 1 Full-load current for induction motor 2 (A) Rated power for induction motor 2 (A) Rated speed for induction motor 2 (A) Number of poles for induction motor 2 (A) Stator resistance (Rs) for induction motor 2 Rotor resistance (Rs) for induction motor 2 Rotor resistance (Lx) for induction motor 2 Stator inductance (Lm) for induction motor 2 Stator inductance (Lm) for induction motor 2 Stator inductance (Lx) for induction Frequency for Y-connection /Δ-connection switch for an induction motor Y-connection /Δ-connection switch for an induction motor Accumulated Watt-hour for a motor (W-hour) Accumulated Watt-hour for a motor in low word (kW-hour)	#.## #.### #.# #.# #.## 1710 4 #.## #.# #.# 1 60.00 0 0 0.200 0.0 0.0
05-04 05-05 05-06 05-07 05-08 05-13 05-14 05-15 05-16 05-17 05-18 05-19 05-20 05-21 05-22 05-23 05-24 05-22 05-25 05-28 05-29 05-30	No-load current for induction motor 1 (A) Stator resistance (Rs) for induction motor 1 Rotor resistance (Rr) for induction motor 1 Magnetizing inductance (Lm) for induction motor 1 Stator inductance (Lx) for induction motor 1 Full-load current for induction motor 2 (A) Rated power for induction motor 2 (A) Rated speed for induction motor 2 (KW) Rated speed for induction motor 2 (RW) Number of poles for induction motor 2 (A) Stator resistance (Rs) for induction motor 2 Magnetizing inductance (Lm) for induction motor 2 Stator inductance (Lm) for induction Frequency for Y-connection /Δ-connection switch for an induction motor Polay time for Y-connection /Δ-connection switch for an induction motor Delay time for Y-connection /Δ-connection switch for an induction motor Accumulated Watt-hour for a motor in low word (kW-hour) Accumulated Watt-hour for a motor in high word (MW-hour)	#.## #.### #.# #.# #.# 1710 4 #.## #.# #.# 1 60.00 0 0 0.200 0 0.200 0.0 0.0
05-04 05-05 05-06 05-07 05-08 05-09 05-13 05-14 05-15 05-16 05-17 05-18 05-17 05-18 05-19 05-20 05-22 05-22 05-23 05-24 05-25 05-28 05-29 05-30 05-31	No-load current for induction motor 1 (A) Stator resistance (Rs) for induction motor 1 Rotor resistance (Rr) for induction motor 1 Magnetizing inductance (Lm) for induction motor 1 Stator inductance (Lx) for induction motor 1 Full-load current for induction motor 2 (A) Rated power for induction motor 2 (kW) Rated speed for induction motor 2 (A) Stator resistance (Rs) for induction motor 2 Rotor resistance (Rs) for induction motor 2 Magnetizing inductance (Lm) for induction motor 2 Stator inductance (Lx) for induction motor 2 Multi-motors (induction selection Frequency for Y-connection /Δ-connection switch for an induction motor Y-connection /Δ-connection /Δ-connection switch for an induction motor Accumulated Watt-hour for a motor in low word (kW-hour) Accumulated motor operation time (minutes)	#.## #.### #.# #.# #.## 1710 4 #.## #.# #.# 1 60.00 0 0 0.200 0.0 0.0 0.0 0.0 0.0
05-04 05-05 05-06 05-07 05-08 05-13 05-14 05-15 05-16 05-17 05-18 05-19 05-20 05-21 05-22 05-23 05-24 05-22 05-25 05-28 05-29 05-30	No-load current for induction motor 1 (A) Stator resistance (Rs) for induction motor 1 Rotor resistance (Rr) for induction motor 1 Magnetizing inductance (Lm) for induction motor 1 Stator inductance (Lx) for induction motor 1 Full-load current for induction motor 2 (A) Rated power for induction motor 2 (KW) Rated speed for induction motor 2 (KW) Rated speed for induction motor 2 (RW) Number of poles for induction motor 2 No-load current for induction motor 2 Rotor resistance (Rs) for induction motor 2 Rotor resistance (Rr) for induction motor 2 Stator inductance (Lm) for induction motor 2 Stator inductance (Lx) for induction motor 2 Stator inductance (Lx) for induction Frequency for Y-connection /Δ-connection Switch for an induction motor Y-connection /Δ-connection Sumptime for Y-connection /Δ-connection switch for an induction motor Accumulated Watt-hour for a motor in low word (kW-hour) Accumulated motor operation time (minutes) Accumulated motor operation time (days)	#.## #.### #.# #.# #.# 1710 4 #.## #.# #.# 1 60.00 0 0 0.200 0 0.200 0.0 0.0
05-04 05-05 05-06 05-07 05-08 05-09 05-13 05-14 05-15 05-16 05-17 05-18 05-17 05-18 05-17 05-20 05-20 05-22 05-23 05-24 05-25 05-28 05-29 05-30 05-31	No-load current for induction motor 1 (A) Stator resistance (Rs) for induction motor 1 Rotor resistance (Rr) for induction motor 1 Magnetizing inductance (Lm) for induction motor 1 Stator inductance (Lx) for induction motor 1 Full-load current for induction motor 2 (A) Rated power for induction motor 2 (A) Rated speed for induction motor 2 (A) Number of poles for induction motor 2 (A) No-load current for induction motor 2 (A) Stator resistance (Rs) for induction motor 2 No-load current for induction motor 2 (A) Stator resistance (Rs) for induction motor 2 Rotor resistance (Rr) for induction motor 2 Magnetizing inductance (Lm) for induction motor 2 Stator inductance (Lx) for induction motor 2 Multi-motors (induction) selection Frequency for Y-connection /Δ-connection switch for an induction motor Y-connection /Δ-connection /Δ-connection switch for an induction motor Accumulated Watt-hour for a motor in low word (kW-hour) Accumulated motor operation time (minutes) Accumulated motor operation time (days) Induction motor (IM) or permanent magnet	#.## #.### #.# #.# #.## 1710 4 #.## #.# #.# 1 60.00 0 0 0.200 0.0 0.0 0.0 0.0 0.0
05-04 05-05 05-06 05-07 05-08 05-13 05-14 05-15 05-16 05-17 05-17 05-17 05-18 05-19 05-20 05-21 05-22 05-23 05-24 05-22 05-23 05-24 05-25 05-28 05-29 05-30 05-31 05-32	No-load current for induction motor 1 (A) Stator resistance (Rs) for induction motor 1 Rotor resistance (Rr) for induction motor 1 Magnetizing inductance (Lm) for induction motor 1 Stator inductance (Lx) for induction motor 1 Full-load current for induction motor 2 (A) Rated power for induction motor 2 (KW) Rated speed for induction motor 2 (KW) Rated speed for induction motor 2 (KW) Rated speed for induction motor 2 (No-load current for induction motor 2 (A) Stator resistance (Rs) for induction motor 2 No-load current for induction motor 2 (A) Stator resistance (Rs) for induction motor 2 Rotor resistance (Rs) for induction motor 2 Magnetizing inductance (Lm) for induction motor 2 Stator inductance (Lx) for induction motor 2 Multi-motors (induction switch for an induction motor Y-connection /Δ-connection /Δ-connection switch for an induction motor Accumulated Watt-hour for a motor in low word (kW-hour) Accumulated Watt-hour for a motor in ligh word (MW-hour) Accumulated motor operation time (minutes) Accumulated motor operation time (days) Induction motor selection	#.## #.### #.# #.# #.# 1710 4 #.## #.# #.# 1 60.00 0 0 0.200 0 0 0.200 0 0.0 0 0.0 0 0.0 0 0.0
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05-04 05-05 05-06 05-07 05-08 05-13 05-14 05-15 05-16 05-17 05-17 05-17 05-18 05-19 05-20 05-21 05-22 05-23 05-24 05-22 05-23 05-24 05-25 05-28 05-29 05-30 05-31 05-32	No-load current for induction motor 1 (A) Stator resistance (Rs) for induction motor 1 Rotor resistance (Rr) for induction motor 1 Magnetizing inductance (Lm) for induction motor 1 Stator inductance (Lx) for induction motor 1 Full-load current for induction motor 2 (A) Rated power for induction motor 2 (A) Rated speed for induction motor 2 (A) Rated speed for induction motor 2 (A) Number of poles for induction motor 2 (A) Stator resistance (Rs) for induction motor 2 Rotor resistance (Rs) for induction motor 2 Magnetizing inductance (Lm) for induction motor 2 Stator inductance (Lx) for induction motor 2 Multi-motors (induction) selection Frequency for Y-connection /Δ-connection switch for an induction motor Y-connection /Δ-connection switch for an induction motor Accumulated Watt-hour for a motor in low word (kW-hour) Accumulated motor operation time (minutes) Accumulated motor operation time (days) Induction motor 1: SPM	#.## #.### #.# #.# #.# 1710 4 #.## #.# #.# 1 60.00 0 0 0.200 0 0 0.200 0 0.0 0.0 0.0 0
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05-04 05-05 05-06 05-07 05-08 05-09 05-13 05-14 05-15 05-16 05-17 05-18 05-19 05-20 05-21 05-22 05-23 05-24 05-25 05-28 05-28 05-29 05-30 05-31 05-32	No-load current for induction motor 1 (A) Stator resistance (Rs) for induction motor 1 Rotor resistance (Rr) for induction motor 1 Magnetizing inductance (Lm) for induction motor 1 Stator inductance (Lx) for induction motor 1 Full-load current for induction motor 2 (A) Rated power for induction motor 2 (A) Rated speed for induction motor 2 (A) Rated speed for induction motor 2 (A) Number of poles for induction motor 2 (A) Stator resistance (Rs) for induction motor 2 Rotor resistance (Rs) for induction motor 2 Magnetizing inductance (Lm) for induction motor 2 Stator inductance (Lx) for induction motor 2 Multi-motors (induction) selection Frequency for Y-connection /Δ-connection switch for an induction motor Y-connection /Δ-connection switch for an induction motor Accumulated Watt-hour for a motor in low word (kW-hour) Accumulated motor operation time (minutes) Accumulated motor operation time (days) Induction motor 1: SPM	#.## #.## #.## #.## 1710 4 #.## 1710 4 #.## 1710 60.00 0 0.200 0.0 0.0 0.0 0 0 0 0 0
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Pr.	Parameters (1) Explanation	Default
06-00	Low voltage level	180.0 / 360.0
06-01	Over-voltage stall prevention	380.0 / 760.0
06-02	Selection for over-voltage stall prevention	0
06-03	Over-current stall prevention during acceleration	120 / 180
06-04	Over-current stall prevention during operation	120 / 180
06-05	Acceleration / deceleration time selection for	0
	stall prevention at constant speed	
06-06	Over-torque detection selection (motor 1)	0
06-07	Over-torque detection level (motor 1) Over-torque detection time (motor 1)	0.1
06-09	Over-torque detection time (motor 1)	0.1
06-10	Over-torque detection level (motor 2)	120
06-11	Over-torque detection time (motor 2)	0.1
06-13	Electronic thermal relay selection (motor 1)	2
06-14	Electronic thermal relay action time (motor 1)	60.0
06-15	Temperature level over-heat (OH) warning	105.0
06-16	Stall prevention limit level	100
06-17-06-22	Fault record 1–6 Fault output option 1-4	0
06-27	Electronic thermal relay selection (motor 2)	2
06-28	Electronic thermal relay selection (motor 2)	60.0
06-29	PTC detection selection	0
06-30	PTC level	50.0
06-31	Frequency command for malfunction	Read only
06-32	Output frequency at malfunction	Read only
06-33	Output voltage at malfunction	Read only
06-34	DC voltage at malfunction	Read only
06-35	Output current at malfunction	Read only
06-36	IGBT temperature at malfunction	Read only
06-38	Motor speed at malfunction Status of the multi-function input terminal at	Read only
06-40	malfunction Status of the multi-function output terminal at	Read only
06-41	malfunction Drive status at malfunction	Read only Read only
06-44	STO latch selection	0
06-45	Output phase loss detection (OPHL) action	3
06-46	Detection time of output phase loss	0.500
06-47	Current detection level for output phase loss	1.00
06-48	DC brake time of output phase loss	0.000
06-49	LvX auto-reset	0
06-53	Detected input phase loss (OrP) action	0
06-55	Derating protection PT100 voltage level 1	5.000
06-57	PT100 voltage level 2	7.000
06-58	PT100 level 1 frequency protection	0.00
06-59	Delay time for activating PT100 level 1	60
06-60	frequency protection Software detection GFF current level	60.0
06-61	Software detection GFF filter time	0.10
	Operation time of fault record 1–4	
06-63–06-70	(Days / Minutes)	Read only
06-71	Low current setting level	0.0
06-72	Low current detection time	0.00
06-73	Low current action Operation time of fault record 5–6	0
06-90-06-93	(Day / Minutes)	Read only
7 Special Par Pr.	ameters Explanation	Default
07-00	Software brake level	370.0 / 740.0
	DC brake current level	0
07-01		0.0
07-01 07-02	DC brake time at RUN	0.0
	DC brake time at RUN DC brake time at stop	0.0
07-02 07-03 07-04	DC brake time at stop DC brake frequency at stop	0.0
07-02 07-03	DC brake time at stop DC brake frequency at stop Voltage increasing gain	0.0
07-02 07-03 07-04	DC brake time at stop DC brake frequency at stop	0.0
07-02 07-03 07-04	DC brake time at stop DC brake frequency at stop Voltage increasing gain Restart after momentary power loss 0: Stop operation 1: Speed tracking by speed before the power	0.0 0.00
07-02 07-03 07-04 07-05	DC brake time at stop DC brake frequency at stop Voltage increasing gain Restart after momentary power loss 0: Stop operation 1: Speed tracking by speed before the power loss 2: Speed tracking by minimum output	0.0 0.00 100
07-02 07-03 07-04 07-05 07-06	DC brake time at stop DC brake frequency at stop Voltage increasing gain Restart after momentary power loss 0: Stop operation 1: Speed tracking by speed before the power loss 2: Speed tracking by minimum output frequency	0.0 0.00 100 0
07-02 07-03 07-04 07-05 07-06 07-07	DC brake time at stop DC brake frequency at stop Voltage increasing gain Restart after momentary power loss 0: Stop operation 1: Speed tracking by speed before the power loss 2: Speed tracking by minimum output frequency Allowed power loss duration	0.0 0.00 100 0 2.0
07-02 07-03 07-04 07-05 07-06 07-07 07-07	DC brake time at stop DC brake frequency at stop Voltage increasing gain Restart after momentary power loss 0: Stop operation 1: Speed tracking by speed before the power loss 2: Speed tracking by minimum output frequency Allowed power loss duration Base Block time	0.0 0.00 100 0 2.0 0.5
07-02 07-03 07-04 07-05 07-06 07-07 07-08 07-09	DC brake time at stop DC brake frequency at stop Voltage increasing gain Restart after momentary power loss 0: Stop operation 1: Speed tracking by speed before the power loss 2: Speed tracking by minimum output frequency Allowed power loss duration Base Block time Current limit of speed tracking	0.0 0.00 100 0 2.0 0.5 100
07-02 07-03 07-04 07-05 07-06 07-07 07-08 07-09 07-10	DC brake time at stop DC brake frequency at stop Voltage increasing gain Restart after momentary power loss 0: Stop operation 1: Speed tracking by speed before the power loss 2: Speed tracking by minimum output frequency Allowed power loss duration Base Block time Current limit of speed tracking Restart after fault action	0.0 0.00 100 0 2.0 0.5 100 0
07-02 07-03 07-04 07-05 07-06 07-07 07-08 07-09	DC brake time at stop DC brake frequency at stop Voltage increasing gain Restart after momentary power loss 0: Stop operation 1: Speed tracking by speed before the power loss 2: Speed tracking by minimum output frequency Allowed power loss duration Base Block time Current limit of speed tracking Restart after fault action Number of times of auto-restart after fault	0.0 0.00 100 0 2.0 0.5 100
07-02 07-03 07-04 07-05 07-06 07-07 07-08 07-09 07-10 07-11	DC brake time at stop DC brake frequency at stop Voltage increasing gain Restart after momentary power loss 0: Stop operation 1: Speed tracking by speed before the power loss 2: Speed tracking by minimum output frequency Allowed power loss duration Base Block time Current limit of speed tracking Restart after fault action	0.0 0.00 100 0 2.0 0.5 100 0 0
07-02 07-03 07-04 07-05 07-06 07-07 07-08 07-09 07-10 07-11 07-11 07-12 07-13	DC brake time at stop DC brake frequency at stop Voltage increasing gain Restart after momentary power loss 0: Stop operation 1: Speed tracking by speed before the power loss 2: Speed tracking by minimum output frequency Allowed power loss duration Base Block time Current limit of speed tracking Restart after fault action Number of times of auto-restart after fault Speed tracking during start-up dEb function selection Dwell time / frequency at acceleration /	0.0 0.00 100 0 2.0 0.5 100 0 0 0 0 0 0
07-02 07-03 07-04 07-05 07-06 07-07 07-08 07-09 07-10 07-11 07-12 07-13 07-15-07-18	DC brake time at stop DC brake frequency at stop Voltage increasing gain Restart after momentary power loss 0: Stop operation 1: Speed tracking by speed before the power loss 2: Speed tracking by minimum output frequency Allowed power loss duration Base Block time Current limit of speed tracking Restart after fault action Number of times of auto-restart after fault Speed tracking during start-up dEb function selection Dwell time / frequency at acceleration / deceleration	0.0 0.00 100 0 2.0 0.5 100 0 0 0 0 0 0 0 0 0 0 0
07-02 07-03 07-04 07-05 07-06 07-07 07-08 07-09 07-10 07-11 07-12 07-13 07-15-07-18 07-19	DC brake time at stop DC brake frequency at stop Voltage increasing gain Restart after momentary power loss 0: Stop operation 1: Speed tracking by speed before the power loss 2: Speed tracking by minimum output frequency Allowed power loss duration Base Block time Current limit of speed tracking Restart after fault action Number of times of auto-restart after fault Speed tracking during start-up dEb function selection Dwell time / frequency at acceleration / deceleration Fan cooling control	0.0 0.00 100 0 2.0 0.5 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
07-02 07-03 07-04 07-05 07-06 07-07 07-08 07-09 07-10 07-11 07-12 07-13 07-15-07-18 07-19 07-20	DC brake time at stop DC brake frequency at stop Voltage increasing gain Restart after momentary power loss 0: Stop operation 1: Speed tracking by speed before the power loss 2: Speed tracking by minimum output frequency Allowed power loss duration Base Block time Current limit of speed tracking Restart after fault action Number of times of auto-restart after fault Speed tracking during start-up dEb function selection Dwell time / frequency at acceleration / deceleration Fan cooling control	0.0 0.00 100 0 2.0 0.5 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
07-02 07-03 07-04 07-05 07-06 07-06 07-07 07-08 07-09 07-10 07-11 07-12 07-13 07-15-07-18 07-19 07-20 07-21	DC brake time at stop DC brake frequency at stop Voltage increasing gain Restart after momentary power loss 0: Stop operation 1: Speed tracking by speed before the power loss 2: Speed tracking by minimum output frequency Allowed power loss duration Base Block time Current limit of speed tracking Restart after fault action Number of times of auto-restart after fault Speed tracking during start-up dEb function selection Dwell time / frequency at acceleration / deceleration Fan cooling control Deceleration of emergency or forced stop Automatic energy-saving selection	0.0 0.00 100 0 2.0 0.5 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
07-02 07-03 07-04 07-05 07-06 07-07 07-08 07-09 07-10 07-11 07-12 07-13 07-15-07-18 07-19 07-20	DC brake time at stop DC brake frequency at stop Voltage increasing gain Restart after momentary power loss 0: Stop operation 1: Speed tracking by speed before the power loss 2: Speed tracking by minimum output frequency Allowed power loss duration Base Block time Current limit of speed tracking Restart after fault action Number of times of auto-restart after fault Speed tracking during start-up dEb function selection Dwell time / frequency at acceleration / deceleration Fan cooling control	0.0 0.00 100 0 2.0 0.5 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

Pr.		
	Explanation	Default
07-25	Slip compensation filter time	0.100
07-26	(V/F and SVC control mode) Torque compensation gain	1
07-20	Slip compensation gain	I
07-27	(V/F and SVC control mode)	0.00
07-29	Slip deviation level	0
07-30	Slip deviation detection time	1.0
07-31	Slip deviation action	0
07-32	Motor shock compensation factor	1000
07-33	Auto-restart interval of fault	60.0
07-43	Average PWM signal	1
07-44	PWM signal period	1
07-62	dEb gain	8000
07-71	Torque compensation gain (motor 2)	1
07-72	Slip compensation gain (motor 2)	0.00
	on PID Parameters	Defeut
Pr.	Explanation Terminal selection of PID feedback 0: No function	Default
	1: Negative PID feedback: by analog input	
	(Pr.03-00)	
08-00	4: Positive PID feedback: by analog input (Pr.03-00)	0
	7: Negative PID feedback: by communication	
	protocol	
	8: Positive PID feedback: by communication	
08-01	protocol Proportional gain (P)	1.0 / 1.00
08-02	Integral time (I) Differential time (D)	1.00
08-03		0.00
08-04	Upper limit of integral control	100.0
08-05	PID output command limit (positive limit)	100.0
08-06	PID feedback value by communication protocol	0.00
08-07	PID delay time	0.0
08-08	Feedback signal detection time	0.0
08-09	Feedback signal fault treatment	0
08-10	Sleep frequency	0.00
08-11	Wake-up frequency	0.00
08-12	Sleep time	0.0
08-13	PID deviation level	10.0
08-14	PID deviation time	5.0
08-15	PID feedback filter time	5.0
08-16	PID compensation selection	0
08-17	PID compensation	0
08-18	Sleep mode function setting	0
08-19	Wake-up integral limit	50.0
08-20	PID mode selection	0
08-21	Enable PID to change the operation direction	0
08-22	Wake-up delay time	0.00
08-23	PID control flag	
08-26	PID output command limit (reverse limit) PID command acceleration / deceleration time	100.0
08-27	Feedback of PID physical quantity value	0.00
	Feedback of FID physical quantity value	
08-61	Treatment of the arrangeus DID feedback level	
	Treatment of the erroneous PID feedback level	0
08-61	Delay time for restart of erroneous PID	
08-61 08-62 08-63	Delay time for restart of erroneous PID deviation level	0 60
08-61 08-62 08-63 08-64	Delay time for restart of erroneous PID	0
08-61 08-62 08-63 08-64	Delay time for restart of erroneous PID deviation level Number of times of restart after PID error	0 60
08-61 08-62 08-63 08-64 0 Communica	Delay time for restart of erroneous PID deviation level Number of times of restart after PID error tion Parameters	0 60 0
08-61 08-62 08-63 08-64 Communica Pr.	Delay time for restart of erroneous PID deviation level Number of times of restart after PID error tion Parameters Explanation	0 60 0 Default
08-61 08-62 08-63 08-64 0 Communica Pr. 09-00	Delay time for restart of erroneous PID deviation level Number of times of restart after PID error tion Parameters Explanation Communication address	0 60 0 Default 1
08-61 08-62 08-63 08-64 9 Communica Pr. 09-00 09-01	Delay time for restart of erroneous PID deviation level Number of times of restart after PID error tion Parameters Explanation Communication address COM1 transmission speed COM1 transmission fault treatment COM1 time-out detection	0 60 0 Default 1 9.6
08-61 08-62 08-63 08-64 0 Communica Pr. 09-00 09-01 09-02	Delay time for restart of erroneous PID deviation level Number of times of restart after PID error tion Parameters Explanation Communication address COM1 transmission speed COM1 transmission fault treatment COM1 time-out detection COM1 communication protocol	0 60 0 Default 1 9.6 3
08-61 08-62 08-63 08-64 9 Communica Pr. 09-00 09-01 09-02	Delay time for restart of erroneous PID deviation level Number of times of restart after PID error tion Parameters Explanation Communication address COM1 transmission speed COM1 transmission fault treatment COM1 time-out detection COM1 communication protocol 1: 7N2 (ASCII)	0 60 0 Default 1 9.6 3
08-61 08-62 08-63 08-64 9 Communica Pr. 09-00 09-01 09-02	Delay time for restart of erroneous PID deviation level Number of times of restart after PID error tion Parameters Explanation Communication address COM1 transmission speed COM1 transmission fault treatment COM1 time-out detection COM1 communication protocol	0 60 0 Default 1 9.6 3
08-61 08-62 08-63 08-64 0 Communica Pr. 09-00 09-01 09-02	Delay time for restart of erroneous PID deviation level Number of times of restart after PID error tion Parameters Explanation Communication address COM1 transmission speed COM1 transmission fault treatment COM1 time-out detection COM1 communication protocol 1: 7N2 (ASCII) 2: 7E1 (ASCII) 3: 7D1 (ASCII) 4: TE2 (ASCII)	0 60 0 Default 1 9.6 3
08-61 08-62 08-63 08-64 0 Communica Pr. 09-00 09-01 09-02	Delay time for restart of erroneous PID deviation level Number of times of restart after PID error tion Parameters Explanation Communication address COM1 transmission speed COM1 transmission fault treatment COM1 time-out detection COM1 communication protocol 1: 7N2 (ASCII) 2: 7E1 (ASCII) 2: 7E1 (ASCII) 5: 7O2 (ASCII) 5: 7O2 (ASCII)	0 60 0 Default 1 9.6 3
08-61 08-62 08-63 08-64 0 Communica Pr. 09-00 09-01 09-02	Delay time for restart of erroneous PID deviation level Number of times of restart after PID error tion Parameters Explanation Communication address COM1 transmission speed COM1 transmission fault treatment COM1 time-out detection COM1 communication protocol 1: 7N2 (ASCII) 2: 7E1 (ASCII) 3: 7D1 (ASCII) 4: TE2 (ASCII)	0 60 0 Default 1 9.6 3
08-61 08-62 08-63 08-64 9 Communice Pr. 09-00 09-01 09-02 09-03	Delay time for restart of erroneous PID deviation level Number of times of restart after PID error tion Parameters Communication address COM1 transmission speed COM1 transmission fault treatment COM1 time-out detection COM1 communication protocol 1: TN2 (ASCII) 2: TE1 (ASCII) 2: TE1 (ASCII) 3: 701 (ASCII) 4: 7E2 (ASCII) 5: 702 (ASCII) 6: 8N1 (ASCII) 7: 8N2 (ASCII) 8: 8E1 (ASCII)	0 60 0 Default 1 9.6 3 0.0
08-61 08-62 08-63 08-64 9 Communica Pr. 09-00 09-01 09-02	Delay time for restart of erroneous PID deviation level Number of times of restart after PID error tion Parameters Explanation Communication address COM1 transmission speed COM1 transmission fault treatment COM1 time-out detection COM1 communication protocol 1: TN2 (ASCII) 2: TE1 (ASCII) 2: TE1 (ASCII) 3: 701 (ASCII) 4: TE2 (ASCII) 5: 702 (ASCII) 5: 702 (ASCII) 6: 8N1 (ASCII) 7: 8N2 (ASCII) 9: 801 (ASCII) 9: 801 (ASCII)	0 60 0 Default 1 9.6 3
08-61 08-62 08-63 08-64 9 Communica Pr. 09-00 09-01 09-02 09-03	Delay time for restart of erroneous PID deviation level Number of times of restart after PID error tion Parameters Communication address COM1 transmission speed COM1 transmission fault treatment COM1 time-out detection COM1 communication protocol 1: TN2 (ASCII) 2: TE1 (ASCII) 2: TE1 (ASCII) 3: 701 (ASCII) 4: 7E2 (ASCII) 5: 702 (ASCII) 6: 8N1 (ASCII) 7: 8N2 (ASCII) 8: 8E1 (ASCII)	0 60 0 Default 1 9.6 3 0.0
08-61 08-62 08-63 08-64 9 Communica Pr. 09-00 09-01 09-02 09-03	Delay time for restart of erroneous PID deviation level Number of times of restart after PID error tion Parameters Explanation Communication address COM1 transmission speed COM1 transmission fault treatment COM1 time-out detection COM1 communication protocol 1: TN2 (ASCII) 2: TE1 (ASCII) 2: TE1 (ASCII) 3: 701 (ASCII) 4: TE2 (ASCII) 5: 702 (ASCII) 6: 8N1 (ASCII) 7: 8N2 (ASCII) 9: 801 (ASCII) 9: 801 (ASCII) 10: 8E2 (ASCII) 11: 802 (ASCII) 11: 802 (ASCII) 12: 8N1 (RTU)	0 60 0 Default 1 9.6 3 0.0
08-61 08-62 08-63 08-64 9 Communice Pr. 09-00 09-01 09-02 09-03	Delay time for restart of erroneous PID deviation level Number of times of restart after PID error tion Parameters Communication address COM1 transmission speed COM1 transmission fault treatment COM1 time-out detection COM1 communication protocol 1: TN2 (ASCII) 2: 7E1 (ASCII) 2: 7E1 (ASCII) 3: 7O1 (ASCII) 4: 7E2 (ASCII) 5: 7O2 (ASCII) 5: 7O2 (ASCII) 6: 8N1 (ASCII) 7: 8N2 (ASCII) 9: 8O1 (ASCII) 10: 8E2 (ASCII) 10: 8E2 (ASCII) 11: 802 (ASCII) 12: 8N1 (RTU) 13: 8N2 (RTU)	0 60 0 Default 1 9.6 3 0.0
08-61 08-62 08-63 08-64 9 Communica Pr. 09-00 09-01 09-02 09-03	Delay time for restart of erroneous PID deviation level Number of times of restart after PID error tion Parameters Explanation Communication address COM1 transmission speed COM1 transmission fault treatment COM1 transmission fault treatment COM1 communication protocol 1: TN2 (ASCII) 2: TE1 (ASCII) 2: TE1 (ASCII) 3: 701 (ASCII) 4: 7E2 (ASCII) 5: 702 (ASCII) 6: 8N1 (ASCII) 7: 8N2 (ASCII) 9: 801 (ASCII) 10: 8E2 (ASCII) 11: 802 (ASCII) 11: 802 (ASCII) 11: 802 (ASCII) 12: 8N1 (RTU) 13: 8N2 (RTU)	0 60 0 Default 1 9.6 3 0.0
08-61 08-62 08-63 08-64 9 Communica Pr. 09-00 09-01 09-02 09-03	Delay time for restart of erroneous PID deviation level Number of times of restart after PID error tion Parameters Communication address COM1 transmission speed COM1 transmission fault treatment COM1 time-out detection COM1 communication protocol 1: TN2 (ASCII) 2: 7E1 (ASCII) 2: 7E1 (ASCII) 3: 7O1 (ASCII) 4: 7E2 (ASCII) 5: 7O2 (ASCII) 5: 7O2 (ASCII) 6: 8N1 (ASCII) 7: 8N2 (ASCII) 9: 8O1 (ASCII) 10: 8E2 (ASCII) 10: 8E2 (ASCII) 11: 802 (ASCII) 12: 8N1 (RTU) 12: 8N1 (RTU) 13: 8N2 (RTU) 14: 8E1 (RTU) 15: 801 (RTU)	0 60 0 Default 1 9.6 3 0.0
08-61 08-62 08-63 9 Communica 9 Communica 9 Communica 09-00 09-01 09-02 09-03	Delay time for restart of erroneous PID deviation level Number of times of restart after PID error tion Parameters Explanation Communication address COM1 transmission speed COM1 transmission fault treatment COM1 transmission fault treatment COM1 communication protocol 1: TN2 (ASCII) 2: TE1 (ASCII) 2: 7E1 (ASCII) 3: 701 (ASCII) 4: TE2 (ASCII) 5: 702 (ASCII) 6: 8N1 (ASCII) 7: 8N2 (ASCII) 8: 8E1 (ASCII) 9: 801 (ASCII) 10: 8E2 (ASCII) 11: 802 (ASCII) 11: 802 (ASCII) 12: 8N1 (RTU) 13: 801 (RTU) 14: 8E1 (RTU) 15: 802 (RTU)	0 60 0 <u>Default</u> 1 9.6 3 0.0
08-61 08-62 08-63 9 Communice Pr. 09-00 09-01 09-02 09-03 09-04	Delay time for restart of erroneous PID deviation level Number of times of restart after PID error tion Parameters Communication address COM1 transmission speed COM1 transmission speed COM1 transmission fault treatment COM1 time-out detection COM1 communication protocol 1: TN2 (ASCII) 2: TE1 (ASCII) 2: TE1 (ASCII) 3: 701 (ASCII) 4: 7E2 (ASCII) 5: 702 (ASCII) 6: 8N1 (ASCII) 7: 8N2 (ASCII) 9: 801 (ASCII) 10: 8E2 (ASCII) 11: 802 (ASCII) 11: 802 (ASCII) 11: 802 (ASCII) 12: 8N1 (RTU) 13: 8N2 (RTU) 14: 8E1 (RTU) 15: 801 (RTU) 15: 802 (RTU) 17: 802 (RTU)	0 60 0 Default 1 9.6 3 0.0
08-61 08-62 08-63 08-64 9 Communica Pr. 09-00 09-01 09-02 09-03 09-04	Delay time for restart of erroneous PID deviation level Number of times of restart after PID error tion Parameters Communication address COM1 transmission speed COM1 transmission fault treatment COM1 transmission fault treatment COM1 communication protocol 1: TN2 (ASCII) 2: TE1 (ASCII) 2: TE1 (ASCII) 3: 701 (ASCII) 4: 7E2 (ASCII) 5: 702 (ASCII) 6: 8N1 (ASCII) 7: 8N2 (ASCII) 8: 8E1 (ASCII) 9: 801 (ASCII) 10: 8E2 (ASCII) 11: 802 (ASCII) 11: 802 (ASCII) 12: 8N1 (RTU) 13: 8N2 (RTU) 14: 8E1 (RTU) 15: 801 (RTU) 15: 801 (RTU) 17: 802 (RTU) 17: 802 (RTU) 17: 802 (RTU) 17: 802 (RTU) 17: 802 (RTU)	0 60 0 Default 1 9.6 3 0.0 1 1 2.0 60.00
08-61 08-62 08-63 08-64 9 Communica Pr. 09-00 09-01 09-02 09-03 09-03 09-04	Delay time for restart of erroneous PID deviation level Number of times of restart after PID error tion Parameters Communication address COM1 transmission speed COM1 transmission fault treatment COM1 transmission fault treatment COM1 communication protocol 1: TN2 (ASCII) 2: TE1 (ASCII) 2: TE1 (ASCII) 3: 701 (ASCII) 4: TE2 (ASCII) 5: 702 (ASCII) 6: 8N1 (ASCII) 6: 8N1 (ASCII) 9: 801 (ASCII) 9: 801 (ASCII) 11: 802 (ASCII) 11: 802 (ASCII) 12: 8N1 (RTU) 13: 8N2 (RTU) 14: 8E1 (RTU) 15: 801 (RTU) 15: 801 (RTU) 16: 8E2 (RTU) 17: 802 (RTU) Communication response delay time Communication main frequency Block transfer 1–16	0 60 0 Default 1 9.6 3 0.0 1 1 2.0 60.00 0
08-61 08-62 08-63 08-64 9 Communica Pr. 09-00 09-01 09-02 09-03 09-03 09-04 09-04	Delay time for restart of erroneous PID deviation level Number of times of restart after PID error tion Parameters Explanation Communication address COM1 transmission speed COM1 transmission fault treatment COM1 transmission fault treatment COM1 tommunication protocol 1: TN2 (ASCII) 2: TE1 (ASCII) 2: TE1 (ASCII) 3: TO1 (ASCII) 4: TE2 (ASCII) 5: TO2 (ASCII) 6: 8N1 (ASCII) 7: 8N2 (ASCII) 9: 8O1 (ASCII) 9: 8O1 (ASCII) 11: 802 (ASCII) 11: 802 (ASCII) 12: 8N1 (RTU) 13: 8N2 (RTU) 14: 8E1 (RTU) 15: 801 (RTU) 15: 801 (RTU) 17: 802 (RTU) 17: 802 (RTU) Communication response delay time Communication main frequency Block transfer 1–16 Communication decoding method	0 60 0 Default 1 9.6 3 0.0 1 1 2.0 60.00 0 1
08-61 08-62 08-63 08-64 9 Communica Pr. 09-00 09-01 09-02 09-03 09-03 09-04 09-04	Delay time for restart of erroneous PID deviation level Number of times of restart after PID error tion Parameters Explanation Communication address COM1 transmission speed COM1 transmission fault treatment COM1 transmission fault treatment COM1 tommunication protocol 1: TN2 (ASCII) 2: TE1 (ASCII) 2: TE1 (ASCII) 3: TO1 (ASCII) 4: TE2 (ASCII) 5: TO2 (ASCII) 6: 8N1 (ASCII) 7: 8N2 (ASCII) 9: 801 (ASCII) 10: 8E2 (ASCII) 11: 802 (ASCII) 11: 802 (ASCII) 12: 8N1 (RTU) 13: 8N2 (RTU) 14: 8E1 (RTU) 15: 801 (RTU) 15: 801 (RTU) 16: 8E2 (RTU) 17: 802 (RTU) Communication response delay time Communication main frequency Block transfer 1–16 Communication Protocol	0 60 0 Default 1 9.6 3 0.0 1 1 2.0 60.00 0
08-61 08-62 08-63 08-64 9 Communica Pr. 09-00 09-01 09-02 09-03 09-03 09-04 09-04 09-09 09-10 09-10 09-11 09-11-09-26 09-31 0 Speed Feed	Delay time for restart of erroneous PID deviation level Number of times of restart after PID error tion Parameters Explanation Communication address COM1 transmission speed COM1 transmission fault treatment COM1 time-out detection COM1 communication protocol 1: 7N2 (ASCII) 2: 7E1 (ASCII) 2: 7E1 (ASCII) 3: 7O1 (ASCII) 4: 7E2 (ASCII) 5: 7O2 (ASCII) 5: 7O2 (ASCII) 6: 8N1 (ASCII) 7: 8N2 (ASCII) 9: 8O1 (ASCII) 10: 8E2 (ASCII) 10: 8E2 (ASCII) 11: 802 (ASCII) 12: 8N1 (RTU) 13: 8N2 (RTU) 14: 8E1 (RTU) 15: 801 (RTU) 16: 8E2 (RTU) 17: 802 (RTU) 16: 8E2 (RTU) 17: 802 (RTU) 16: 8E2 (RTU) 17: 802 (RTU) 16: 8E2 (RTU) 17: 802 (RTU) 16: 8E3 (RTU) 16: 8E4 (RTU) 17: 802 (RTU) 16: 8E5 (RTU) 17: 802 (RTU) 17: 802 (RTU) 17: 802 (RTU) 16: 8E5 (RTU) 17: 802 (RTU) 17: 802 (RTU) 16: 8E5 (RTU) 17: 802 (RTU) 16: 8E5 (RTU) 17: 802 (RTU) 16: 8E5 (RTU) 17: 802	0 60 0 Default 1 9.6 3 0.0 1 1 2.0 60.00 0 1 0
08-61 08-62 08-63 08-64 9 Communica Pr. 09-00 09-01 09-02 09-03 09-03 09-04 09-04 09-09 09-10 09-11-09-26 09-31 0 Speed Feed Pr.	Delay time for restart of erroneous PID deviation level Number of times of restart after PID error tion Parameters Communication address COM1 transmission speed COM1 transmission speed COM1 transmission fault treatment COM1 transmission fault treatment COM1 communication protocol 1: TN2 (ASCII) 2: 7E1 (ASCII) 2: 7E1 (ASCII) 3: 7O1 (ASCII) 4: 7E2 (ASCII) 5: 7O2 (ASCII) 6: 8N1 (ASCII) 7: 8N2 (ASCII) 9: 801 (ASCII) 10: 8E2 (ASCII) 10: 8E2 (ASCII) 11: 802 (ASCII) 12: 8N1 (ASCII) 13: 8N2 (RTU) 14: 8E1 (RTU) 15: 801 (RTU) 15: 802 (RTU) 17: 802 (RTU) 17: 802 (RTU) 17: 802 (RTU) 17: 802 (RTU) 17: 802 (RTU) 17: 802 (RTU) 16: 8E2 (RTU) 17: 802 (RTU	0 60 0 Default 1 9.6 3 0.0 1 1 2.0 60.00 0 1 0 Default
08-61 08-62 08-63 08-64 9 Communica Pr. 09-00 09-01 09-02 09-03 09-03 09-04 09-04 09-04 09-09 09-10 09-11 09-11-09-26 09-30 09-31 0 Speed Feed Pr. 10-16	Delay time for restart of erroneous PID deviation level Number of times of restart after PID error tion Parameters Communication address COM1 transmission speed COM1 transmission speed COM1 transmission fault treatment COM1 transmission fault treatment COM1 communication protocol 1: TN2 (ASCII) 2: TE1 (ASCII) 3: TO1 (ASCII) 4: TE2 (ASCII) 5: TO2 (ASCII) 6: 8N1 (ASCII) 7: 8N2 (ASCII) 10: 8E2 (ASCII) 10: 8E2 (ASCII) 11: 802 (ASCII) 11: 802 (ASCII) 12: 8N1 (RTU) 13: 8N2 (RTU) 14: 8E1 (RTU) 15: 801 (RTU) 15: 802 (RTU) 17: 802 (RTU) 17: 802 (RTU) 17: 802 (RTU) 17: 802 (RTU) 17: 802 (RTU) 17: 802 (RTU) 16: 8E2 (RTU) 17: 802 (RTU) 17: 802 (RTU) 16: 8E2 (RTU) 17: 802 (RTU) 17: 802 (RTU) 16: 8E2 (RTU) 17: 802 (RTU) 16: 8E2 (RTU) 17: 802 (RTU) 17: 802 (RTU) 16: 8E2 (RTU) 17: 802 (RTU) 16: 8E2 (RTU) 17: 802 (RTU) 16: 8E2 (RTU) 17: 802 (RTU) 16: 8E2 (RTU) 17: 802 (RTU) 17: 802 (RTU) 17: 802 (RTU) 17: 802 (RTU) 17: 802 (RTU) 17: 802 (RTU) 16: 8E2 (RTU) 17: 802 (RTU)	0 60 0 Default 1 9.6 3 0.0 1 1 2.0 60.00 0 1 0 Default 0
08-61 08-62 08-63 08-64 9 Communica Pr. 09-00 09-01 09-02 09-03 09-03 09-04 09-04 09-04 09-04 09-04 09-09 09-10 09-11-09-26 09-30 09-31 0 Speed Feed Pr. 10-16 10-29	Delay time for restart of erroneous PID deviation level Number of times of restart after PID error tion Parameters Explanation Communication address COM1 transmission speed COM1 transmission fault treatment COM1 transmission fault treatment COM1 transmission fault treatment COM1 transmission protocol 1: TN2 (ASCII) 2: TE1 (ASCII) 3: 701 (ASCII) 4: 7E2 (ASCII) 5: 702 (ASCII) 6: 8N1 (ASCII) 7: 8N2 (ASCII) 6: 8N1 (ASCII) 9: 801 (ASCII) 10: 8E2 (ASCII) 11: 802 (ASCII) 11: 802 (ASCII) 12: 8N1 (RTU) 13: 8N2 (RTU) 14: 8E1 (RTU) 15: 801 (RTU) 15: 802 (RTU) 17: 802 (RTU) 17: 802 (RTU) 17: 802 (RTU) 17: 802 (RTU) Communication response delay time Communication main frequency Block transfer 1–16 Communication Protocol back Control Parameters Explanation Pulse input type setting Top limit of frequency deviation	0 60 0 Default 1 9.6 3 0.0 1 1 2.0 60.00 0 1 0 Default 0 20.00
08-61 08-62 08-63 08-64 9 Communica Pr. 09-00 09-01 09-02 09-03 09-03 09-04 09-04 09-04 09-09 09-10 09-11 09-11-09-26 09-30 09-31 0 Speed Feed Pr. 10-16	Delay time for restart of erroneous PID deviation level Number of times of restart after PID error tion Parameters Communication address COM1 transmission speed COM1 transmission speed COM1 transmission fault treatment COM1 transmission fault treatment COM1 communication protocol 1: TN2 (ASCII) 2: TE1 (ASCII) 3: TO1 (ASCII) 4: TE2 (ASCII) 5: TO2 (ASCII) 6: 8N1 (ASCII) 7: 8N2 (ASCII) 10: 8E2 (ASCII) 10: 8E2 (ASCII) 11: 802 (ASCII) 11: 802 (ASCII) 12: 8N1 (RTU) 13: 8N2 (RTU) 14: 8E1 (RTU) 15: 801 (RTU) 15: 802 (RTU) 17: 802 (RTU) 17: 802 (RTU) 17: 802 (RTU) 17: 802 (RTU) 17: 802 (RTU) 17: 802 (RTU) 16: 8E2 (RTU) 17: 802 (RTU) 17: 802 (RTU) 16: 8E2 (RTU) 17: 802 (RTU) 17: 802 (RTU) 16: 8E2 (RTU) 17: 802 (RTU) 16: 8E2 (RTU) 17: 802 (RTU) 17: 802 (RTU) 16: 8E2 (RTU) 17: 802 (RTU) 16: 8E2 (RTU) 17: 802 (RTU) 16: 8E2 (RTU) 17: 802 (RTU) 16: 8E2 (RTU) 17: 802 (RTU)	0 60 0 Default 1 9.6 3 0.0 1 1 2.0 60.00 0 1 0 Default 0

Pr.	Explanation
10-34	PM sensorless speed estimator low-pass filter
	gain
10-42	Initial angle detection pulse value
10-49	Zero voltage time during start-up
10-51	Injection frequency
10-52 10-53	Injection magnitude Position detection method
11 Advanced P	
Pr.	Explanation
11-00	System control
	PWM mode selection
11-41	0: Two-phase
11-42	2: Space vector System control flag
	, ,
12 Function Pa Pr.	Explanation
12-00	Set point deviation level
12-01	Detection time of set point deviation level
12-02	Offset level of liquid leakage
12-03	Liquid leakage change detection
12-04	Time setting for liquid leakage change
	Multi-pump control mode
12-05	0: Disable 1: Fixed time circulation (alternative operation)
	2: Fixed quantity control
10.07	(multi-pump operating at constant pressure)
12-07	Multi-pump's fixed time circulation period
12-08	Frequency to start switching pumps Time detected when pump reaches the
12-09	starting frequency
12-10	Frequency to stop switching pumps
12-11	Time detected when pump reaches the
	stopping frequency
12-12	Pump's frequency at time-out (disconnection)
12-13	Pump's error treatment
12-14	Selection of pump start-up sequence
12-15	Running time of multi-pump under alternative operation
12-16	Assign the setting for Pr.08-13 PID feedback
12-10	level
12-20	Simple positioning stop frequency 0
12-21	Simple positioning stop frequency 1
12-22	Simple positioning stop frequency 2
12-23 12-24	Simple positioning stop frequency 3
12-24	Simple positioning stop frequency 4 Simple positioning stop frequency 5
12-26	Simple positioning stop frequency 6
12-27	Simple positioning stop frequency 7
12-28-12-35	Delay time of simple positioning stop 0–7
	Automatic operation mode
	0: Disable operation 1: Execute one program cycle
	2: Continuously execute program cycles
12-40	3: Execute one program cycle step by step 4: Continuously execute one program cycle
	step by step
	5: Disable automatic operation, but the direction setting at multi-step speed 1 to 7
	are effective
12-41	PLC program running direction mode
12-42	Main frequency time setting
12-43-12-49	1 st –7 th speed time setting
	r-Defined Macro
Pr. 13-00	Explanation Application selection
13-01-13-50	Application parameters (user-defined)
14 Protection F	
Pr.	Explanation
14-50	Output frequency at malfunction 2
14-51	DC voltage at malfunction 2
14-52	Output current at malfunction 2
14-53 14-54	IGBT temperature at malfunction 2 Output frequency at malfunction 3
14-55	DC voltage at malfunction 3
14-56	Output current at malfunction 3
14-57	
14-58	IGBT temperature at malfunction 3
	Output frequency at malfunction 4
14-59	Output frequency at malfunction 4 DC voltage at malfunction 4
14-59 14-60	Output frequency at malfunction 4 DC voltage at malfunction 4 Output current at malfunction 4
14-59 14-60 14-61	Output frequency at malfunction 4 DC voltage at malfunction 4 Output current at malfunction 4 IGBT temperature at malfunction 4
14-59 14-60 14-61 14-62	Output frequency at malfunction 4 DC voltage at malfunction 4 Output current at malfunction 4 IGBT temperature at malfunction 4 Output frequency at malfunction 5
14-59 14-60 14-61	Output frequency at malfunction 4 DC voltage at malfunction 4 Output current at malfunction 4 IGBT temperature at malfunction 4
14-59 14-60 14-61 14-62 14-63	Output frequency at malfunction 4 DC voltage at malfunction 4 Output current at malfunction 4 IGBT temperature at malfunction 4 Output frequency at malfunction 5 DC voltage at malfunction 5
14-59 14-60 14-61 14-62 14-63 14-64 14-65 14-66	Output frequency at malfunction 4 DC voltage at malfunction 4 Output current at malfunction 4 IGBT temperature at malfunction 4 Output frequency at malfunction 5 DC voltage at malfunction 5 Output current at malfunction 5 Output frequency at malfunction 5 Output frequency at malfunction 5
14-59 14-60 14-61 14-62 14-63 14-64 14-65 14-66 14-67	Output frequency at malfunction 4 DC voltage at malfunction 4 Output current at malfunction 4 IGBT temperature at malfunction 5 Output frequency at malfunction 5 DC voltage at malfunction 5 Output current at malfunction 5 Output current at malfunction 5 Output current at malfunction 5 IGBT temperature at malfunction 5 Output frequency at malfunction 5 Output frequency at malfunction 6 DC voltage at malfunction 6
14-59 14-60 14-61 14-62 14-63 14-63 14-64 14-65 14-66 14-67 14-68	Output frequency at malfunction 4 DC voltage at malfunction 4 Output current at malfunction 4 IGBT temperature at malfunction 5 DC voltage at malfunction 5 DC voltage at malfunction 5 Output current at malfunction 5 Output current at malfunction 5 Output current at malfunction 5 Output frequency at malfunction 6 DC voltage at malfunction 6 Output frequency at malfunction 6
14-59 14-60 14-61 14-62 14-63 14-63 14-64 14-65 14-66 14-67 14-68 14-69	Output frequency at malfunction 4 DC voltage at malfunction 4 Output current at malfunction 4 IGBT temperature at malfunction 5 DC voltage at malfunction 5 Output current at malfunction 5 Output frequency at malfunction 5 Output current at malfunction 6 Output frequency at malfunction 6 Output current at malfunction 6 DC voltage at malfunction 6 DC upt current at malfunction 6
14-59 14-60 14-61 14-62 14-63 14-63 14-64 14-65 14-66 14-67 14-68	Output frequency at malfunction 4 DC voltage at malfunction 4 Output current at malfunction 4 IGBT temperature at malfunction 5 DC voltage at malfunction 5 DC voltage at malfunction 5 Output current at malfunction 5 Output current at malfunction 5 Output current at malfunction 5 Output frequency at malfunction 6 DC voltage at malfunction 6 Output frequency at malfunction 6

	Default	•	Troubleshooting
ər	1.00	ID No.	Fault Name
	1.0	0	N/A
	00.000	1	ocA: Over-current during acceleration
	500	2	ocd: Over-current during deceleration
	15.0 / 30.0	3	ocn: Over-current during steady operation
	0	4	GFF: Ground fault
		6	ocS: Over-current at stop
	Default	7	ovA: Over-voltage during acceleration
	0	8	ovd: Over-voltage during deceleration
	2	9	ovn: Over-voltage at constant speed
	2	10	ovS: Over-voltage at stop
	0000	11	LvA: Low-voltage during acceleration
		12	Lvd: Low-voltage during deceleration
	Default	13	Lvn: Low-voltage at constant speed
	0	14	LvS: Low-voltage at stop
	10	15	orP: Phase loss protection
	0	16	oH1: IGBT overheating
	0	18	tH1o: IGBT temperature detection failure
	0.5	21	oL: Overload
Τ		22	EoL1: Electronic thermal relay 1 protection
n)	0	23	EoL2: Electronic thermal relay 2 protection oH3: Motor overheating PTC / PT100
"/	Ŭ	24	ot1: Over-torque 1
e)		20	ot2: Over-torque 2
	60	28	uC: Under current
	60.00	31	cF2: EEPROM read error
	1.0	33	cd1: U-phase error
-	40.00	34	cd2: V-phase error
	48.00	35	cd3: W-phase error
	1.0	36	Hd0: cc Hardware failure
)	0.00	37	Hd1: oc Hardware failure
-	1	40	AUE: Auto-tuning error
	1	41	AFE: PID loss ACI
•	60.0	48	ACE: ACI loss
	60.0	49	EF: External fault
	0	50	EF1: Emergency stop
		51	bb: External base block
	0.00	52	Pcod: Password is locked
_	5.00	54	CE1: Illegal command
_	10.00	55	CE2: Illegal data address
-	20.00	56	CE3: Illegal data value
-	30.00	57	CE4: Data is written to read-only address
	40.00	58	CE10: Modbus transmission time-out
	60.00	61	ydc: Y-connection / Δ-connection switch error
	0.00	63	oSL: Over-slip
	0.00	72	S1: S1 internal loop detection error
		76	STo: Safe Torque Off
		77	S2: S2 internal loop detection error
	<u> </u>	78	STL3: S3 internal loop detection error
	0	79	Aoc: U-phase short circuit
		80	Boc: V-phase short circuit
,		81	Coc: W-phase short circuit
		82	oPHL: Output phase loss U phase
	0	83	oPHL: Output phase loss V phase
	0	84	oPHL: Output phase loss W phase
	0	87	oL3: Overload protection at low frequency
		89	roPd: Rotor position detection error
	Default	140	Hd6: GFF detected when power is on
	00	141	b4GFF: GFF occurs before running AUE1: Auto-tune error 1
		142	AUE1: Auto-tune error 1 AUE2: Auto-tune error 2
	Default	143	AUE3: Auto-tune error 3
	Read only	144	Note. Nato-tane error o
	i todu Ulily		

Delault				
Read only				
0				