

SANMOTION R

AC SERVO SYSTEMS

400 VAC Servo Amplifier

Analog 1-axis

EtherCAT® 1-axis

EtherCAT® 4-axis

EtherCAT
Conformance tested

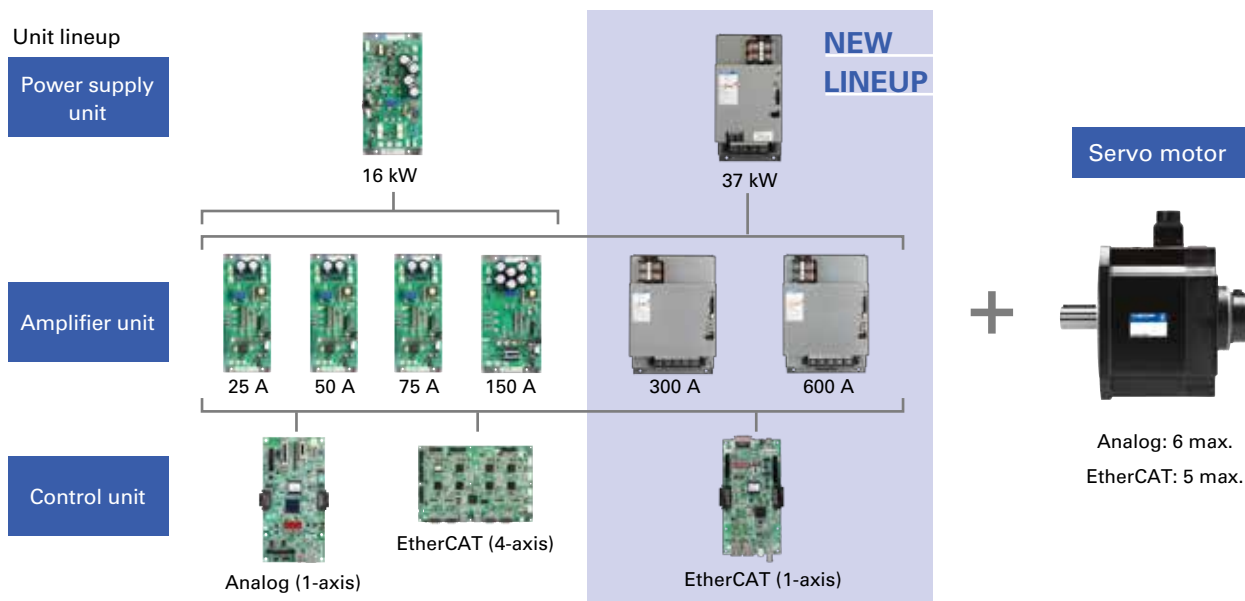
NEW

Lineup enriched with the addition of new capacity variations and an EtherCAT-based single-axis control unit.



Space Saving for Flexible System Configuration

Especially in injection molding machines, where motors are not operated simultaneously, the power supply unit's capacity can be reduced, contributing to downsizing.



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Smooth Motion

Compared with our current model,⁽¹⁾ the new EtherCAT-based single-axis control unit's speed frequency response has been doubled⁽²⁾ and EtherCAT communication cycle has been shortened to half⁽³⁾ to achieve smoother motor motion. This contributes to shortening the cycle time of user's equipment and increasing productivity.

(1) Comparison with our current model RM2C4H4. (2) Speed frequency response 2,200 Hz (1,200 Hz for the current model)

(3) Minimum communication cycle 62.5 μs (125 μs for the current model)

Preventive Maintenance

The EtherCAT-based single-axis control unit features a function to monitor motor holding brake wear and notify users of replacement timing. It also has a power consumption monitoring function for regenerative resistors and a communication quality monitoring function. These contribute to preventive maintenance and remote failure diagnosis of user equipment.

Control unit



EtherCAT 1-axis



EtherCAT 4-axis



Analog 1-axis

Model no.	RM3C1H4	RM2C4H4
No. of controllable axes	1	Up to 4
Interface	EtherCAT	
Functional safety	STO (SafeTorque Off function)	
Dimensions [mm]	90 (W) x 180 (H) x 21 (D)	285 (W) x 190 (H) x 18 (D)

Model no.	RM2C1A0
No. of controllable axes	1
Interface	Analog
Functional safety	None
Dimensions [mm]	90 (W) x 180 (H) x 17 (D)

Power supply unit



16 kW



37 kW

Model no.	RM3PCA160	RM3PCA370	
Input voltage and current	Main circuit power supply	3-phase 380 to 480 VAC (+10%, -15%) 50/60 Hz \pm 3 Hz	
	Control circuit power supply	24 VDC \pm 15%, 4.2 A	24 VDC \pm 15%, 4.6 A
Rated output capacity	16 kW	37 kW	
Input power capacity	27 kVA	64 kVA	
Compatible amplifier unit capacity	25 to 150 A	25 to 600 A	
Frame shape	Open frame	Enclosure	
Dimensions [mm]	184 (W) x 380 (H) x 168 (D)	180 (W) x 380 (H) x 295 (D)	

Amplifier unit



75 A



150 A

Model no.	RM3DCA025	RM3DCA050	RM3DCA075	
Input voltage and current	Main circuit power supply	457 to 747 VDC		
	Control circuit power supply	24 VDC \pm 15%, 1.3 A		
Amplifier capacity	25 A	50 A	75 A	
Compatible motor	0.55 to 2 kW	1 to 3.5 kW	3.5 to 5.5 kW	
Compatible encoder	Battery-less absolute encoder			
Frame shape	Open frame			
Dimensions [mm]	154 (W) x 380 (H) x 166 (D)			



300 A



600 A

Model no.	RM3DCA150	RM3DCB300	RM3DCB600	
Input voltage and current	Main circuit power supply	457 to 747 VDC		
	Control circuit power supply	24VDC \pm 15%, 1.3A	24VDC \pm 15%, 2.2A	24VDC \pm 15%, 2.6A
Amplifier capacity	150 A	300 A	600 A	
Compatible motor	5.5 to 15 kW	20 to 30 kW	37 kW	
Compatible encoder	Battery-less absolute encoder			
Frame shape	Open frame	Enclosure		
Dimensions [mm]	194 (W) x 380 (H) x 168 (D)	250 (W) x 380 (H) x 295 (D)	250 (W) x 380 (H) x 295 (D)	

EtherCAT® is a registered trademark and patented technology, licensed by Beckhoff Automation GmbH, Germany.

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