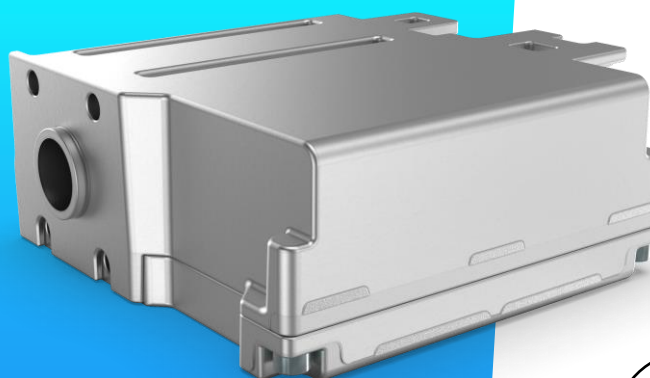


Electromechanical Actuator 46 [EMA 46]



Product classification

Name	Typ. max. actuation force [@ 7 A]
EMA 46	315 N

Proportional
valves

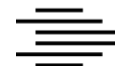
Directional
valves

**Smart
products**

Special
designs

Benefits and Application

- ≡ No pilot pressure necessary
- ≡ Overshoot free
- ≡ Oscillation free
- ≡ Sophisticated thermal and voltage management
- ≡ Easy configuration by **TSC**



Performance Data

Temperature range for normal operation	- 40 °C to + 100 °C (ambient temp. with circulating air. EMA mounted to a sectional valve)
Temperature range for reduced operation	+ 100 °C to + 120 °C (ambient temp. with circulating air. EMA mounted to a sectional valve)
Working stroke	22 mm
Speed	up to 90 mm/s
Forces typ. max. actuation: typ. max. holding: typ. dyn. start up:	315 N @ 7 A 410 N @ 7 A 410 N @ 8,5 A
Repeatability	± 16 µm
Resolution	6 µm

Electrical Data

Voltage	12 V	24 V
Operating voltage	$U_{\min} = 9 \text{ V}$ $U_{\max} = 16 \text{ V}$	$U_{\min} = 15,5 \text{ V}$ $U_{\max} = 33 \text{ V}$
Idle current (without holding current)	80 mA	60 mA
Holding current Extend / Retract Neutral	~ 470 mA ~ 180 mA	500 mA 300 mA

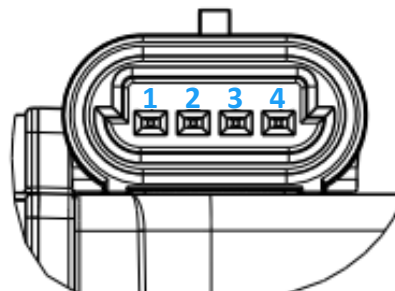
Additional data

Weight	1027 g (without gear rack)
Protection class	IP6K6 / IPX9K

Plug and Pin assignment

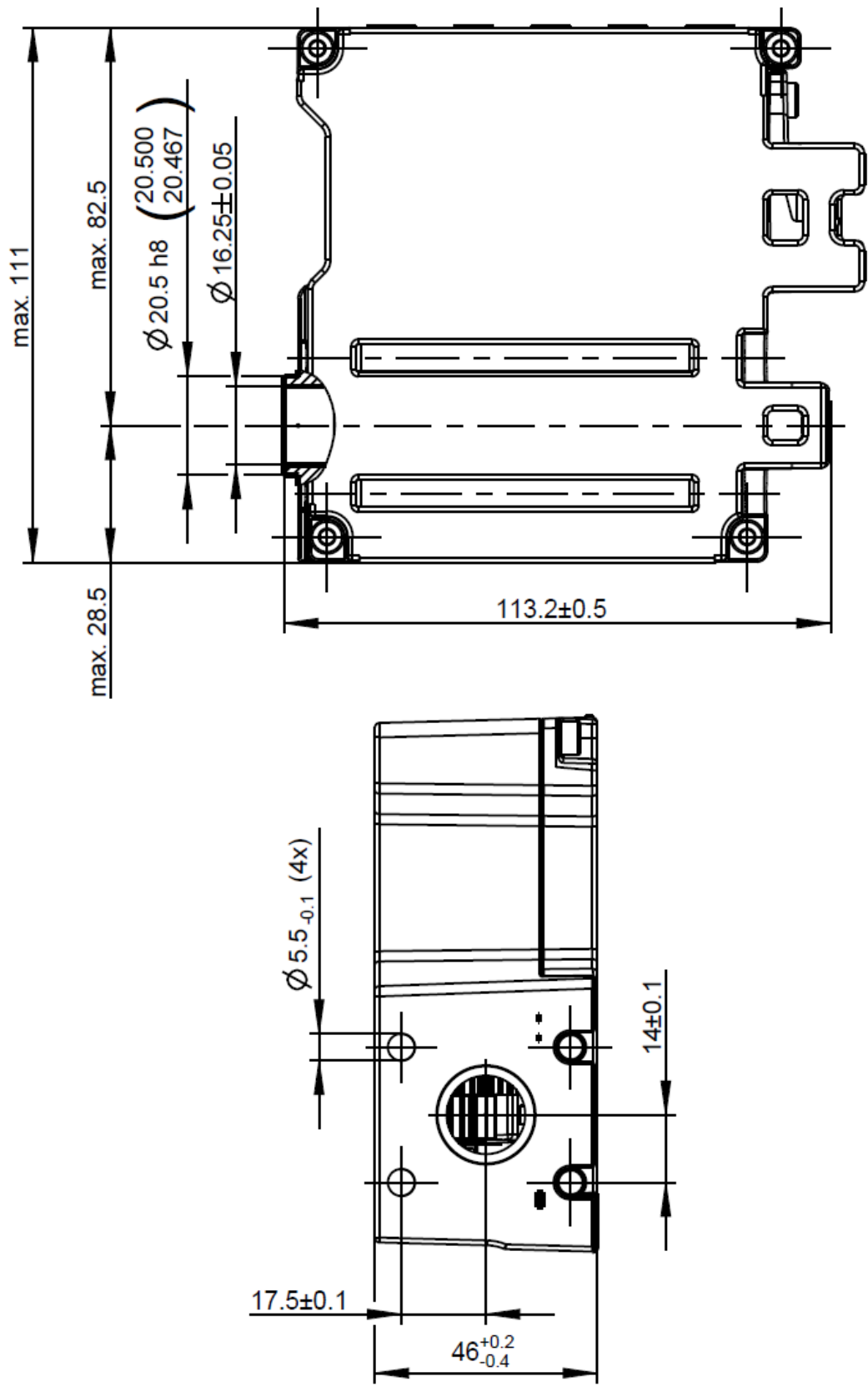
Pin number	Function
1	CAN High
2	CAN Low
3	GND ground
4	Supply voltage

Delphi Metri Pack 150





Dimensions [mm]





EMA 1.46 Standard

Thomas Model Code

EMA1.46 S V2.2 U1 F3

EMA1.46 S V2.1 U2 F3

EMA 1.46 Standard

Part No.

Voltage

UpForce

HoForce

ActForce

J1939

1020288

12 V

410 N

410 N

315 N



1019537

24 V

410 N

410 N

315 N



DISCLAIMER



The presented information is based on current knowledge and provides only non-binding information to the customer. Any liability in connection with this information is excluded. It is the responsibility of the customer to determine the suitability and appropriateness of the product for his intended purpose. We reserve the right to change the product with regard to technical progress and new developments.

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