

December 15, 2023

Industrial Device Business Division,  
Panasonic Industry Co., Ltd.

**Software Update (Ver.1.15) Notice  
for AC Servo Driver (MINAS A6SE/A6SF/A6SG Series)**

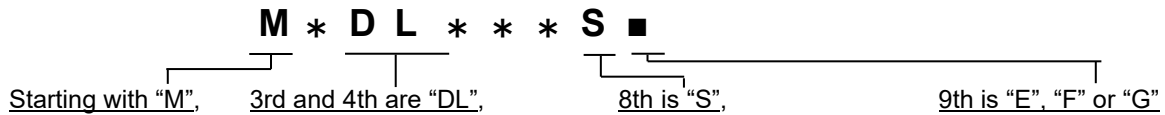
Thank you for your daily support and efforts to our business.

As described below, we will update the software version for MINAS A6SE, A6SF and A6SG Series (\*special order products).

We would appreciate your understanding and cooperation with this matter.

- Affected Models: Servo drivers of all MINAS A6SE, A6SF and A6SG Series (\*special order products)

Part number



- Change schedule: Starting from January 2024 production lot onwards.

■ Description of the Change and Reason:

The software version will be updated from Ver1.14 to Ver1.15 for functionality improvement purposes.

No.	Function	Ver1.14	→	Ver1.15
1	Automatic start of block operation when servo is turned on	Not supported		<Pr 6.98 28bit "Start of block operation when servo is turned on"> <Pr 6.98 29bit "Expansion of start of block operation when servo is turned on"> Added a function that automatically starts block operation when servo is turned on.
2	Expansion of block operation return-to-origin command	Not supported		<Origin detection method 3 "Z phase"> <Origin detection method 4 "Z phase (approximate)"> Added origin return detection methods "Z phase" and "Z phase (approximate)" of the block operation return-to-origin command

[Detail of Changed Content]

No. 1) Added a function that starts block operation when servo is turned on.

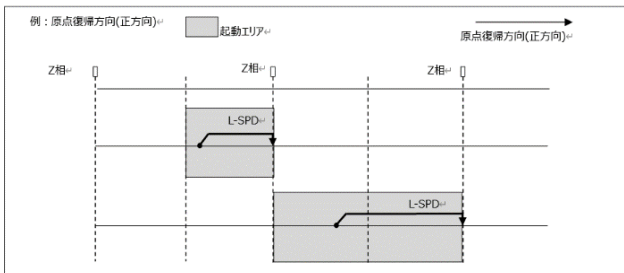
- If Pr6.98 bit28 (Start of block operation when servo is turned on) = 1 (Valid), block operation will be performed automatically when the servo is on. Only the return-to-origin command can be used.
- If Pr6.98 bit28 (Start of block operation when servo is turned on) = 1 (Valid) and Pr6.98 bit29 (Expansion of start of block operation when servo is turned on) = 1 (Valid), block operation will be performed automatically when the servo is on. All block operation commands are available.

Category	No.	Parameter name	Setting range	Function
6	98	Function expansion setting 4	-2147483648 to 2147483647	Sets various function in bit units: bit 0 to 21: For manufacture use. Please set fixed to 0 bit22: Effective bit switching in multi-turn data. 0:Invalid (-256~255 Turn) 1:Valid (-32768~32767 Turn) bit 23 to 27: For manufacture use. Please set fixed to 0 bit 28: Start of block operation when servo is turned on 0:Invalid 1:Valid bit 29: Extension of start of block operatio when servo is turned on 0:Invalid 1:Valid bit 30 to 31: For manufacture use. Please set fixed to 0 *bit 0 is the least significant bit.

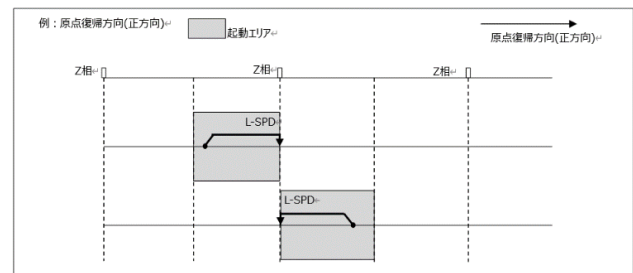
No. 2) Expanded the block operation return-to-origin command.

- Added "Z phase" to detection method 3 and "Z phase (approximate)" to detection method 4 of the block operation return-to-origin command.

• Detection method 3: Z phase



• Detection method 4: Z phase (approximate)



Refer to the following manuals for further information.

- SX-DSV03031: MINAS A6 Series Technical Reference - Functional Specification -
- SX-DSV03042: MINAS A6 Series Technical Reference - Modbus communication and Block operation specification -
- SX-DSV03283: MINAS A6 Series Technical Reference - Functional Specification -  
(Frame size V, DC24 / 48 V \* Special Order Products (For specific customers))

Technical data download page:

[https://www3.panasonic.biz/ac/e/dl/manual/index.jsp?series\\_cd=3514](https://www3.panasonic.biz/ac/e/dl/manual/index.jsp?series_cd=3514)

- Setup support software (PANATERM) for Ver1.15 will be available from Ver.6.0.10.0 onward.
- Previously offered functions can be used by setting up the previous parameter file for the driver.

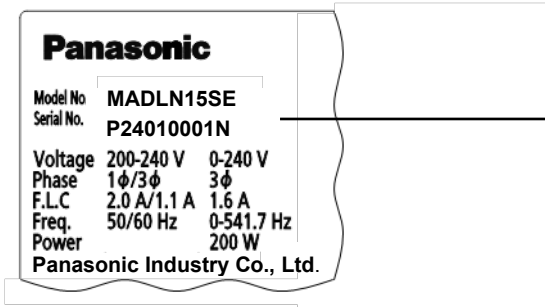
■ Method of checking software version:

• By software:

The software version can be checked by using the setup support software (PANATERM), or in front panel monitor mode.

• By manufacturing code (serial number)

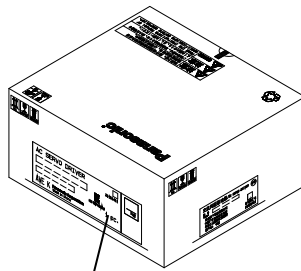
The manufacturing code (serial number) shown on the name plate located on the side of the product conforms to the following rule.



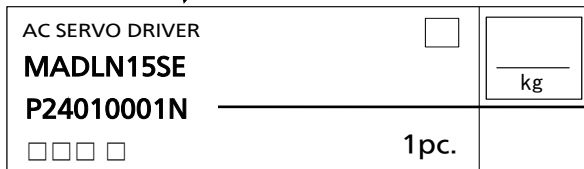
Manufacturing code (Serial number)

Ex. **P24010001N**

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Number is not included on this label.



Manufacturing code (Serial number)

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