

Product Discontinuation Notices

Variable Speed Drives

Issue Date
March 20, 2023

No. E-230320

Discontinuation Notice of The basic drive J1000 Series.

Product Discontinuation

The basic drive

Model JZA[]



Recommended Replacement

Compact Drive

Model Q2V-[]-B[]



[Final order entry date]

The end of February, 2024

[Caution on recommended replacement]

Q2V Series: J1000 functions are fully supported by Q2V series, but mechanical sizes, and additional functionality/parameter may be different.

[Difference from discontinued product]

Recommended replacement Model	Body Color	Dimensions	Wire connection	Mounting Dimensions	Characteristics	Operation ratings	Operation methods
Q2V-[]	--	*	--	*	**	**	**

** : Compatible

* : The change is a little/Almost compatible

-- : Not compatible

- : No corresponding specification

[Product Discontinuation and recommended replacement]

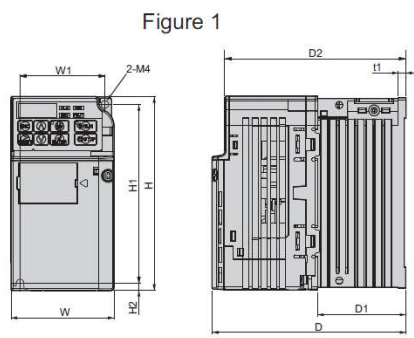
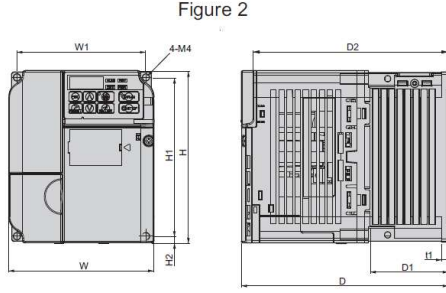
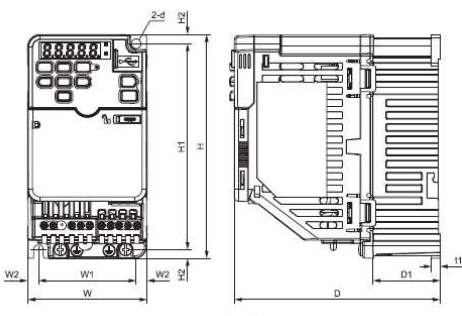
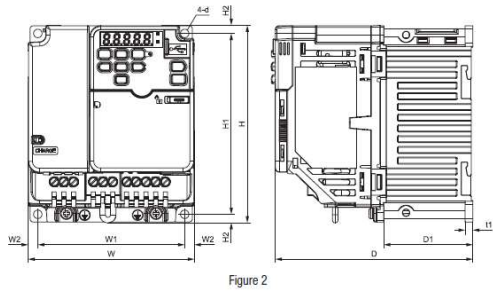
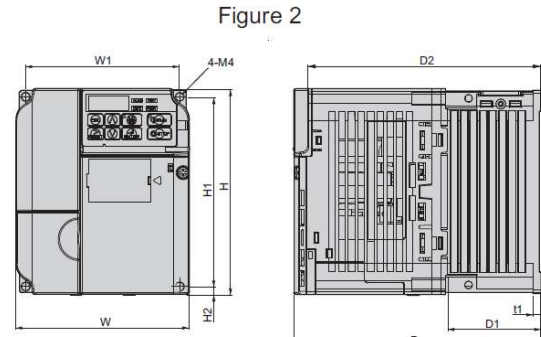
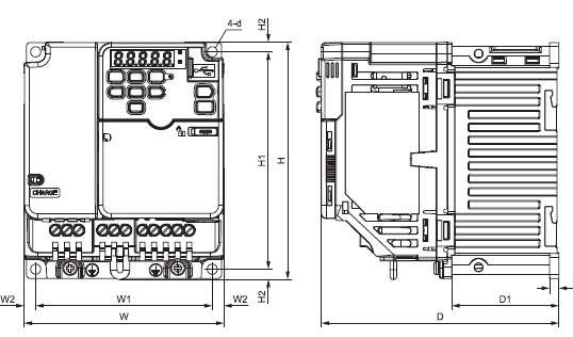
Product discontinuation Model JZA[]	Recommended replacement Model Q2V-[]-B[]
JZAB0P1BAA	Q2V-AB001-BAA
JZAB0P2BAA	Q2V-AB002-BAA
JZAB0P4BAA	Q2V-AB004-BAA
JZAB0P7BAA	Q2V-AB006-BAA
JZAB1P5BAA	Q2V-AB010-BAA
JZA40P2BAA	Q2V-A4001-BAA
JZA40P4BAA	Q2V-A4002-BAA
JZA40P7BAA	Q2V-A4004-BAA
JZA41P5BAA	Q2V-A4005-BAA
JZA42P2BAA	Q2V-A4007-BAA
JZA43P0BAA	Q2V-A4009-BAA
JZA44P0BAA	Q2V-A4012-BAA
JZA20P1BAA	Q2V-A2001-BAA
JZA20P2BAA	Q2V-A2002-BAA
JZA20P4BAA	Q2V-A2004-BAA
JZA20P7BAA	Q2V-A2006-BAA
JZA21P5BAA	Q2V-A2010-BAA
JZA22P2BAA	Q2V-A2012-BAA

Product discontinuation Model JZA []	Recommended replacement Model Q2V-[]-B []
JZA24P0BAA	Q2V-A2021-BAA

[Body color]

Product discontinuation Model JZA []	Recommendable replacement Model Q2V-[]-B []
Cream.	Blue.

[Dimensions & Mounting dimensions]

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<p style="text-align: center;">B0P1/B0P2/B0P4/B0P7/B01P5</p> <div style="text-align: center;"> <p>Figure 1</p>  <p>Figure 2</p>  </div> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th>Drive model JZA □</th> <th>Figure</th> <th colspan="10">Dimensions in mm</th> </tr> <tr> <th></th> <th></th> <th>W1</th> <th>H1</th> <th>W</th> <th>H</th> <th>D</th> <th>t1</th> <th>H2</th> <th>D1</th> <th>D2</th> <th>Weight</th> </tr> </thead> <tbody> <tr> <td>B0P1</td> <td rowspan="4">1</td> <td rowspan="4">56</td> <td rowspan="4">118</td> <td rowspan="4">68</td> <td rowspan="4">128</td> <td>76</td> <td>3</td> <td rowspan="4">5</td> <td>6.5</td> <td>67.5</td> <td>0.6</td> </tr> <tr> <td>B0P2</td> <td>118</td> <td>38.5</td> <td>109.5</td> <td>1.0</td> </tr> <tr> <td>B0P4</td> <td>137.5</td> <td>58</td> <td>129</td> <td>1.7</td> </tr> <tr> <td>B0P7</td> <td>154</td> <td>145.5</td> <td>1.8</td> </tr> <tr> <td>B1P5</td> <td>2</td> <td>96</td> <td>108</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Drive model JZA □	Figure	Dimensions in mm												W1	H1	W	H	D	t1	H2	D1	D2	Weight	B0P1	1	56	118	68	128	76	3	5	6.5	67.5	0.6	B0P2	118	38.5	109.5	1.0	B0P4	137.5	58	129	1.7	B0P7	154	145.5	1.8	B1P5	2	96	108									<p style="text-align: center;">AB001/AB002/ AB004/AB006/AB010</p> <div style="text-align: center;"> <p>Figure 1</p>  <p>Figure 2</p>  </div> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th>Drive model</th> <th>Fig.</th> <th colspan="10">Dimensions (mm)</th> </tr> <tr> <th>Q2V-A□</th> <th></th> <th>W</th> <th>W1</th> <th>W2</th> <th>H</th> <th>H1</th> <th>H2</th> <th>D</th> <th>D1</th> <th>t1</th> <th>d</th> </tr> </thead> <tbody> <tr> <td>B001-B</td> <td rowspan="4">1</td> <td rowspan="4">68</td> <td rowspan="4">56</td> <td rowspan="4">6</td> <td rowspan="4">128</td> <td rowspan="4">118</td> <td rowspan="4">5</td> <td>76</td> <td>6.5</td> <td>3</td> <td>M5</td> </tr> <tr> <td>B002-B</td> <td>118</td> <td>38.5</td> <td>5</td> </tr> <tr> <td>B004-B</td> <td>137.5</td> <td>56.5</td> <td></td> </tr> <tr> <td>B006-B</td> <td>154</td> <td></td> <td></td> </tr> <tr> <td>B010-B</td> <td>2</td> <td>108</td> <td>96</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Drive model	Fig.	Dimensions (mm)										Q2V-A□		W	W1	W2	H	H1	H2	D	D1	t1	d	B001-B	1	68	56	6	128	118	5	76	6.5	3	M5	B002-B	118	38.5	5	B004-B	137.5	56.5		B006-B	154			B010-B	2	108	96														
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**Product discontinuation
Model JZA[]**

20P1/20P2/20P4/20P7/21P5/22P2/24P0

Figure 1

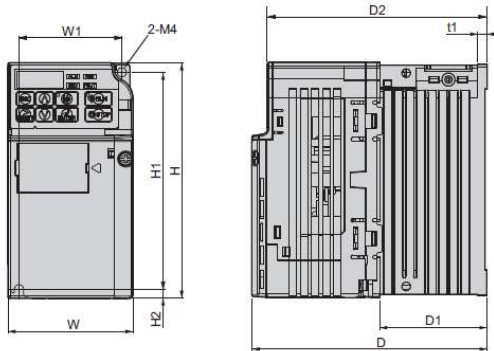
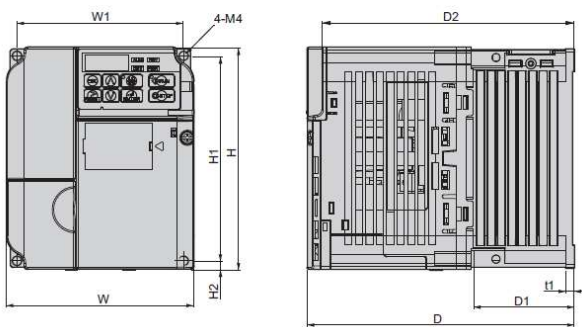


Figure 2



Drive model JZA □	Figure	Dimensions in mm									
		W1	H1	W	H	D	t1	H2	D1	D2	Weight
20P1	1	56	118	68	128	76	3	5	6.5	67.5	0.6
20P2						128			0.6		
20P4						108			38.5	99.5	0.9
20P7						129			119.5	1.1	
21P5	2	96	108	129	137.5	5	5	58	120.5	1.7	
22P2								129	1.7		
24P0								143	65	134.5	2.4

**Recommendable replacement
Model Q2V-[]-B[]**

A2001/A2002/A2004/A2006/A2010/A1012/A2021

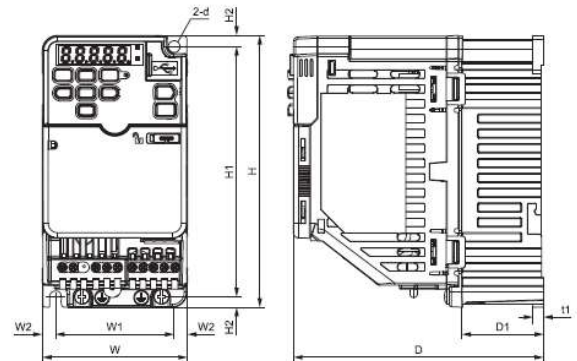


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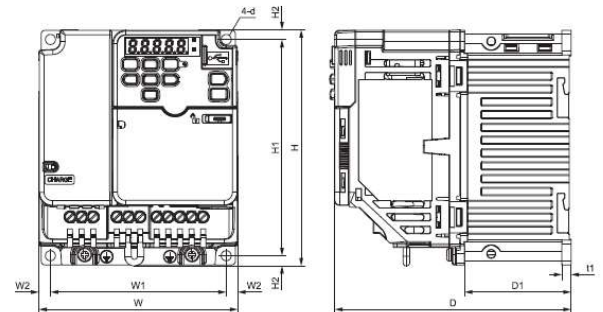
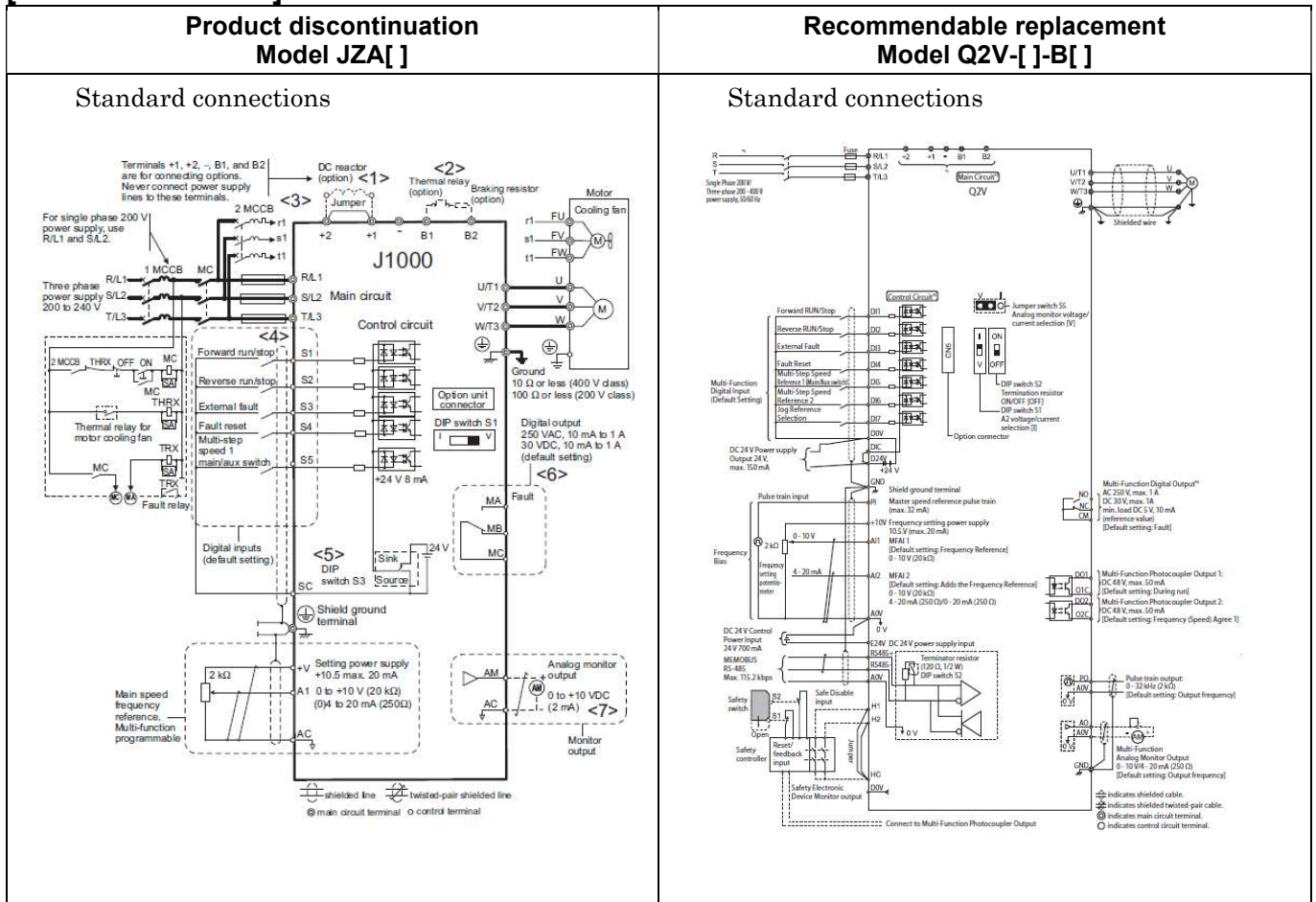


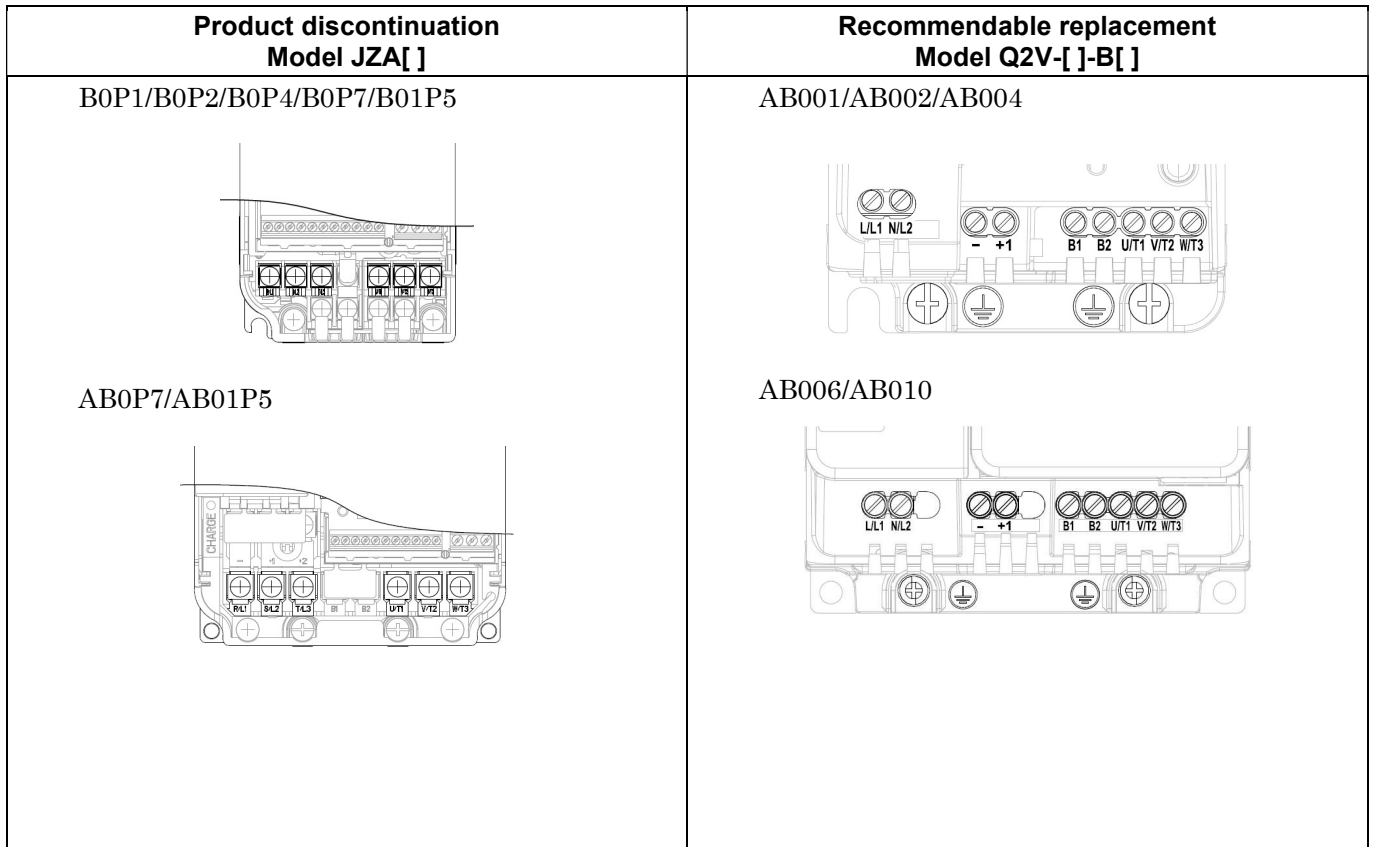
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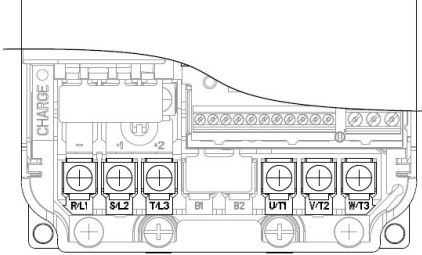
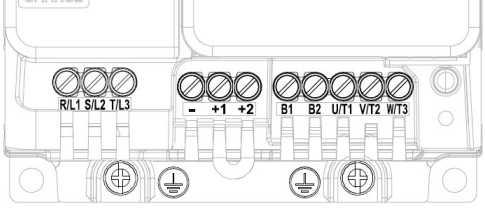
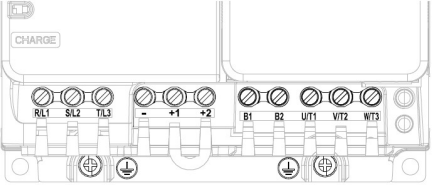
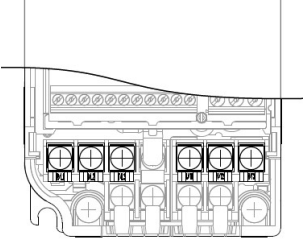
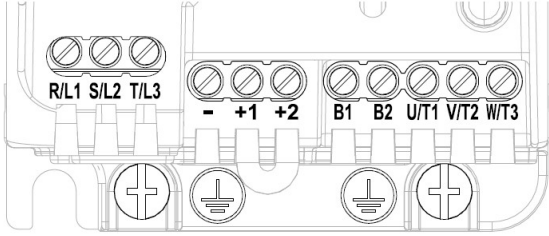
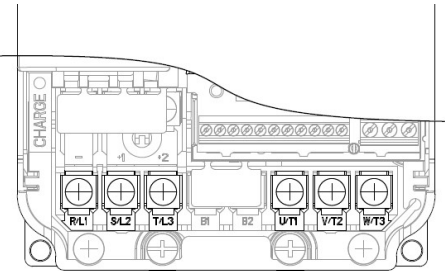
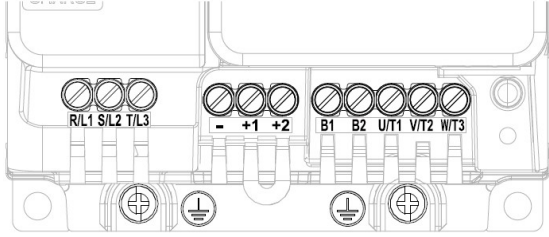
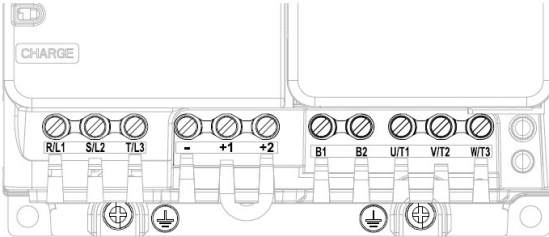
Drive model Q2V-□□	Fig.	Dimensions (mm)										
		W	W1	W2	H	H1	H2	D	D1	t1	d	
2001-B	1	68	56					76	6.5	3		
2002-B								128	58.5	5		
2004-B								108	38.5			
2006-B								128	58.5			
2010-B	2	108	96					129	56.5			
2012-B								137.5	1.7			
2021-B								143	65			
								140	128			

[Wire connection]



Difference of Terminal Block
Main Circuit Terminal Block



<p align="center">Product discontinuation Model JZA[]</p>	<p align="center">Recommendable replacement Model Q2V-[]-B[]</p>
<p>40P2/40P4/40P7/41P5/42P2/43P0/44P0</p> 	<p>A4001/A4002/A4004/A4005/A4007/A4009/</p>  <p>A4012</p> 
<p>20P1/20P2/20P4/20P7</p> 	<p>A2001/A2002/A2004/A2006</p>  <p>A2010/A1012</p>
<p>21P5/22P2/24P0</p> 	 <p>A2021</p> 

Control Circuit Terminal Block

Product discontinuation Model JZA[]			Recommendable replacement Model Q2V-[]-B[]		
Type	No.	Signal name	Type	No.	Signal name
Digital input signals	S1	Multi-function input selection 1	Digital input signals	DI1	Multi-Function Digital Input 1 (ON: Forward run, OFF: Stop)
	S2	Multi-function input selection 2		DI2	Multi-Function Digital Input 2 (ON: Reverse run, OFF: Stop)
	S3	Multi-function input selection 3		DI3	Multi-Function Digital Input 3 (External fault (N.O.))
	S4	Multi-function input selection 4		DI4	Multi-Function Digital Input 4 (Fault reset)
	S5	Multi-function input selection 5		DI5	Multi-Function Digital Input 5 (Multi-step speed reference 1)
	SC	Multi-function input selection Common		DI6	Multi-Function Digital Input 6 (Multi-step speed reference 2)
	---			DI7	Multi-Function Digital Input 7 (Jog reference selection)
	---			D0V*1	MFDI power supply 0 V
	---			DIC	MFDI common
---		D24V	MFDI power supply +24 VDC		
---	---		Safe Disable input	H1	Safe Disable input 1
	---			H2	Safe Disable input 2
	---			HC*2	Safe Disable function common
Analog input signal	FS	Power Supply for Frequency Setting	Master frequency reference	PI	Master speed reference pulse train
	FR1	Main Speed Freq Ref		+10V	Frequency setting power supply
	FC	Frequency reference common		AI1	Multi-Function Analog Input 1 (Frequency reference)
	---			AI2	Multi-Function Analog Input 2 (Frequency reference bias)
	---			A0V	Frequency reference common
	---			GND	Connecting shielded cable
Digital output signals	MA	NO contact output	Fault relay output	NO	Multi-Function Digital Output, N.O. output
	MB	NC Output		NC	Multi-Function Digital Output, N.C. output
	MC	Relay Output common		CM	MFDO common
---	---		Multi-function photocoupler output	DO1	Multi-Function Photocoupler Output 1 (During Run)
	---			O1C	
	---			DO2	Multi-Function Photocoupler Output 2 (Speed agree 1) *3
	---			O2C	
Analog output signals	AM	Analog monitor output	Monitor output	PO	Pulse train output (Output frequency) *3
	AC	Analog monitor common		AO	Analog monitor output (Output frequency)
	---			A0V	Monitor common

Product discontinuation Model JZA[]			Recommendable replacement Model Q2V-[]-B[]		
Type	No.	Signal name	Type	No.	Signal name
---	---		External power supply input	E24V	External 24 V power supply input
	---			A0V	External 24 V power supply ground
---	---		MEMOBUS/ Modbus*4	RS485 +	Communication input/output (+)
	---			RS485 -	Communication output (-)
	---			A0V	Shield ground

*1. Do not close the circuit between D24V and D0V terminals. Failure to obey will cause damage to the drive.

*2. Do not close the circuit between HC and D0V terminals. Failure to obey will cause damage to the drive.

*3. Connect a flywheel diode as shown in when you drive a reactive load such as a relay coil. Make sure that the diode rating is larger than the circuit voltage.

*4. Select DIP switch S2 to ON to enable the termination resistor in the last drive in a MEMOBUS/Modbus network.

[Characteristics]

Item	Product discontinuation Model JZA[]					Recommendable replacement Model Q2V-[]-B[]				
		B0P1	B0P2	B0P4	B0P7		B001	B002	B004	B006
		20P1	20P2	20P4	20P7		2001	2002	2004	2006
Applicable motor (4-pole) capacity [kW]	HD	0.1	0.2	0.4	0.75	HD	0.1	0.25	0.55	0.75
	ND	0.2	0.4	0.75	1.1	ND	0.18	0.37	0.75	1.1
Rated input voltage	Single-phase 200..240 V 50/60 Hz 3-phase 200..240 V 50/60 Hz					3-phase AC power supply 200-240 V at 50/60 Hz DC power supply 270-340 VDC				
Rated output voltage	Proportional to input voltage: 0..240 V					Proportional to input voltage: 200-240 V				
Rated output current [A]	HD	0.8	1.6	3.0	5.0	HD	0.8	1.6	3.0	5.0
	ND	1.2	1.9	3.5	6.0	ND	1.2	1.9	3.5	6.0

Item	Product discontinuation Model JZA[]					Recommendable replacement Model Q2V-[]-B[]				
		B1P5	-	-	-		B010	-	-	-
		21P5	22P2	24P0	-		2010	2012	2021	-
Applicable motor (4-pole) capacity [kW]	HD	1.5	2.2	4.0	-	HD	1.5	2.2	4.0	-
	ND	2.2	3.0	5.5	-	ND	2.2	3.0	5.5	-
Rated input voltage	Single-phase 200..240 V 50/60 Hz 3-phase 200..240 V 50/60 Hz					3-phase AC power supply 200-240 V at 50/60 Hz DC power supply 270-340 VDC				
Rated output voltage	Proportional to input voltage: 0..240 V					Proportional to input voltage: 200-240 V				
Rated output current [A]	HD	8.0	11.0	17.5	-	HD	8.0	11	17.6	-
	ND	9.6	12.0	19.6	-	ND	9.6	12.2	21	-

Item	Product discontinuation Model JZA[]					Recommendable replacement Model Q2V-[]-B[]				
		40P2	40P4	40P7	41P5		4001	4002	4004	4005
Applicable motor (4-pole) capacity [kW]	HD	0.2	0.4	0.75	1.5	HD	0.37	0.55	1.1	1.5
	ND	0.4	0.75	1.5	2.2	ND	0.37	0.75	1.5	2.2
Rated input voltage	3-phase 380..480 VAC, 50/60 Hz					3-phase AC power supply 380-480 V at 50/60 Hz				
Rated output voltage	0..480V (proportional to input voltage)					Proportional to input voltage: 380-480 V				
Rated output current [A]	HD	1.2	1.8	3.4	4.8	HD	1.2	1.8	3.4	4.8
	ND	1.2	2.1	4.1	5.4	ND	1.2	2.1	4.1	5.4

Item	Product discontinuation Model JZA[]					Recommendable replacement Model Q2V-[]-B[]				
		42P2	43P0	44P0	-		4007	4009	4012	-
Applicable motor (4-pole) capacity [kW]	HD	2.2	3.0	4.0	-	HD	2.2	3.0	4.0	-
	ND	3.0	3.7	5.5	-	ND	3.0	4.0	5.5	-
Rated input voltage	3-phase 380..480 VAC, 50/60 Hz					3-phase AC power supply 380-480 V at 50/60 Hz				
Rated output voltage	0..480V (proportional to input voltage)					Proportional to input voltage: 380-480 V				
Rated output current [A]	HD	5.5	7.2	9.2	-	HD	5.6	7.3	9.2	-
	ND	6.9	8.8	11.1	-	ND	7.1	8.9	11.9	-

[Operation ratings]

Item	Product discontinuation Model JZA[]			Recommendable replacement Model Q2V-[]-B[]		
		AB0P1 to AB1P5 A40P2 to A44P0 20P1 to 24P0			AB001 to AB006 A2001 to A2006	AB010 to AB012 A2010 to A2012 A4001 to A4012
Carrier frequency change range	HD	8/10 kHz	HD	10 kHz	8 kHz	
	ND	2 kHz Swing PWM	ND	2 kHz	2 kHz	
Output frequency range	0.1..400 Hz		V/f, OLV and OLV/PM: 0.01 Hz to 590 Hz AOLV/PM: 0.01 Hz to 270 Hz EZOLV: 0.01 Hz to 120 Hz			
Frequency setting resolution	Digital set value: 0.01 Hz (<100 Hz), 0.1 Hz (>100 Hz)		Digital inputs: 0.01 Hz Analog inputs: 1/2048 of the max. output frequency (11-bit signed)			
Output frequency resolution	0.01 Hz		0.001 Hz			
Acceleration/ Deceleration time	0.01 to 6000 s		0.0 to 6000.0 s			
Ambient temperature	-10°C to +50°C		-10°C to +50°C			
Ambient humidity	95% RH or less (without cond.)		95% RH or less (without condensation)			

[Operation methods]

There are some differences of operator, parameters and options between JZA[] and Q2V-[].
Please refer to "J1000 User's Manual" (SIEP-C71060633-01-OY) and "Q2V Technical Manual" (SIEPCYEUOQ2V01C)

Specifications and prices in this product news are as of the issue date and are subject to change without notice.
Only main changes in specifications are described in this document. Please be sure to read the relevant catalogs, datasheets, product specifications, instructions, and manuals for precautions and necessary information when using products.