

# EPS-ACO AMPSEAL

THE STEERING CONTROLLER  
FOR EVERY NEED



## INFORMATION

EPS ACO Ampseal is an electrical steering controller suited for performing the steer-by-wire function by electric or hydraulic actuation, compatible with induction or brushless motors. It can interface with other devices via CAN bus. Redundancy of microcontrollers and sensors makes possible to fulfill ISO13849 category #3 and performance level requirements.

## APPLICATIONS



Tow tractors and airport  
ground support vehicles



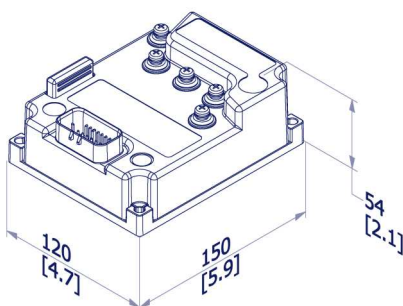
Material handling  
and AGV



Aerial-access equipment  
(AWP)

## DIMENSIONS

mm [in]



# EPS-ACO AMPSEAL

THE STEERING CONTROLLER FOR  
EVERY NEED

## FEATURES

Connector	23 - pins Ampseal
PWM voltage-controlled output	1
TFD current-controlled output	1
CAN bus interface	1
Input for motor thermal sensor	1
Set point inputs*	PWM, CAN bus, analog cross type
Motor feedback interfaces*	encoder, sin cos
Steered wheel feedback interfaces*	analog cross type, encoder + two toggle switches
Auxiliary supply output (+12/+5V)	4
Microcontrollers	2
Ambient temperature, operating	-30 °C ÷ +40 °C (-22 °F ÷ 104 °F)
Ambient temperature, storage	-30 °C ÷ +78 °C (-22 °F ÷ 172 °F)

\* The number and types of interfaces may differ upon the configuration.

## MODEL CHART

Nominal DC voltage	Maximum AC current rating (2') [Arms]
24/48 V	40, 70
48/80 V	50

Current ratings are based on an initial heat sink temperature of 40 °C (104 °F) and a maximum heat sink temperature of 78 °C (172 °F).

## REGULATIONS

UL certificate	UL 583 compliant (AU3503)
EMC	EN 12895:2015+A1:2019
Functional safety	Designed to achieve EN1175-2020 requirements, designed to achieve CATEGORY 3 according to EN13849.
IP code	IP54