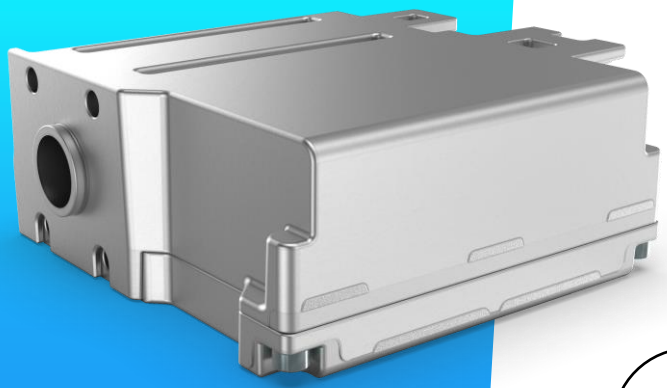
Electromechanical Actuator 46 [EMA 46]



Proportional valves

Directional valves

Smart products

Special designs

Product classification

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

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 V U_{max} = 16 V	U_{min} = 15,5 V U_{max} = 33 V
Idle current (without holding current)	80 mA	60 mA
Holding current Extend / Retract Neutral	 ~ 470 mA ~ 180 mA	 500 mA 300 mA

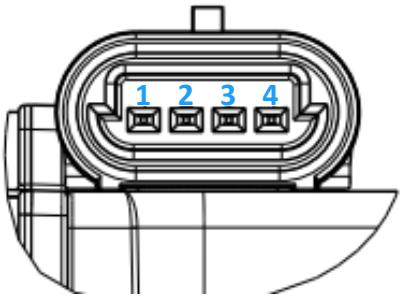
Additional data

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

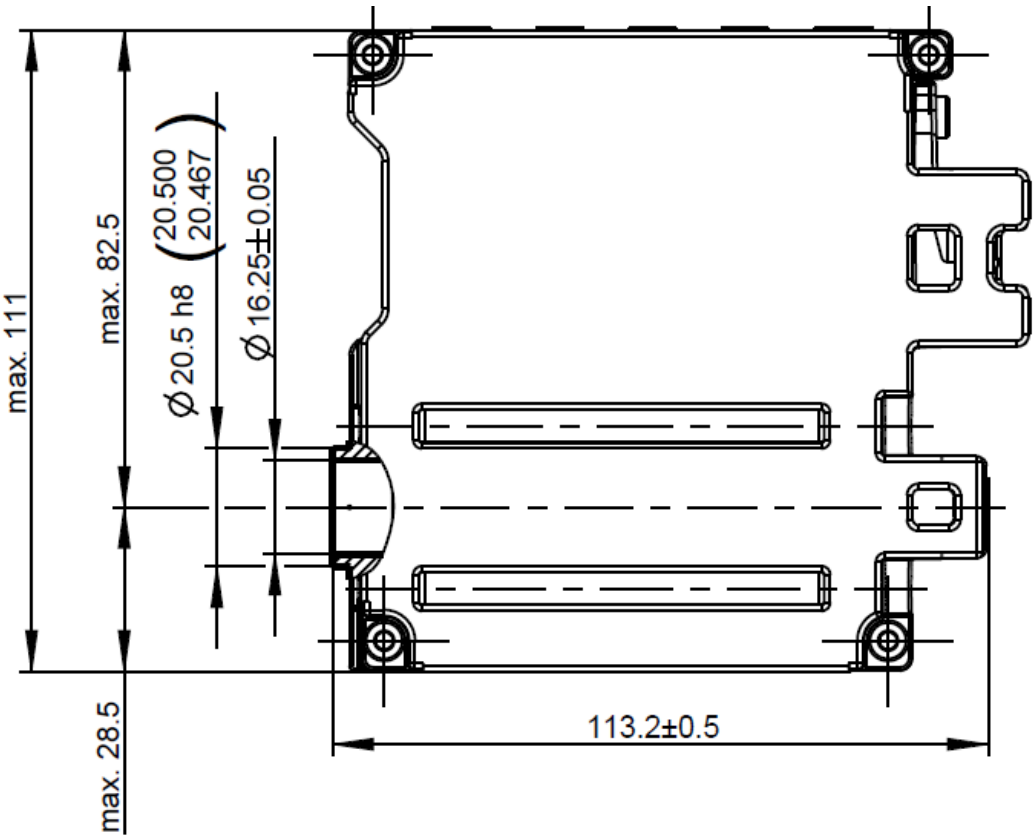
Plug and Pin assignment

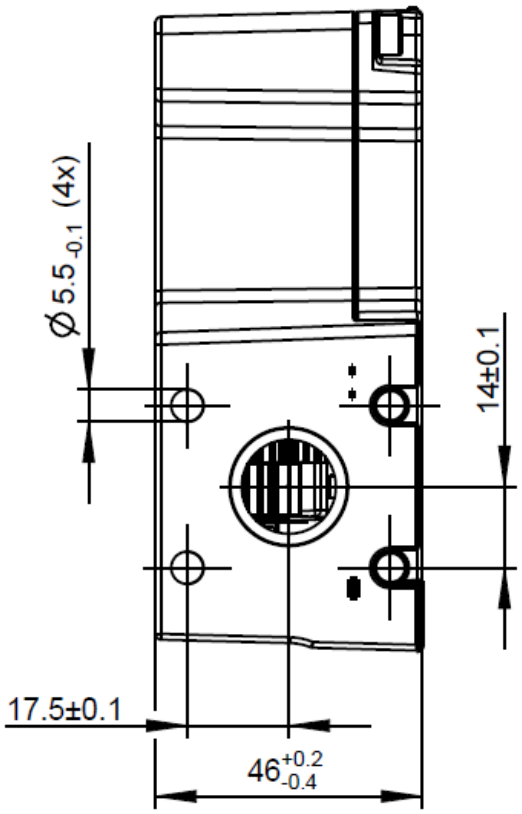
Pin number	Function
1	CAN High
2	CAN Low
3	GND ground
4	Supply voltage

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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