“tough tech for tough environments“

PA-R-205-6 servo-actuator

Pegasus Actuators GmbH

data sheet - technical specifications

Supply data:
Operating voltage: 18V - 32V
Operating voltage typical: 28V
Standby current: 20mA

Input signal:
PWM signal, TTL level (standard)
PWM signal, differential (RS485 transceiver) (optional)
or RS485 data protocol (optional)

PWM parameter:
Frame rate: 2,6 - 1000ms
Valid pulse length: 1,0 - 2,0ms
left / center / right: 1,0ms - 1,5ms - 2,0ms

Position feedback:
analog, differential: 0-5V
Scale factor: 27.78 mV/deg.

Performance data:
Stall torque: > 350Ncm (> 495 oz-in.)
Rated torque**: 180Ncm (255 oz-in.)
Speed at rated torque: 140°/sec.
No load speed: 210°/sec.
Gear train backlash: < 0,5°
Travel angle: ± 90° (-5%)
Maximum Travel angle (optional): ± 170° (-5%)
Slip clutch lock out momentum: 350Ncm (495 oz-in.) +20%
Peak current - short time: 1100mA
Stall current - continuous: 280mA (limited)
Minimum detectable signal step: max 0,25µsec. (adjustable)
Weight: 150g (5,29 oz)

**according to specifications of Pegasus Actuators GmbH
(please inquire the test-specifications)

Environmental data:
Axial load on output shaft < 50N
Lateral load on output shaft < 150N
Operating temperature: -40°C - +70°C (-40°F - +158°F)
Storage temperature: -40°C - +80°C (-40°F - +176°F)

Environmental specifications:
Vibration test: IEC 68-2-6 / EN 60068-2-6
Shock test: IEC 68-2-32
Protection class: IP67

PA-R-205-6 servo-actuator

Pegasus Actuators GmbH

data sheet - technical specifications

Main components:

Case: IP67 water and dust protected with solid vertical and horizontal 4-point fixation.
material: CNC machined aluminum, bead blasted and anodized.

Gear train: hardened steel spur gear type, 6 ball races with rigid output shaft (optional with slip clutch output shaft), output shaft with defined alignment.

Motor: Neodym-magnet DC motor, double ball raced.

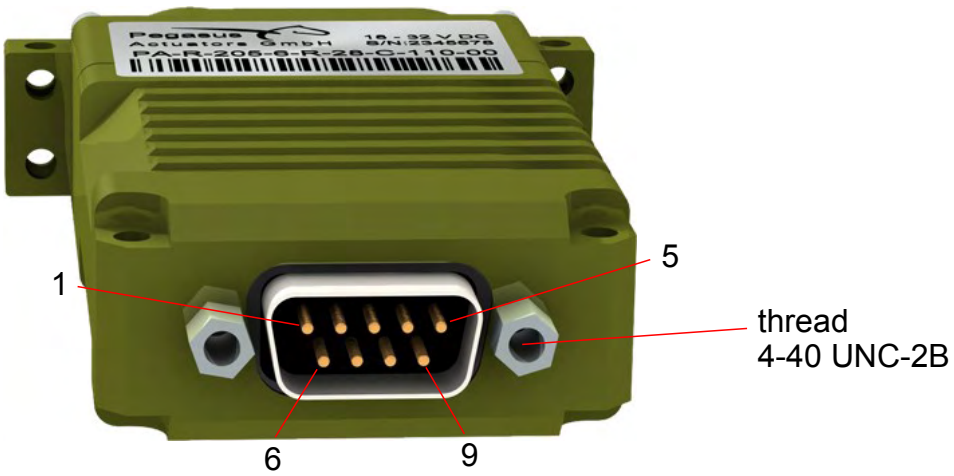
Amplifier: digital positioning controller

Sensor travel angle:
mechanical: 360° (no end stops)
electrical - (standard): ± 45°
electrical - (optional): ± 160°

Actuator connector:
D -Sub male, 9-pin, IP 67

Connector assignment PWM / TTL
1 PWM signal input A
2 Not connected
3 Position feedback output A
4 Not connected
5 Case ground
6 Power input 18 - 32 volts (DC)
7 Power return
8 Not connected
9 Position feedback output B

Connector assignment PWM / differential
1 PWM signal input A
2 PWM signal input B
3 Position feedback output A
4 Not connected
5 Case ground
6 Power input 18 - 32 volts (DC)
7 Power return
8 Not connected
9 Position feedback output B

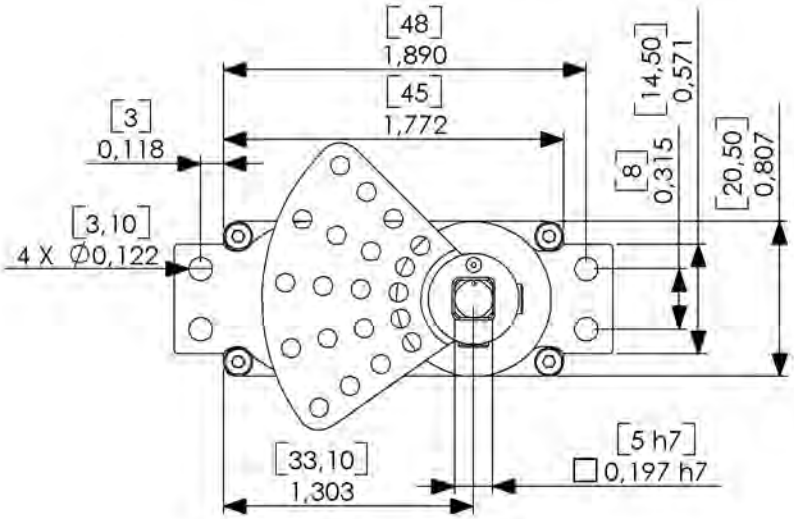


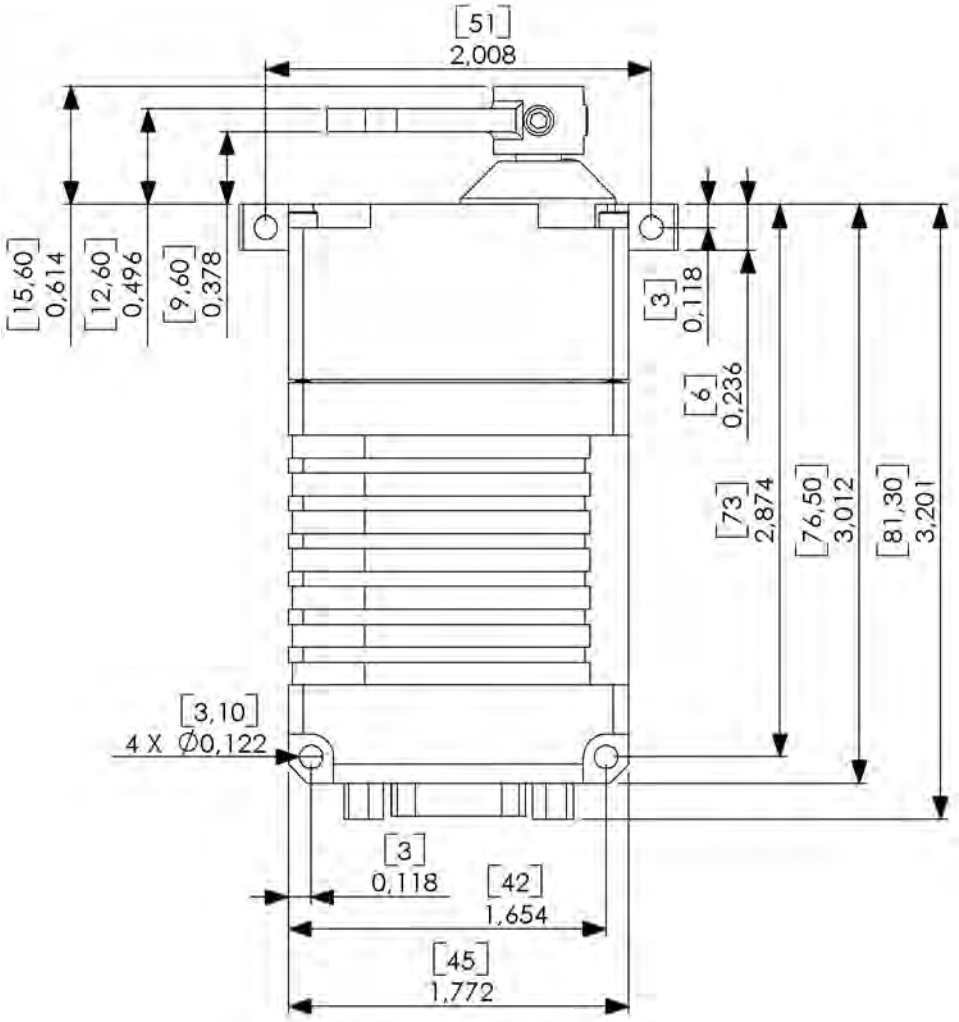
“tough tech for tough environments“

PA-R-205-6 servo-actuator

Pegasus

Actuators GmbH



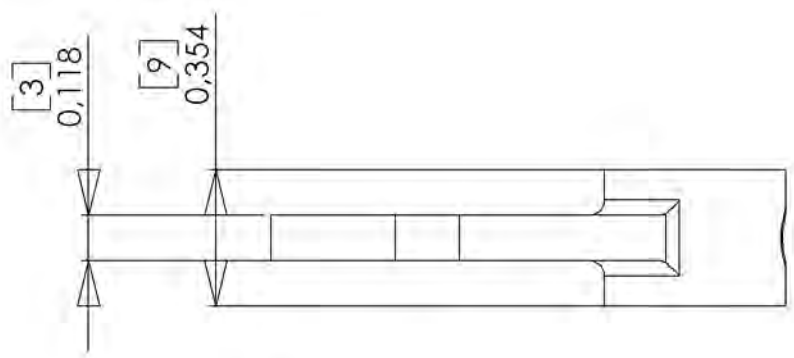


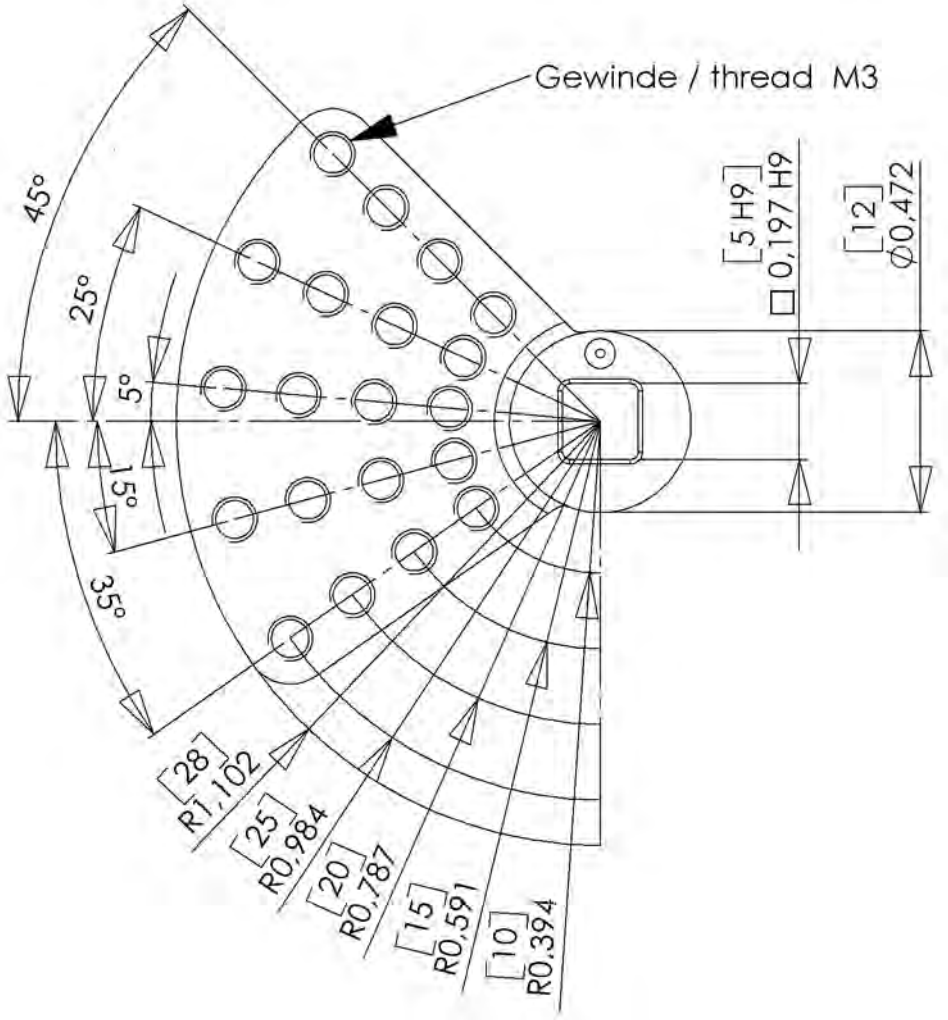
- dimensions are in: [mm] inch
- scale 1:1

“tough tech for tough environments“

Multi purpose output arm - PA-UL 001

Pegasus Actuators GmbH

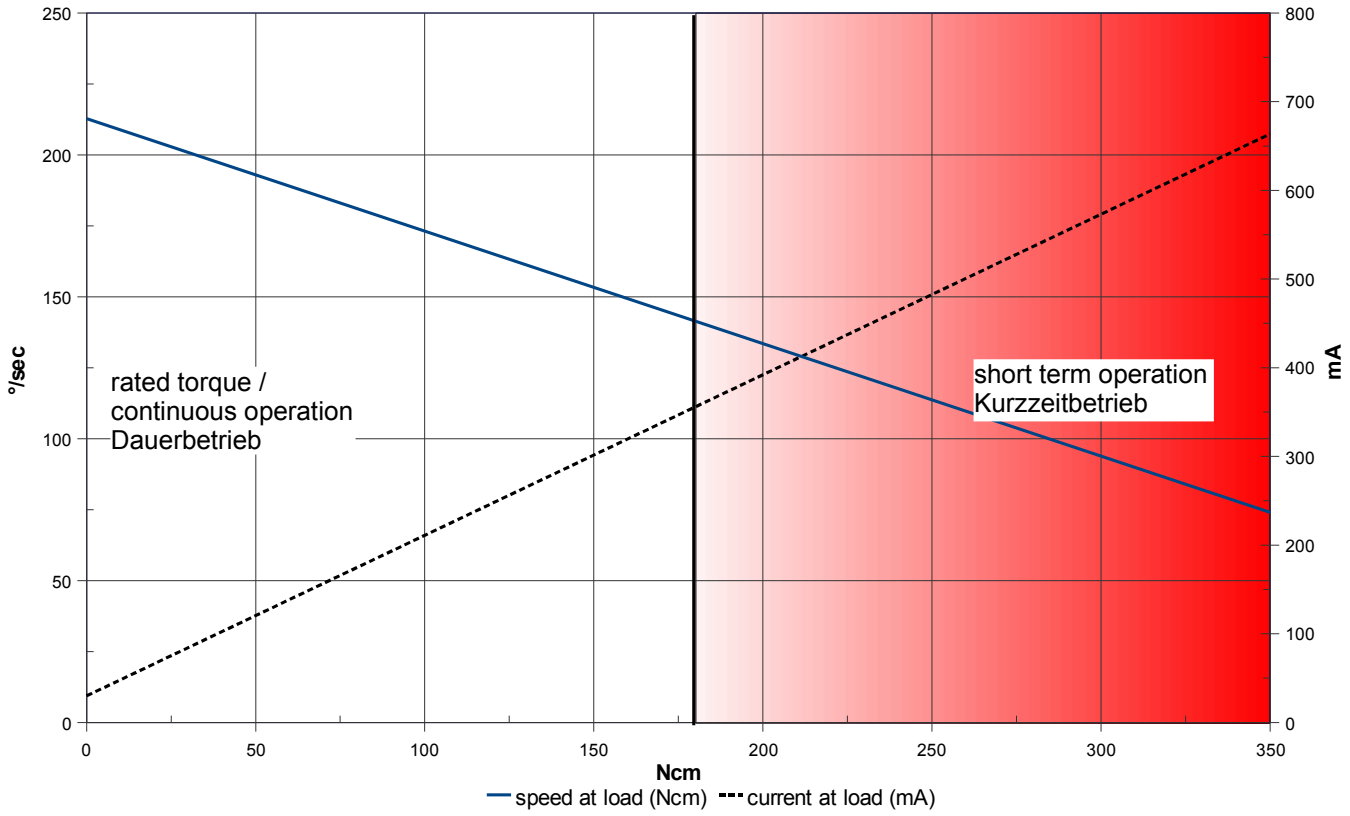




- dimensions in: [mm] inch
- scale 2:1

PA-R-205-6 servo-actuator

Pegasus
Actuators GmbH



The overload protection limits the performance of the actuator during overload conditions.

Der Überlastschutz limitiert die Leistung des Aktuators während einer Überlastungssituation.