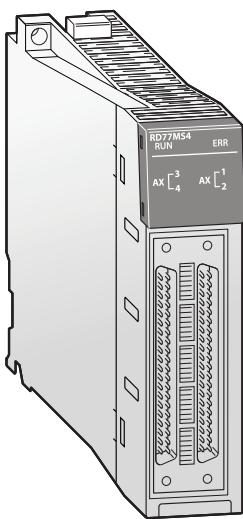


■ Simple Motion modules



The MELSEC iQ-R series lineup includes Simple Motion modules in addition to the regular positioning modules. Various control functions previously only possible with Motion Controllers, such as speed control, torque control, synchronous control and cam control, are now available with the Simple Motion modules.

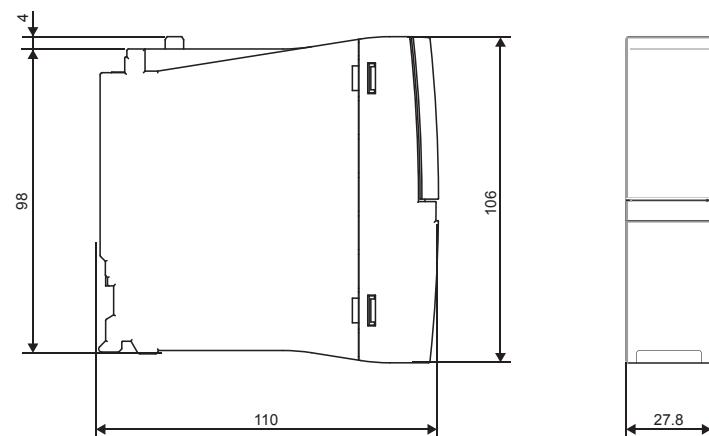
These functions can be realized with simple parameter adjustments and via the PLC program.

Special features:

- Various position control modes
- Home position return control
- Advanced synchronous control
- Mark detection
- Speed-torque control (press-fit control)
- Manual control (JOG, inching, or manual pulse generator operation)
- Connection to CC-Link IE Field reduces wiring for RD77GF

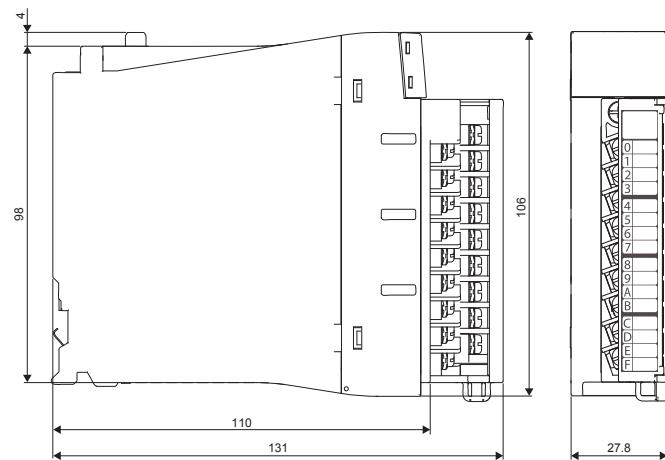
Specifications	RD77GF4	RD77GF8	RD77GF16	RD77GF32	RD77MS2	RD77MS4	RD77MS8	RD77MS16
Number of controllable axes	4	8	16	32	2	4	8	16
Interpolation functions			Linear interpolation for up to 4 axes, circular interpolation for 2 axes, helical interpolation for 3 axes		2 axes linear and circular interpolation		Linear interpolation for up to 4 axes, circular interpolation for 2 axes	
Servo amplifier network	CC-Link IE Field	CC-Link IE Field	CC-Link IE Field	CC-Link IE Field	SSCNETIII/H	SSCNETIII/H	SSCNETIII/H	SSCNETIII/H
Servo amplifier	MR-J4-GF(-RJ)				MR-JE-B/MR-J4(W2/W3)-B over SSCNETIII/H			
Operation cycle	ms	0.5, 1.0, 2.0, 4.0		0.5, 1.0, 2.0, 4.0	0.444, 0.888, 1.777, 3.555			
Positioning	Method	PTP (Point To Point) control, path control (linear and arc), speed control, speed-position switching control, position-speed switching control, speed-torque control, advanced synchronous control						
	Acceleration/deceleration control	Trapezoidal acceleration/deceleration, S-curve acceleration/deceleration						
	Compensation	Backlash compensation, electronic gear, near pass function						
Number of positioning points	600 data/axis (All the data points can be set with the buffer memory.)				600 per axis (can be set with GX Works3 or PLC program)			
External input signals	External devices, like encoder or remote I/O are connected via CC-Link IE Field				1 encoder, A/B phase; 4 digital inputs [DI1–DI4]			
Cam function	Storage area cam data 3 MBytes, max. 1024 (depends on resolution)				256 kBytes, max. 256 (depends on resolution)			
Occupied I/O points	32	32	32	64	32	32	32	32
Connection terminal	RJ45 connector	RJ45 connector	RJ45 connector	RJ45 connector	40-pin connector	40-pin connector	40-pin connector	40-pin connector
Applicable wire size	mm ²	0.088–0.3 (A6CON1/4) 0.088–0.24 (A6CON2)	0.088–0.3 (A6CON1/4) 0.088–0.24 (A6CON2)	0.088–0.3 (A6CON1/4) 0.088–0.24 (A6CON2)	0.088–0.3 (A6CON1/4) 0.088–0.24 (A6CON2)	0.088–0.3 (A6CON1/4) 0.088–0.24 (A6CON2)	0.088–0.3 (A6CON1/4) 0.088–0.24 (A6CON2)	0.088–0.3 (A6CON1/4) 0.088–0.24 (A6CON2)
		0.088–0.3 (A6CON1/4) 0.088–0.24 (A6CON2)	0.088–0.3 (A6CON1/4) 0.088–0.24 (A6CON2)	0.088–0.3 (A6CON1/4) 0.088–0.24 (A6CON2)	0.088–0.3 (A6CON1/4) 0.088–0.24 (A6CON2)	0.088–0.3 (A6CON1/4) 0.088–0.24 (A6CON2)	0.088–0.3 (A6CON1/4) 0.088–0.24 (A6CON2)	0.088–0.3 (A6CON1/4) 0.088–0.24 (A6CON2)
No. of Simple Motion modules in one system	8	8	8	8	8	8	8	8
Internal power consumption (5 V DC)	A	1.1	1.1	1.1	1.0	1.0	1.0	1.0
Weight	kg	0.23	0.23	0.23	0.22	0.23	0.23	0.23
Dimensions (WxHxD)	mm	27.8x106x110	27.8x106x110	27.8x106x110	27.8x106x110	27.8x106x110	27.8x106x110	27.8x106x110
Order information	Art. no.	295077	295078	295079	304200	280229	280230	280231
								280232

■ Safety function module and safety CPU

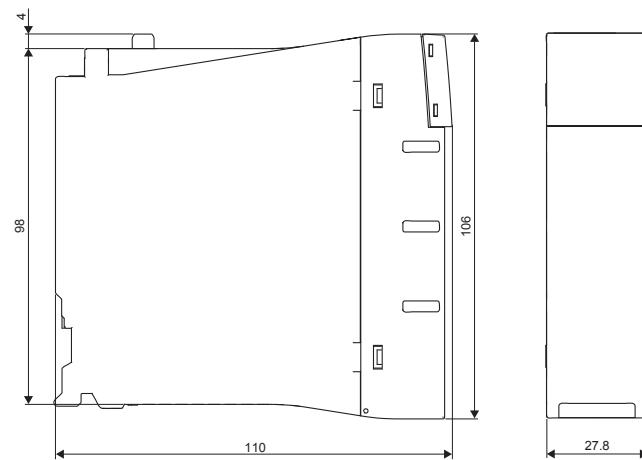


■ I/O modules, blank cover module special function modules

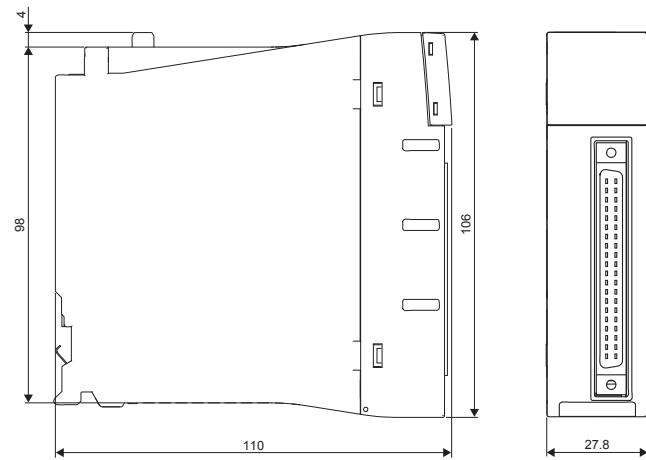
18-point screw terminal block



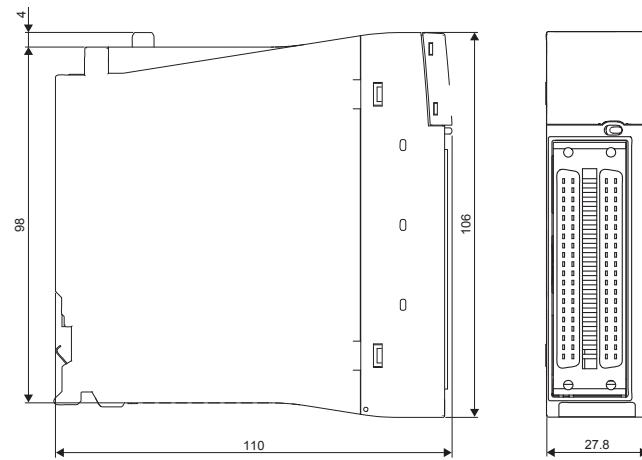
Blank cover module



40-pin connector, 32 points module



40-pin connector, 64 points module



Unit: mm