

**NEW**

## **Decentralized extra-low voltage servo drive**

CMP ELVCD – Extra-Low Voltage Compact Drive

Robust – integrated – compact



## The CMP ELVCD electric motor meets a wide range of requirements for designated areas of application

The innovative CMP ELVCD extra-low voltage servo drives from SEW-EURODRIVE are especially suited for applications with power ranges between the classic servo drives and miniature drives. The DC operating voltage range of 48 V offers the additional advantages of extra-low voltage regarding compact design, simplicity, and electrical safety.

Up to now, the application areas of extra-low voltage drives that are particularly in demand are applications in the automobile and consumer goods industry.

However, compared to classic industrial servo drives, different product requirements regarding robustness, durability, serviceability, and scalability are demanded in this area. This is why, during the conception of the CMP ELVCD,

our focus was not on yet another extra-low voltage drive but on creating a complete industry-standard, decentralized servo drive with all the characteristics of an SEW-EURODRIVE servo gearmotor. Whether decentralized or control cabinet systems – our claim is that drives from SEW-EURODRIVE behave identically from the customer's point of view.

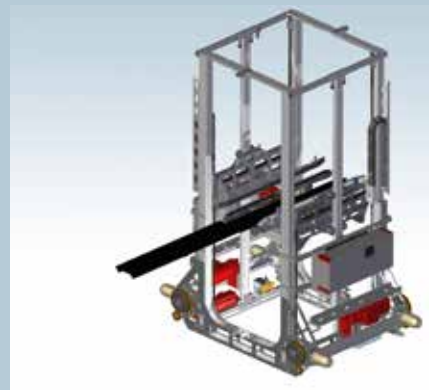


The CMP ELVCD is thus comprehensively integrated into the SEW-EURODRIVE automation system with MOVI-PLC®. It can be used for all automation tasks with dynamic and precise motion sequences up to 500 W.

## Application examples for the CMP ELVCD decentralized extra-low voltage servo drive

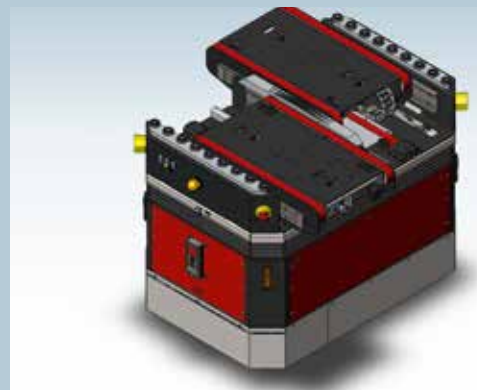
### Multi and single level shuttle systems in the container logistics

The CMP ELVCD is used as drive for telescopes and conveyor belts for the automation of entire load handling devices. The drives are controlled via a moving control cabinet or via a completely decentralized unit. This allows for the realization of compact, flexible logistics applications.



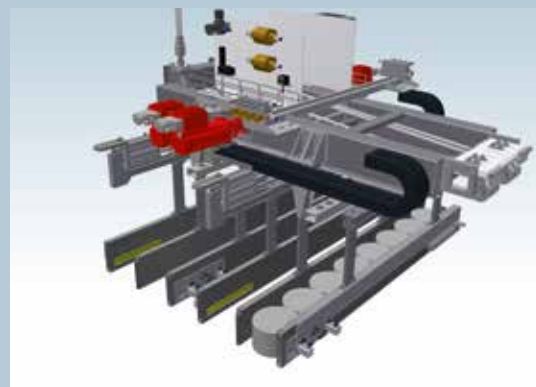
### AGV and logistics vehicles

Depending on the performance data of the vehicles, the drives can be used as travel drives and lifting drives as well as load handling devices. Combined with the MOVIPRO® decentralized drive, positioning and application controller and MOVITRANS® contactless energy transfer, attractive complete solutions can be realized.

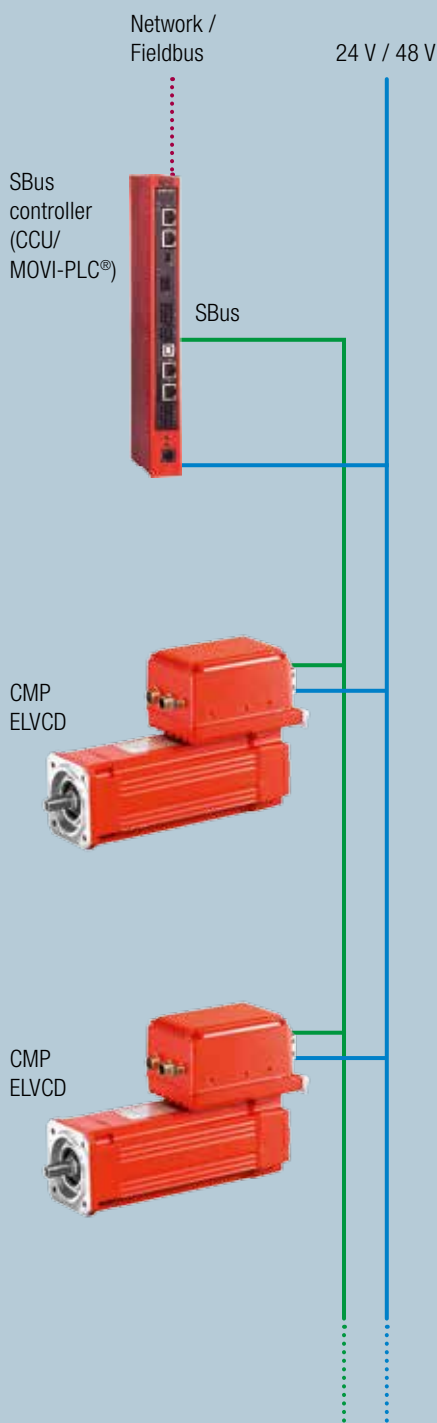


### Gripper and handling units

Combined with our classic servo drives, such as the MOVIAxis® multi-axis servo inverter, the CMP ELVCD is perfectly suited to reduce weight and optimize the cabling, especially for mobile gripper and handling units. It can be controlled directly via a MOVI-PLC® motion and logic controller.



## Installation topology with the CMP ELVCD decentralized extra-low voltage servo drive



- CMP ELVCD is supplied with DC 24 V (control) and DC 48 V (power supply).
- The drive is controlled via SBus with a controller from SEW-EURORDRIVE, which functions as central head station.
- The controller is responsible for the coordination and the higher-level motion control for all connected drives.
- Depending on the power demands and the synchronicity of the drives, several drives can be connected and supplied via one phase winding.
- The used controllers offer conventional interfaces for higher-level automation levels. The automation system can also be operated independently as a module.

### Technical data

		CMP50S	CMP50M
<b>Connection voltages</b>	DC link voltage	DC 48 V nom (max. DC 60 V)	
	Electronics supply	DC 24 V $\pm$ 20%	
<b>Input current</b>	$I_{\text{nominal}}$	15 A	
	$I_{\text{max}}$	35 A for 2 s	
<b>Ambient temperature</b>	$\vartheta_A$	-25 °C to +50 °C (no condensation)	
<b>Storage temperature</b>	$\vartheta_S$	-25 °C to +70 °C (EN 60721-3-3)	
<b>Motor power</b>	at $\vartheta_A = 20$ °C	330 W	500 W
	at $\vartheta_A = 40$ °C	230 W	330 W
<b>Nominal motor speed</b>		3000 rpm	
<b>Nominal motor torque</b>	at $\vartheta_A = 20$ °C	1.05 Nm	1.6 Nm
	at $\vartheta_A = 40$ °C	0.75 Nm	1.05 Nm
<b>Degree of protection</b>		IP65 according to EN 60529	
<b>Dimensions (L x W x H)</b>	MIN	150.5 x 85 x 150	189.5 x 85 x 150
	MAX	217 x 85 x 150	256 x 85 x 150
<b>Weight</b>	without brake	2.9 kg	3.55 kg
	with brake	3.25 kg	3.9 kg

## Your advantages with the CMP ELVCD

- Compact decentralized installation
- High continuous and peak power
- Robust structure with convection cooling
- Easy installation with DC 48 V extra-low voltage
- All connections pluggable
- High degree of protection IP65
- UL-approved<sup>1)</sup>
- Integrated braking resistor
- Optional encoder systems and brake
- Flexible gear unit combination
- Integrated engineering with the integration of the MOVI-PLC® controller
- Coordinated multi-axis movements can be realized with our MOVI-PLC® motion and logic controller

<sup>1)</sup> in preparation



### Necessary and complementary products

The CMP ELVCD is always combined with the MOVI-PLC® controller. All control tasks are determined centrally and transferred to the drives synchronously. Complex motion profiles and robotic tasks are possible.

Almost all gear unit combinations that can be combined with the CMP50M or CMP50S motor system can also be realized with the CMP ELVCD.



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