

MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Selected official pages for procurement and maintenance review

PRODUCT BRAND

FANUC

PRODUCT MODEL

A06B-6117-H209

Alpha i SV 80/80 two-axis servo amplifier.
Selected specifications and ordering reference only.

OFFICIAL SOURCE

FANUC B-65282EN/06, printed pages 37, 38 and 47

Not a complete installation or safety manual.

AMIKON PRODUCT SUPPORT

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Amikon Limited prepared this independent reference package. Selected manufacturer pages follow with their original content and pagination visible.

2.3.2 αi SV series

Specifications (common)

Item	Specifications
Main circuit control method	Sine-wave PWM control with transistor (IGBT) bridge
Applicable CNC	16i-B, 18i-B, 21i-B, 0i-B/C/D, and 30i/31i/32i



CAUTION

HRV4 cannot be applied to A06B-6114-Hxxx and -6124-Hxxx.

200-V input series - 1-axis amplifier

Name	Axis	Rated output current [Arms]	Nominal current limit [Apeak]
αi SV 4	-	1.5	4
αi SV 20	-	6.5	20
αi SV 20L	-	6.5	20
αi SV 40	-	13	40
αi SV 40L	-	13	40
αi SV 80	-	19	80
αi SV 80L	-	19	80
αi SV 160	-	45	160
αi SV 160L	-	45	160
αi SV 360	-	115	360

200-V input series - 2-axis amplifier

Name	Axis	Rated output current [Arms]	Nominal current limit [Apeak]
αi SV 4/4	L	1.5	4
	M	1.5	4
αi SV 4/20	L	1.5	4
	M	6.5	20
αi SV 20/20	L	6.5	20
	M	6.5	20
αi SV 20/40	L	6.5	20
	M	13	40
αi SV 40/40	L	13	40
	M	13	40
αi SV 40/80	L	13	40
	M	19	80
αi SV 80/80	L	19	80
	M	19	80
αi SV 80/160	L	19	80
	M	39	160
αi SV 160/160	L	39	160
	M	39	160
αi SV 20/20L	L	6.5	20
	M	6.5	20

Name	Axis	Rated output current [Arms]	Nominal current limit [Apeak]
αi SV 20/40L	L	6.5	20
	M	13	40
αi SV 40/40L	L	13	40
	M	13	40
αi SV 40/80L	L	13	40
	M	19	80
αi SV 80/80L	L	19	80
	M	19	80
αi SV 80/160L	L	19	80
	M	39	160

NOTE

The current limit (peak value) is a standard value. It varies by about $\pm 10\%$, depending on the circuit constants.

200-V input series - 3-axis amplifier

Name	Axis	Rated output current [Arms]	Nominal current limit [Apeak]
αi SV 4/4/4	L	1.5	4
	M	1.5	4
	N	1.5	4
αi SV 20/20/20	L	6.5	20
	M	6.5	20
	N	6.5	20
αi SV 20/20/40	L	6.5	20
	M	6.5	20
	N	13	40

400-V input series - 1-axis amplifier

Name	Axis	Rated output current [Arms]	Nominal current limit [Apeak]
αi SV 10HV	-	3.1	10
αi SV 20HV	-	5.6	20
αi SV 40HV	-	9.1	40
αi SV 80HV	-	18.2	80
αi SV 180HV	-	58	180
αi SV 360HV	-	115	360
αi SV 10HVL	-	3.1	10
αi SV 20HVL	-	5.6	20
αi SV 40HVL	-	9.1	40
αi SV 80HVL	-	18.2	80

3.1.1.3 αi SV series

1-axis amplifier

Category	Ordering number	Name	Remarks
Standard	A06B-6117-H101	αi SV 4	HRV2 and HRV3 supported
	A06B-6117-H103	αi SV 20	HRV2 and HRV3 supported
	A06B-6117-H104	αi SV 40	HRV2 and HRV3 supported
	A06B-6117-H105	αi SV 80	HRV2 and HRV3 supported
	A06B-6117-H106	αi SV 160	HRV2 and HRV3 supported
	A06B-6117-H109	αi SV 360	DBM required HRV2, HRV3, and HRV4 supported
	A06B-6117-H153	αi SV 20L	HRV4 supported
	A06B-6117-H154	αi SV 40L	HRV4 supported
	A06B-6117-H155	αi SV 80L	HRV4 supported
	A06B-6117-H156	αi SV 160L	HRV4 supported

2-axis amplifier

Category	Ordering number	Name	Remarks
Standard	A06B-6117-H201	αi SV 4/4	HRV2 and HRV3 supported
	A06B-6117-H203	αi SV 4/20	HRV2 and HRV3 supported
	A06B-6117-H205	αi SV 20/20	HRV2 and HRV3 supported
	A06B-6117-H206	αi SV 20/40	HRV2 and HRV3 supported
	A06B-6117-H207	αi SV 40/40	HRV2 and HRV3 supported
	A06B-6117-H208	αi SV 40/80	HRV2 and HRV3 supported
	A06B-6117-H209	αi SV 80/80	HRV2 and HRV3 supported
	A06B-6117-H210	αi SV 80/160	HRV2 and HRV3 supported
	A06B-6117-H211	αi SV 160/160	HRV2 and HRV3 supported
	A06B-6117-H255	αi SV 20/20L	HRV4 supported
	A06B-6117-H256	αi SV 20/40L	HRV4 supported
	A06B-6117-H257	αi SV 40/40L	HRV4 supported
	A06B-6117-H258	αi SV 40/80L	HRV4 supported
	A06B-6117-H259	αi SV 80/80L	HRV4 supported

3-axis amplifier

Category	Ordering number	Name	Remarks
Standard	A06B-6117-H301	αi SV 4/4/4	HRV2 and HRV3 supported
	A06B-6117-H303	αi SV 20/20/20	HRV2 and HRV3 supported
	A06B-6117-H304	αi SV 20/20/40	HRV2 and HRV3 supported

Dynamic brake module

Category	Ordering number	Name	Remarks
Standard	A06B-6079-H401	DBM	αi SV 360