

Mitsubishi **General-Purpose** Programmable Controller A0J2 Renewal Tool

New Interface module

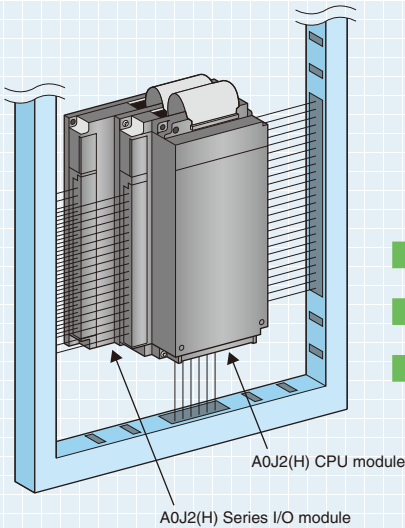


Replace A0J2(H) System with Q Series using existing wiring.

The A0J2 renewal tool is a tool used to replace an existing A0J2(H) system with the Q Series. This tool is configured of an interface module onto which the existing I/O module's wiring terminal block can be mounted, and the Q programmable controller mounting member and connection cable.

The interface module is equipped with a function to convert from AC input to DC input, and a function to convert from a DC output to a relay output or Triac output. The FCN connector type DC I/O module can be used for replacements.

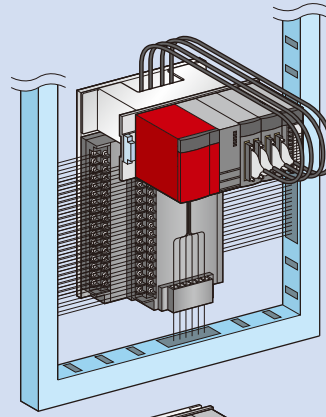
Before replacement



Note

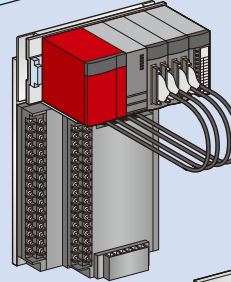
The "A0J2 interface terminal" was scheduled to be available from the "Mitsubishi Electric 'MELSEC-A/QnA (Large) Renewal Catalog' L (NA) 08075", but will now be available as the "A0J2 Renewal Tool" from Mitsubishi Electric System & Service Co., Ltd.

After replacement



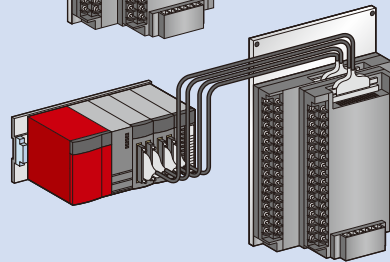
<Stacked type>

If there is space open to the back of the installation place, the Q Series programmable controller can be stacked onto the existing panel's installation face.



<Flat type>

If there is space open above the installation place, the Q Series programmable controller can be installed flatly above the existing panel installation face.



<Standalone type>

The Q series programmable controller can be installed somewhere other than the existing panel installation face.

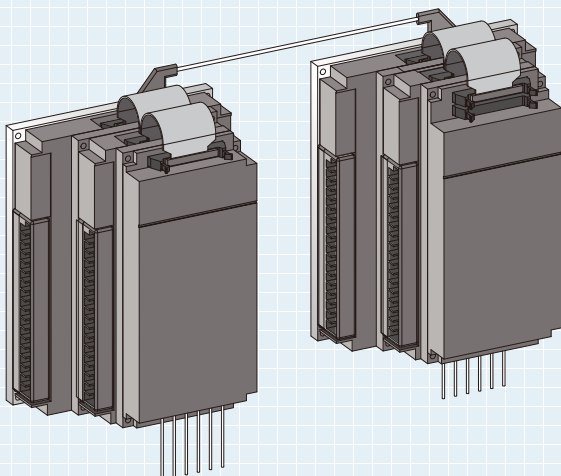
Example Image of replacing A0J2(H) series with "QCPU module and Q Series I/O module".

Features

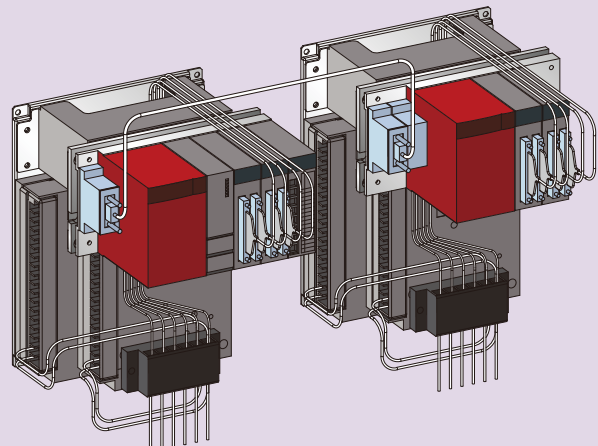
- Wiring work and confirmation time can be reduced by using the existing wiring for the A0J2(H) Series I/O module.
- By using the interface module's input/output signal conversion function, modules with different input/output specifications can be replaced with the DC I/O module.
- Three types, a stacked type, flat type or standalone type can be selected according to the installation environment.
- The renewal tool can be mounted with the existing mounting holes. (The stacked type and flat type do not require additional machining on the panel.)
- In addition to the Q Series, this tool can be used to replace with the AnS (compact) Series or CC-Link FCN connector type DC I/O module. * The AnS (compact) series is compatible only with the [Standalone type].

Example of replacement (Stacked type)

2-stage stack (with CPU) and
2-stage stack (with power extension supply module)



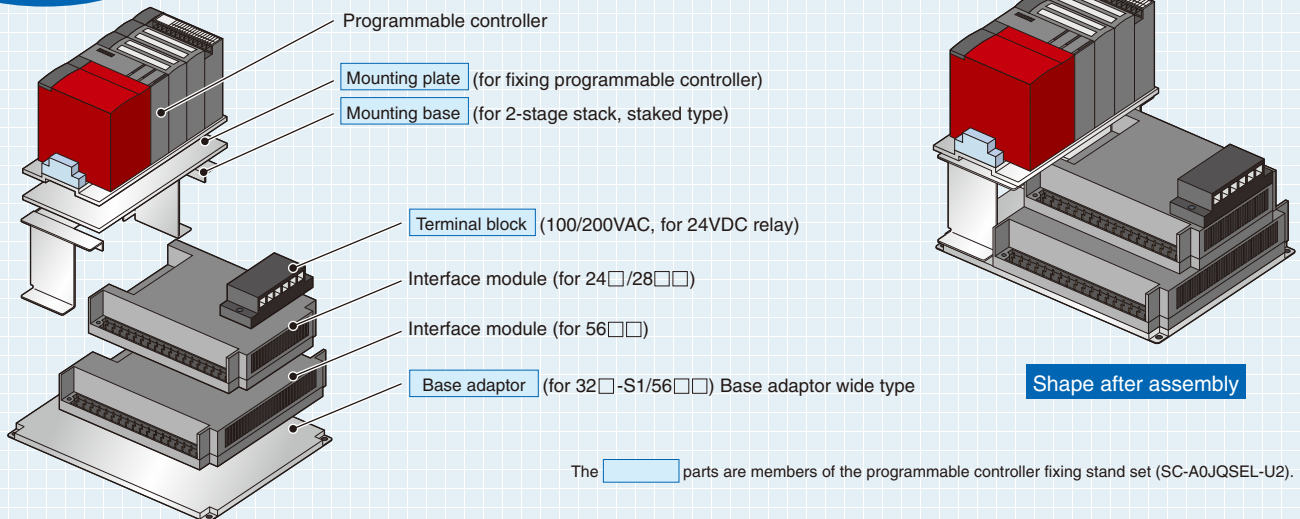
Using 2-stage stack (Q33B) + 2-stage stack (Q63B)



Structure

This tool is configured of the following members.

Example 2-stage stack interface module, programmable controller stacked type



Basic Configuration

Before replacement

A0J2(H) Series programmable controller
● CPU
● I/O module



After replacement

Q Series programmable controller *1
● Main base (Q33B)
● Power supply module *2
● CPU
● I/O module



A0J2 renewal tool *3
● Interface module
● Programmable controller fixing stand or base adaptor
● Programmable controller connection cable

*1: Purchase the Q Series programmable controller from Mitsubishi Electric Corp.

*2: Most interface modules require a 24VDC power supply. The 24VDC service power can be used by selecting the Q62P. Check the current capacity, and prepare the required power. If the current capacity is exceeded, prepare a separate external power supply.

*3: The selected model will differ according to the model in use and the installation environment, etc. Refer to the following "List of Models Compatible with Interface Module", and "Combination Table".

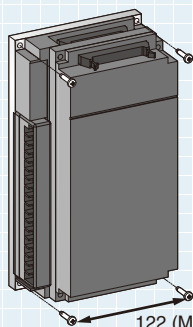
List of Models Compatible with Interface Module

Part name	Discontinued model		Replacement model
	A0J2 Series *9	NET MINI compact type *9	
Input module	A0J2-E32A	AJ35PTF-32A	SC-A0JQIF32A-S1 *4 *5
	A0J2-E32D	AJ35PTF-32D	SC-A0JQIF32D-S1 *4 *5
Output module	A0J2-E24R	AJ35PTF-24R	SC-A0JQIF24R
	A0J2-E24S	AJ35PTF-24S	SC-A0JQIF24S *6 *7 *8
	A0J2-E24T	AJ35PTF-24T	SC-A0JQIF24T
I/O module	A0J2-E28AR	AJ35PTF-28AR	SC-A0JQIF28AR *5
	A0J2-E28AS	AJ35PTF-28AS	SC-A0JQIF28AS *6 *7 *8
	A0J2-E28DR	AJ35PTF-28DR	SC-A0JQIF28DR
	A0J2-E28DS	AJ35PTF-28DS	SC-A0JQIF28DS *7 *8
	A0J2-E28DT	AJ35PTF-28DT	SC-A0JQIF28DT
	A0J2-E56AR	AJ35PTF-56AR	SC-A0JQIF56AR
	A0J2-E56AS	AJ35PTF-56AS	SC-A0JQIF56AS *6 *7 *8
	A0J2-E56DR	AJ35PTF-56DR	SC-A0JQIF56DR
	A0J2-E56DS	AJ35PTF-56DS	SC-A0JQIF56DS *6 *7 *8
	A0J2-E56DT	AJ35PTF-56DT	SC-A0JQIF56DT

*4: The installation dimensions of the SC-A0JQIF32A-S1 and SC-A0JQIF32D-S1 differ from the existing model.

Existing model

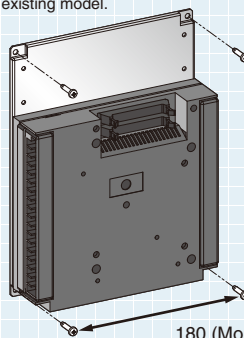
A0J2-E32A
A0J2-E32D
AJ35PTF-32A
AJ35PTF-32D



122 (Mounting pitch)

Interface module

SC-A0JQIF32A-S1
SC-A0JQIF32D-S1



180 (Mounting pitch)

*5: The number of points simultaneously ON with the input module will differ according to the ambient temperature conditions.

*6: The output module's maximum output load current and number of points simultaneously ON will differ according to the ambient temperature conditions.

*7: The output module's response time is 1ms longer than the existing module.

*8: The output module does not have a built-in fuse like existing modules. The CPU special relay's fuse blown signal cannot be used. If using the fuse blown signal, this must be changed.

Attach the external fuse enclosed with the interface module to each common to prevent the external device and module from burning if a load short-circuit occurs.

*9: The Mitsubishi Electric System & Service interface module can be used to replace only the modules listed above.

Refer to the Mitsubishi Electric System & Service website (URL - <http://www.melsoc.co.jp/business/>) Guide for Replacing MELSEC-A0J2(H) Series with A0J2 Renewal Tool (X903070804) for each module's specifications.

Combination Table

Stacked-type *1

Discontinued model		Replacement module					
A0J2(H) Series I/O module A0J2-E□□□ / NET MINI compact type AJ35PTF-□□		Substitute programmable controller I/O module			A0J2 renewal tool		
1st stage	2nd stage	Q series	AnS Series *2	CC-Link *3	Interface module *4	Programmable controller fixing set	Programmable controller connection cable
24R/24S/24T	-	QY41P	-	AJ65SBTCF1-32T	SC-A0JQIF24R/24S/24T	SC-A0JQSE-U1	SC-A0JQC03M x 1 cables
28AR/28AS /28DR/28DS/28DT	-	QX41Y41P (QH42P) *5	-	AJ65SBTCF1-32D + AJ65SBTCF1-32T	SC-A0JQIF28AR/28AS/28DR/28DS/28DT	SC-A0JQSE-U1	SC-A0JQC03M x 2 cables
32A/32D *6	-	QX41	-	AJ65SBTCF1-32D	SC-A0JQIF32A-S1/32D-S1 *6	SC-A0JQSEL-U1	SC-A0JQC03M x 1 cable
56AR/56AS /56DR/56DS/56DT	-	QX41Y41P (QH42P) *5	-	AJ65SBTCF1-32D + AJ65SBTCF1-32T	SC-A0JQIF56AR/56AS/56DR/56DS/56DT	SC-A0JQSEL-U1	SC-A0JQC03M x 2 cables
56AR/56AS /56DR/56DS/56DT	24R/24S/24T	QX41Y41P (QH42P) *5 + QY41P	-	- *7	SC-A0JQIF56AR/56AS/56DR/56DS/56DT + SC-A0JQIF24R/24S/24T	SC-A0JQSEL-U2	SC-A0JQC03M x 3 cables
56AR/56AS /56DR/56DS/56DT	28AR/28AS /28DR/28DS/28DT	QX41Y41P (QH42P) *5 x2	-	- *7	SC-A0JQIF56AR/56AS/56DR/56DS/56DT + SC-A0JQIF28AR/28AS/28DR/28DS/28DT	SC-A0JQSEL-U2	SC-A0JQC03M x 4 cables
56AR/56AS /56DR/56DS/56DT	32A/32D	QX41Y41P (QH42P) *5 + QX41	-	- *7	SC-A0JQIF56AR/56AS/56DR/56DS/56DT + SC-A0JQIF32A-S1/32D-S1	SC-A0JQSEL-U2	SC-A0JQC03M x 3 cables
56AR/56AS /56DR/56DS/56DT	56AR/56AS /56DR/56DS/56DT	QX41Y41P (QH42P) *5 x2	-	- *7	SC-A0JQIF56AR/56AS/56DR/56DS/56DT + SC-A0JQIF56AR/56AS/56DR/56DS/56DT	SC-A0JQSEL-U2	SC-A0JQC03M x 4 cables

- *1: The "stacked type" requires a depth of 195 mm when one interface module is stacked, and 236 mm or more when two modules are stacked. In addition, a space of 30 mm or more open to the top from the current mounting position is required. When replacing the 24□/28□□ 1-stage type, an open space of 29mm or more is required on the left and right.
- *2: Available only for the standalone type.
- *3: The separate mounting plate (SC-A0JQPT2) is required when replacing with the CC-Link module.
- *4: The SC-A0JQIF24S, SC-A0JQIF28□S and SC-A0JQIF56□S output modules do not have a built-in fuse like existing modules. Attach the external fuse enclosed with the interface module to each common to prevent the external device and module from burning if a load short-circuit occurs.
- *5: I/O address: Regardless of the number of interface module I/O points, the A0J2(H) CPU I/O module's I/O assignment is fixed to 64 points (first half input 32 points, last half output 32 points). Thus, the I/O assignment can be migrated as is by arranging the 64-point I/O module QX41Y41P, or one 32-point input module QX41 and one 32-point output module QY41P. When using the I/O compound module QH42P, the input I/O address for the 32 output points will be the same as the I/O addresses, so the sequence program must be changed.
- *6: The mounting dimensions of the SC-A0JQIF32A-S1 and SC-A0JQIF32D-S1 differ from the existing module. The outline dimensions are the same as the SC-A0JQIF56□□. Check the open space, and newly drill M4 screw holes into the panel.
- *7: When replacing with a 2-stage CC-Link module, always install the CC-Link module for the 2nd stage at a place away from the current panel installation space. (Only two CC-Link modules can be set at the current installation space.)

Flat type *8

Discontinued model		Replacement module					
A0J2(H) Series I/O module A0J2-E□□□ / NET MINI compact type AJ35PTF-□□		Substitute programmable controller I/O module			A0J2 renewal tool		
1st stage	2nd stage	Q series	AnS Series *9	CC-Link *10	Interface module *11	Programmable controller fixing set	Programmable controller connection cable
24R/24S/24T	-	QY41P	-	AJ65SBTCF1-32T	SC-A0JQIF24R/24S/24T	SC-A0JQSE-F	SC-A0JQC03M x 1 cable
28AR/28AS /28DR/28DS/28DT	-	QX41Y41P (QH42P) *12	-	AJ65SBTCF1-32D + AJ65SBTCF1-32T	SC-A0JQIF28AR/28AS/28DR/28DS/28DT	SC-A0JQSE-F	SC-A0JQC03M x 2 cables
32A/32D *13	-	QX41	-	AJ65SBTCF1-32D	SC-A0JQIF32A-S1/32D-S1 *13	SC-A0JQSEL-F	SC-A0JQC03M x 1 cable
56AR/56AS /56DR/56DS/56DT	-	QX41Y41P (QH42P) *12	-	AJ65SBTCF1-32D + AJ65SBTCF1-32T	SC-A0JQIF56AR/56AS/56DR/56DS/56DT	SC-A0JQSEL-F	SC-A0JQC03M x 2 cables
56AR/56AS /56DR/56DS/56DT	24R/24S/24T	QX41Y41P (QH42P) *12 + QY41P	-	- *14	SC-A0JQIF56AR/56AS/56DR/56DS/56DT + SC-A0JQIF24R/24S/24T	SC-A0JQSEL-F	SC-A0JQC03M x 3 cables
56AR/56AS /56DR/56DS/56DT	28AR/28AS /28DR/28DS/28DT	QX41Y41P (QH42P) *12 x2	-	- *14	SC-A0JQIF56AR/56AS/56DR/56DS/56DT + SC-A0JQIF28AR/28AS/28DR/28DS/28DT	SC-A0JQSEL-F	SC-A0JQC03M x 4 cables
56AR/56AS /56DR/56DS/56DT	32A/32D	QX41Y41P (QH42P) *12 + QX41	-	- *14	SC-A0JQIF56AR/56AS/56DR/56DS/56DT + SC-A0JQIF32A-S1/32D-S1	SC-A0JQSEL-F	SC-A0JQC03M x 3 cables
56AR/56AS /56DR/56DS/56DT	56AR/56AS /56DR/56DS/56DT	QX41Y41P (QH42P) *12 x2	-	- *14	SC-A0JQIF56AR/56AS/56DR/56DS/56DT + SC-A0JQIF56AR/56AS/56DR/56DS/56DT	SC-A0JQSEL-F	SC-A0JQC03M x 4 cables

- *8: The "flat type" requires 92 mm or more open space above the current installation position, a depth of 76 mm or more when one interface module is stacked, and 35 mm or more when two modules are stacked.
- *9: Available only for the standalone type.
- *10: The separate mounting plate (SC-A0JQPT2) is required when replacing with the CC-Link module.
- *11: The SC-A0JQIF24S, SC-A0JQIF28□S and SC-A0JQIF56□S output modules do not have a built-in fuse like existing modules. Attach the external fuse enclosed with the interface module to each common to prevent the external device and module from burning if a load short-circuit occurs.
- *12: I/O address: Regardless of the number of interface module I/O points, the A0J2(H) CPU I/O module's I/O assignment is fixed to 64 points (first half input 32 points, last half output 32 points). Thus, the I/O assignment can be migrated as is by arranging the 64-point I/O module QX41Y41P, or one 32-point input module QX41 and one 32-point output module QY41P. When using the I/O compound module QH42P, the input I/O address for the 32 output points will be the same as the I/O addresses, so the sequence program must be changed.
- *13: The mounting dimensions of the SC-A0JQIF32A-S1 and SC-A0JQIF32D-S1 differ from the existing module. The outline dimensions are the same as the SC-A0JQIF56□□. Check the open space, and newly drill M4 screw holes into the panel.
- *14: When replacing with a 2-stage CC-Link module, always install the CC-Link module for the 2nd stage at a place away from the current panel installation space. (Only two CC-Link modules can be set at the current installation space.)

Standalone type

Discontinued model		Replacement module					
A0J2(H) Series I/O module A0J2-E□□□ / NET MINI compact type AJ35PTF-□□		Substitute programmable controller I/O module			A0J2 renewal tool		
1st stage	2nd stage	Q series	AnS Series	CC-Link	Interface module *15	Base adaptor	Programmable controller connection cable *16
24R/24S/24T	-	QY41P	A1SY41P	AJ65SBTCF1-32T	SC-A0JQIF24R/24S/24T	SC-A0JQBSS	User-designated x 1 cable
28AR/28AS /28DR/28DS/28DT	-	QX41Y41P (QH42P) *17	A1SH42P	AJ65SBTCF1-32D + AJ65SBTCF1-32T	SC-A0JQIF28AR/28AS /28DR/28DS/28DT	SC-A0JQBSS	User-designated x 2 cables
32A/32D *18	-	QX41	A1SX41	AJ65SBTCF1-32D	SC-A0JQIF32A-S1/32D-S1 *18	SC-A0JQBSS	User-designated x 1 cable
56AR/56AS /56DR/56DS/56DT	-	QX41Y41P (QH42P) *17	A1SH42P	AJ65SBTCF1-32D + AJ65SBTCF1-32T	SC-A0JQIF56AR/56AS/56DR/56DS/56DT	SC-A0JQBSS	User-designated x 2 cables
56AR/56AS /56DR/56DS/56DT	24R/24S/24T	QX41Y41P (QH42P) *17 + QY41P	A1SY41P	AJ65SBTCF1-32T x2	SC-A0JQIF56AR/56AS/56DR/56DS/56DT + SC-A0JQIF24R/24S/24T	SC-A0JQBSS	User-designated x 3 cables
56AR/56AS /56DR/56DS/56DT	28AR/28AS /28DR/28DS/28DT	QX41Y41P (QH42P) *17 x2	A1SH42Px2	AJ65SBTCF1-32D x2	SC-A0JQIF56AR/56AS/56DR/56DS/56DT + SC-A0JQIF28AR/28AS /28DR/28DS/28DT	SC-A0JQBSS	User-designated x 4 cables
56AR/56AS /56DR/56DS/56DT	32A/32D	QX41Y41P (QH42P) *17 + QX41	A1SH42P + A1SX41	AJ65SBTCF1-32D x2	SC-A0JQIF56AR/56AS/56DR/56DS/56DT + SC-A0JQIF32A-S1/32D-S1	SC-A0JQBSS	User-designated x 3 cables
56AR/56AS /56DR/56DS/56DT	56AR/56AS /56DR/56DS/56DT	QX41Y41P (QH42P) *17 x2	A1SH42Px2	AJ65SBTCF1-32D x2	SC-A0JQIF56AR/56AS/56DR/56DS/56DT + SC-A0JQIF56AR/56AS/56DR/56DS/56DT	SC-A0JQBSS	User-designated x 4 cables

- *15: The SC-A0JQIF24S, SC-A0JQIF28□S and SC-A0JQIF56□S output modules do not have a built-in fuse like existing modules. Attach the external fuse enclosed with the interface module to each common to prevent the external device and module from burning if a load short-circuit occurs.
- *16: When designating a cable length, select the required cable length from the "Programmable Controller Connection Cables".
- *17: I/O address: Regardless of the number of interface module I/O points, the A0J2(H) CPU I/O module's I/O assignment is fixed to 64 points (first half input 32 points, last half output 32 points). Thus, the I/O assignment can be migrated as is by arranging the 64-point I/O module QX41Y41P, or one 32-point input module QX41 and one 32-point output module QY41P. When using the I/O compound module QH42P, the input I/O address for the 32 output points will be the same as the I/O addresses, so the sequence program must be changed.
- *18: The mounting dimensions of the SC-A0JQIF32A-S1 and SC-A0JQIF32D-S1 differ from the existing module. The outline dimensions are the same as the SC-A0JQIF56□□. Check the open space, and newly drill M4 screw holes into the panel.

Programmable controller fixing stand set (for stacked type, flat type)

No.	Type	Details				
		Base adaptor	Mounting base	Mounting plate	Terminal block	Power supply cable
1	SC-A0JQSES-U1	For 24□/28□□	Stacked type (1-stage stack)	For Q33B	100/200VAC for 24VDC relay	Terminal block ↔ programmable controller power supply module Terminal block ↔ interface module power supply terminal
2	SC-A0JQSEL-U1	For 32□-S1/56□□	Stacked type (1-stage stack)			
3	SC-A0JQSEL-U2	For 32□-S1/56□□	Stacked type (2-stage stack)			
4	SC-A0JQSES-F	For 24□/28□□	Flat type (1-stage stack)			
5	SC-A0JQSEL-F	For 32□-S1/56□□	Flat type (1-stage stack, 2-stage stack common)			

Base adaptor (standalone type)

No.	Type	Mountable interface module	Details	
			Terminal block	Power supply cable
1	SC-A0JQBSS	For 24□/28□□(1-stage stack)	100/200VAC for 24VDC relay	Terminal block ↔ interface module power supply terminal * Cable between terminal block ↔ programmable controller power supply module must be prepared by user.
2	SC-A0JQBLS	For 32□-S1/56□□(1-stage stack, 2-stage stack common)		

Programmable controller connection cable

No.	Type	Notes
1	SC-A0JQC03M	Cable length: 0.35 m (MIL connector - FCN connector)
2	SC-A0JQC10M	Cable length: 1.0 m (MIL connector - FCN connector)
3	SC-A0JQC20M	Cable length: 2.0 m (MIL connector - FCN connector)
4	SC-A0JQC30M	Cable length: 3.0 m (MIL connector - FCN connector)
5	SC-A0JQC50M	Cable length: 5.0 m (MIL connector - FCN connector)

* Other lengths are available upon request.

Mounting plate

No.	Type	Notes
1	SC-A0JQPT1 *1	For Q Series: Q32SB (custom-order)
2	SC-A0JQPT2 *1	CC-Link Remote (AJ65SBTCF1-32D, AJ65SBTCF1-32T): One or two mountable (custom-order)
3	SC-A0JQPT3 *1	For Q Series: Q63B
4	SC-A0JQPT4 Improved part *2	External 24VDC power supply mounting plate (custom-order) Recommended external power supply: TDK Lambda HWS15-24/A and HWS30-24/A
5	SC-A0JQPT5 *3	For Q Series: Q35B (custom-order)

*1: A mounting plate may be required depending on the selected Q Series (base unit) and CC-Link remote. (The Q33B mounting plate is enclosed with the programmable controller fixed stand set as a standard.)

*2: When using the SC-A0JQPT4 and mounting the HWS30-24/A onto the compact interface module (SC-A0JQIF24□, SC-A0JQIF28□□), the power supply is led out from the right side of the module, so 3mm of open space is required.

*3: The SC-A0JQPT5 cannot be mounted on the fixing stand set (SC-A0JQSES-U1, SC-A0JQSES-F). (It can be mounted on the SC-A0JQSEL-U1, SC-A0JQSEL-U2, SC-A0JQSEL-F.)

When replacing the modules, an open space of 28 mm or more from the current mounting position is required on the left and right.

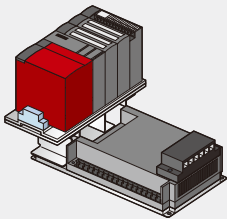
Combination patterns

The following combination patterns can be selected according to the module in use and the installation environment.

The □ models indicate the programmable controller fixing stand set model, and the □ models indicate the base adaptor (for standalone type) model.

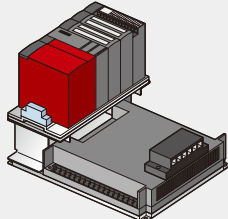
Stacked type

SC-A0JQSES-U1



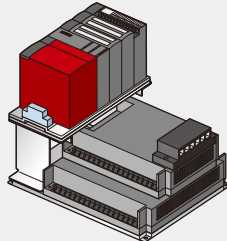
For 24□/28□□

SC-A0JQSEL-U1

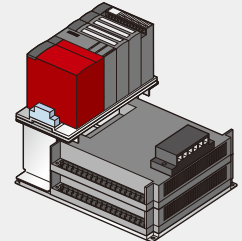


For 32□-S1/56□□

SC-A0JQSEL-U2



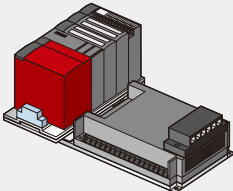
For 24□/28□□+56□□



For 32□-S1/56□□+56□□

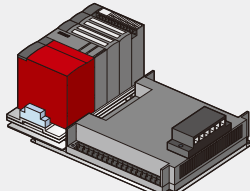
Flat type

SC-A0JQSES-F

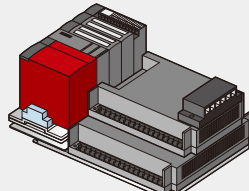


For 24□/28□□

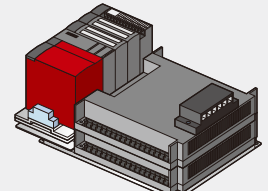
SC-A0JQSEL-F



For 32□-S1/56□□



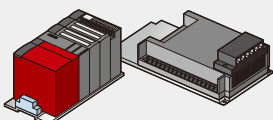
For 24□/28□□+56□□



For 32□-S1/56□□+56□□

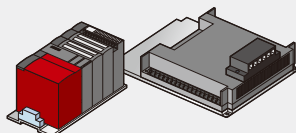
Standalone

SC-A0JQBSS

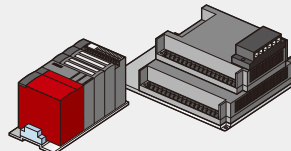


For 24□/28□□

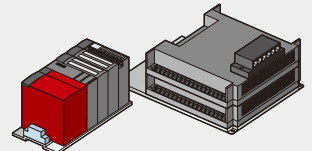
SC-A0JQBLS



For 32□-S1/56□□

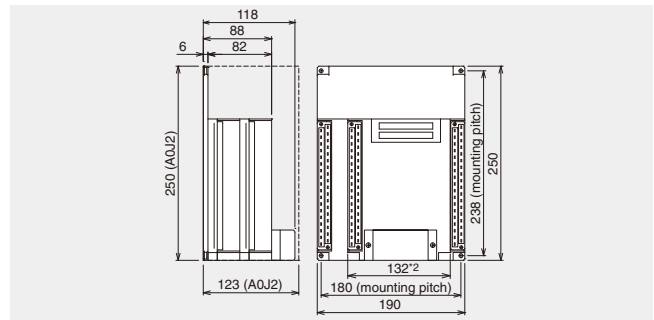
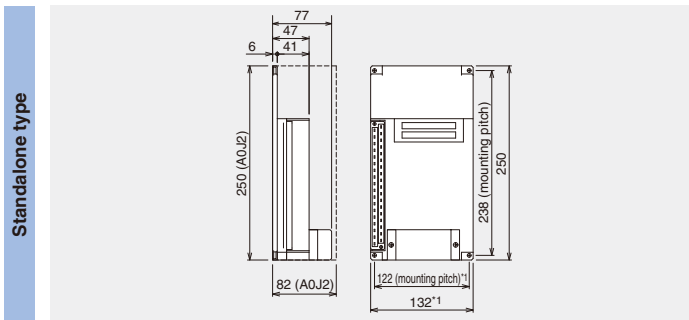
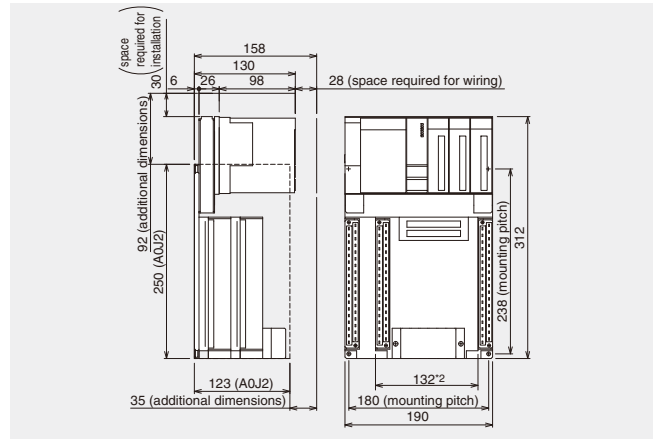
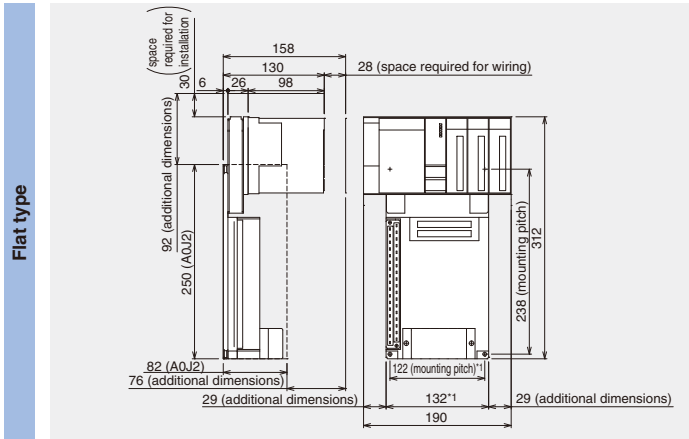
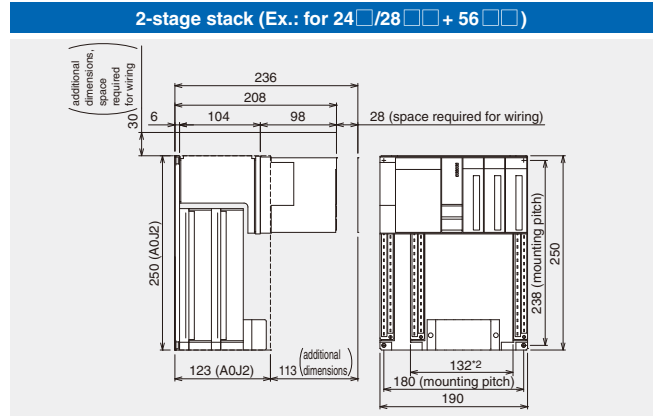
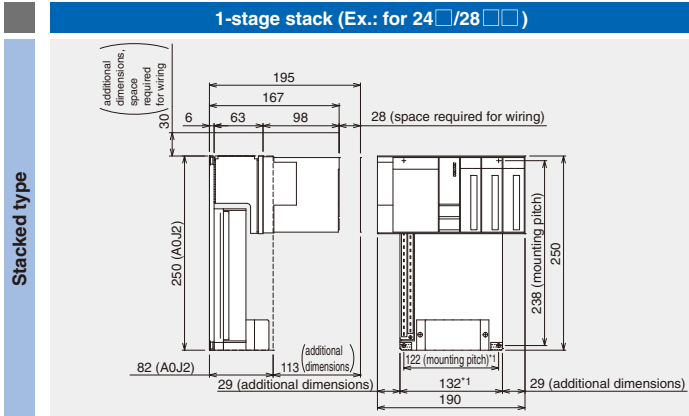


For 24□/28□□+56□□



For 32□-S1/56□□+56□□

Outline dimensions



*1: When using the SC-A0JQIF32□-S1/56□□, the base adaptor, mounting base and interface module width will be 190 mm, and the mounting pitch will be 180 mm.

*2: When using the SC-A0JQIF32□-S1/56□□+56□□, the upper stage's interface module width will be 190 mm.

*3: For details on the other outline dimensions, refer to the Mitsubishi Electric System & Service website (URL - <http://www.melco.co.jp/business/>) Guide for Replacing MELSEC-A0J2(H) Series with A0J2 Renewal Tool (X903070804).

Precautions for Replacement

- When replacing the A0J2HCPU with the QCPU, refer to the "Guide for Replacing MELSEC-A0J2H Series with Q Series" (L(NA)08056) issued by Mitsubishi Electric, or the "Guide for Replacing MELSEC-A0J2(H) Series with A0J2 Renewal Tool (X903070804)" issued by Mitsubishi Electric System & Service. It may be necessary to change the program or set the parameters related to the I/O assignments, etc.
- Always refer to the manuals enclosed with each Q Series module and confirm the functions, specifications and usage methods.
Refer to the Comparison of Performance and Specifications in Chapter 5, Sections 5.2 and 5.3 of the "Guide for Replacing MELSEC-A0J2(H) Series with A0J2 Renewal Tool (X903070804)" available from the Mitsubishi Electric System & Service website (URL - <http://www.melco.co.jp/business/>) for details on the performance and specification differences of the existing module and renewal tool.
- After replacing modules, always confirm the operation of the entire system before starting actual operations.

Mitsubishi Electric System & Service provides total support, ranging from system review, program conversion, local work and system startup, for our customers replacing the A0J2(H) system or A/QnA (large) series, etc., with the Q Series. Please contact us for more information.

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<Sales office> FA PRODUCT DIVISION mail: oss-ip@melco.jp

Contact your reliable and high-quality service dealer for products and consultations.