

# DR2020 SERVODRIVE

Decentralized IP67 Protection Rate for harsh environment applications



The DR2020 is a drive suitable for applications with electronics distributed on the machine. Its elevated protection grade allows it to operate in harsh environments with exposure to liquids and dust.

Thanks to the IP67 protection grade, the DR2020 does not require an electrical cabinet to be installed, but can be positioned directly on the machinery with a consequent streamlining of wire configurations and space savings in the control cabinets.

This also thanks to the use of a single connector for power and signal. The DR2020 is designed to work with different types of motors and feedback devices: it can control both synchronous and asynchronous motors and is compatible with various feedback systems (standard Resolver, single and multi-turn Heidenhain encoders).

Both the Safe Torque Off and Safe Brake Control safety functions are integrated in the standard equipment of each DR2020 servodrive.

## FEATURES AND BENEFITS

- Possibility to remotely equip sections of the machine reducing connections
- Decreasing unit dimensions and number of components needed
- Use of a single AC / DC power supply for the entire system
- Significant lowering of costs due to reduced wiring
- Possibility to control additional axes (optional) from "base" machines
- Integration with the DM2020 multi-axis system allows for a reduction in the energy consumption of the machine.



## APPLICATIONS

- Rough environment industrial applications
- Industrial machinery with decentralized architecture

# SPECIFICATIONS

The integration with the DM2020 multi-axis system and the configuration with a shared DC bus allow a reduction in the overall energy consumption of the machine.

The employment in coupling with the new FAS H single connector motors, also allows the use of a single cable between the drive and the motor, even with analog transducers (resolver). The DR2020 can be controlled by a "master" controller EtherCAT, CANopen.

The Safe Torque Off (STO) and Safe Brake Control safety functions are integrated in the standard equipment of every DR2020.

## TECHNICAL DATA

<b>Control functions</b>	Torque, speed, position
<b>Protection rating</b>	IP 67
<b>Command protocols</b>	EtherCAT, CANopen (according to CIA 402)
<b>PWM frequency</b>	4-8-16 kHz
<b>Power supply range</b>	282 - 810 Vdc
<b>Environmental operating temperature</b>	From 0°C to 40°C
<b>Auxiliary power supply tension</b>	24 Vdc
<b>Rated current</b>	2 - 12 Arms
<b>Peak current</b>	4 - 22 Arms
<b>Machine safety</b>	STO (Safe Torque Off) SILCL 3 PL e SBC (Safe Brake Control) SILCL 3 PL e (**)
<b>Motor overheating protection</b>	HW and SW
<b>Analog input</b>	Option (*)
<b>Analog output</b>	Option (*)
<b>Digital input</b>	Option (*)
<b>Digital output</b>	Option (*)
<b>Encoder and analog command simulation</b>	Option (*)
<b>Set-up communication interface</b>	EtherCAT, CAN
<b>Certification</b>	CE, UL (**)

\* All options must be defined at the order \*\* Pending approval

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