

SIGMA-5

THE 5-STAR SERVO



The star in...

- ★ Performance
- ★ Space saving
- ★ Quality
- ★ Motor portfolio
- ★ Motion network

The complete servo

There are no compromises when it comes to the quality, reliability and performance of the new Sigma-5, which is designed to provide all that one expects from a servo and more.

The tuning-less algorithm included in Sigma-5 makes the dream of the no-tuning servo a reality, while the intuitive and user-friendly software tool minimizes commissioning time obtaining the best from the servo for your machine

Safety is embedded in the Sigma-5 as standard, making it easy for you to achieve Safety Category 3 (EN 954-1) without additional contactors and disconnecting the motor faster than with traditional solutions. The sigma-5 is also ready to support advanced safety functions like limited safety speed.



Obsession with quality

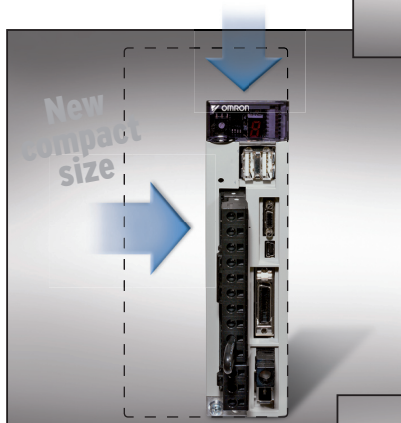
Omron Yaskawa's obsession with quality has resulted in the most dependable products available in the industry today. And we never stop working to improve quality even further. This is fully reflected in the new Sigma-5, which incorporates decades of experience.

Five reasons to choose Sigma-5

1 Unrivalled performance

The unrivalled frequency response of 1.6 kHz combined with the innovative algorithm of Sigma-5 results in quicker positioning, smaller following error, very low ripple at low speed, higher accuracy and a settling time close to zero.

Moreover, the advanced and robust control algorithm features the drive with mechanical vibration cancellation, which enables the drive to automatically cancel the vibration on the mechanics and provides the capability to control a huge inertia mismatch ratio range.



3 Proven quality

The installed base of more than 6 million servos bears testimony to the quality and dependability of Sigma series.



4 Wide choice of motors

A wide choice of best-in-class rotary, linear, and direct-drive motors is available to match all of your requirements in compactness, performance and reliability.



2 Space saving

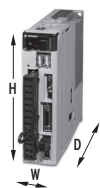
Thanks to its efficient design, the size of the Sigma-5 is reduced dramatically, saving you a huge amount of panel space while making light of your installation work.



5 MECHATROLINK-II Motion Network

You can be confident of choosing a stable, flexible and reliable motion solution: MECHATROLINK is proving its performance and reliability every day with more than 300.000 axes installed worldwide. Sigma-5 with MECHATROLINK-II Motion Network reduces cabling and installation time, improves system reliability and enables remote-servo configuration and diagnosis.

Specifications	Drive Model	H	W	D
1 Phase 200 V AC	50 W SGDV-A5A_A-OY	160	40	140
	100 W SGDV-01A_A-OY			
	200 W SGDV-02A_A-OY			
	400 W SGDV-04A_A-OY	160	40	170
	750 W SGDV-08A_A-OY	160	70	180
	1.5 kW SGDV-15A_A-OY	180	100	180
3 Phase 400 V AC	0.5 kW SGDV-05D_A-OY	160	110	180
	1.0 kW SGDV-10D_A-OY			
	1.5 kW SGDV-15D_A-OY			
	2 kW SGDV-20D_A-OY	250	110	180
	3 kW SGDV-30D_A-OY			
	5 kW SGDV-50D_A-OY	250	135	230



Contact us for more information.

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