

Item		Unit	R7D-BP01H	R7D-BP02HH	R7D-BP02H	R7D-BP04H
Power supply capacity		kVA	0.27 (0.3) ^{*1}	0.35	0.42	0.69 (0.77) ^{*1}
Main circuit power supply input (L1, L2)	Rated current	A(rms)	0.7 (1.5) ^{*1}	1.6	1.1	1.8 (3.5) ^{*1}
	Wire size		AWG18			
External Regeneration Resistor connection (+, -)	Wire size		AWG18			
Servomotor connection terminal (U, V, W, ⊕) ^{*2}	Rated current	A(rms)	1.0	1.6	1.6	2.5
	Maximum momentary current	A(rms)	3.3	4.9	4.9	7.8
	Wire size		AWG18			
Frame ground	Wire size		AWG14 min.			
	Screw size	---	M4			
	Torque	N·m	1.2 to 1.4			
No-fuse breaker or fuse capacity ^{*3}		A(rms)	3		2	5 (7) ^{*1}

*1. Values in parentheses () are for using single-phase 200 V.

*2. Connect an OMRON Servomotor Power Cable to the Servomotor connection terminals.

*3. Use a no fuse breaker or a surge withstand fuse. The maximum inrush current is 20 A.

■ Wire Size and Allowable Current (Reference)

The following table shows the allowable current when there are three power supply wires. Use a current below these specified values.

600-V Heat-resistant Vinyl Wire (HIV)

AWG size	Nominal cross-sectional area (mm ²)	Configuration (wires/mm ²)	Conductive resistance (Ω/km)	Allowable current (A) for ambient temperature		
				30°C	40°C	50°C
20	0.5	19/0.18	39.5	6.6	5.6	4.5
---	0.75	30/0.18	26.0	8.8	7.0	5.5
18	0.9	37/0.18	24.4	9.0	7.7	6.0
16	1.25	50/0.18	15.6	12.0	11.0	8.5
14	2.0	7/0.6	9.53	23	20	16