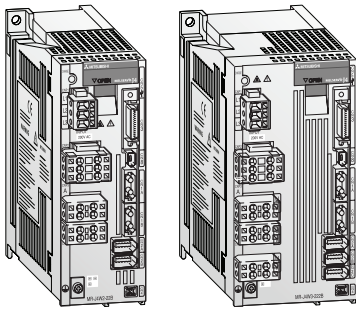


MR-J4W2-B/MR-J4W3-B servo amplifier specifications

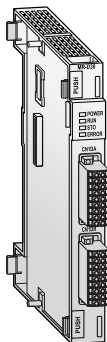


Additional to the standard version of the MR-J4 amplifiers (SSCNETIII/H Motion Network) for one servo motor Mitsubishi Electric now offers also servo amplifiers for two or three servo motors. The amplifiers for two (MR-J4W2-B) and three axes (MR-J4W3-B) are space and wiring saving and more efficient than two or three single amplifiers. Therefore the engineer saves not only

space inside the cabinet and costs due to less wires, but also valuable energy what reduces the pollution of CO₂ at the same time. The range of output power for the amplifier for two axes is from 0.2 to 1 kW, for three axes from 0.2 to 0.4 kW per axis. All other specification items are identical with the standard version of the MR-J4-B for one axis.

Specifications	W2-22B	W2-44B	W2-77B	W2-1010B	W3-222B	W3-444B
Power supply	1-phase or 3-phase 200–240 V AC, 50/60 Hz			3-phase 200–240 V AC, 50/60 Hz	1-phase or 3-phase 200–240 V AC, 50/60 Hz	
Control system	Sinusoidal PWM control/current control system					
Dynamic brake	Built-in	Built-in	Built-in	Built-in	Built-in	
Speed frequency response	2500 Hz	2500 Hz	2500 Hz	2500 Hz	2500 Hz	
Protective functions	Overcurrent shutdown, regeneration overvoltage shutdown, overload shutdown (electronic thermal), servomotor overheat protection, encoder fault protection, regeneration fault protection, undervoltage/sudden power outage protection, overspeed protection, excess error protection.					
Safety function	STO (IEC/EN 61800-5-2); (SS1 function is available by using the safety option card MR-J3-D05)					
Order information	Art. no. 248645	248646	248647	248648	248649	248650

MR-D30 functional safety unit



In combination with the optional MR-D30 functional safety unit, additional safety functions according to EN IEC 61800-5-2 can be realized. By combining the MR-D30 functional safety unit with a MR-J4-A/B-RJ servo amplifier, safety functions “Safe Stop” (SS1), “Safe Brake Control” (SBC), “Safely Limited Speed” (SLS) and “Safe Speed Monitor” (SSM) according to EN IEC 61800-5-2 are available.

The activation is possible by wiring the signals directly to the MR-D30 or in combination with the Motion Controller via a safe SSCNETIII/H communication. Additionally the wiring will be reduced by activating via network.

Specifications	MR-D30	
Control power supply	voltage /frequency	24 V DC
	permissible voltage fluctuation	24 V DC ±10 %
	power supply capacity	800 mA
Supported amplifiers	MR-J4-□A/B-RJ	
Shut-off input (Safety devices)	6 redundant input points, source or sink logic	
Shut-off release input (restart devices)	3 redundant output points, source logic	
Response time	15 ms or less for Safe Torque Off (STO)	
Environment	ambient temperature	Operation: 0–55 °C (no freezing), storage: -20–65 °C (no freezing)
	ambient humidity	Operation: 90 % RH or less (no condensation), storage: 90 % RH or less (no condensation)
	atmosphere	Inside control panel; no corrosive gas, no flammable gas, no oil mist, no dust
	elevation	1000 m or less above sea level
	oscillation	5.9 m/s ² or less at 10 to 57 Hz (directions of X, Y and Z axes)
Order information	Art. no. 275670	