

DUALACEX NEW GENERATION

THE DUAL DRIVE FOR THE LOW RANGE



INFORMATION

DUALACEX NEW GENERATION is suitable for controlling two 3-phase motors of several types (AC induction, BLDC, PMAC and SyncRel), in the range from 1 kW to 3.5 kW continuous power. The high number of I/Os distributed using up to 35P + 23P poles Ampseal connectors accommodates a wide range of vehicle controls and sensors. DUALACEX NEW GENERATION can also interface with a wide range of external devices via CAN bus.

APPLICATIONS



Material handling
and AGV



Aerial-access equipment
(AWP)



E-mobility



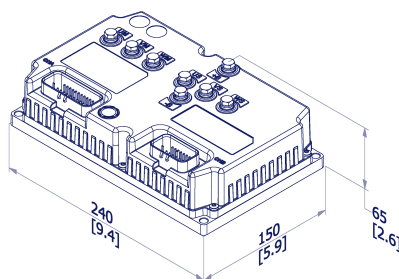
Construction equipment



Cleaning

DIMENSIONS

mm [in]



DUALACEX NEW GENERATION

THE DUAL DRIVE FOR THE LOW RANGE

FEATURES

Description	Premium	Standard	Value
Ampseal connectors	35 + 23 pins	35 pins	23 pins
Digital inputs	18 *	6 *	3
Analog inputs	8 *	6 *	2
PWM voltage-controlled outputs	10	6	3
ON/OFF outputs	2	1	-
PWM current-controlled output	2	1	1
CAN bus interface	1	1	1
Input for motor thermal sensor	2	2	2
Encoder interface	2	2	2
Sin-cos / 3-Hall / PWM interfaces	2 (optional)	2 (optional)	-
High-side output	1	1	-
Auxiliary supply outputs (+12/+5V)	3	2	2
Microcontrollers		2	
Ambient temperature, operating	-40 °C ÷ +40 °C	(-40 °F ÷ 104 °F)	
Ambient temperature, storage	-40 °C ÷ +85 °C	(-40 °F ÷ 185 °F)	

* In combination with two incremental encoders.

MODEL CHART

Nominal DC voltage	DC Voltage range	Maximum AC current rating (2') [Arms] ¹⁾	S2 60-min AC current rating [Arms] ¹⁾
24 V	11 V ÷ 35 V	240, 200, 165, 120, 100, 80	120, 100, 80, 60, 50
36/48 V	11 V ÷ 72.5V	210, 180, 140, 90, 70	90, 85, 70, 45, 55

Current ratings are based on an initial heat sink temperature of 40 °C (104 °F) and a maximum heat sink temperature of 85 °C (185 °F).

1) Each of the two AC sections.

REGULATIONS

UL certificate	UL 583 compliant (AU3503)
EMC	EN 12895:2015+A1:2019
Functional safety	Designed to fulfill EN1175-2020 requirements. Design architecture based on CATEGORY 2 according to EN13849; CATEGORY 3 achievable. Designed to achieve requirements of EN280.
IP code	IP65