

Positioning drive

- Features:**
- CANopen
 - Integrated 1Q controller
 - Integrated power electronics
 - DC permanent magnet motor
 - Absolute multi-turn encoder
 - Life time: 2,000 h
 - Isolation class: B, optional F
 - Protection class: IP 42, optional up to IP 65
 - Ambient temperature: -15°...40°C



| Type | Description | U | V _{DC} | PSA 5230 | | | |
|---------------------------|------------------------|---|------------------|------------|--|--|--|
| | Nominal voltage | | | 24 | | | |
| Technical data | Nominal power output | P ₂ | W | 20.5 | | | |
| | Nominal speed | n _{nom} | rpm | 3200 | | | |
| | Nominal torque | M _{nom} | cNm | 6.0 | | | |
| | Nominal current | I | A | 1.3 | | | |
| | Stall torque | M | cNm | 45.0 | | | |
| | No load speed | n | rpm | 3500 | | | |
| | No load current | I | A | 0.30 | | | |
| | Positioning resolution | | | 45° | | | |
| Ascertainable revolutions | | | 500 Mio | | | | |
| Characteristics | Gradient speed-torque | 1 / K | mNm / rpm | 0.13 | | | |
| | Speed constant | k _n | rpm / V | 133 | | | |
| | Torque constant | k _t | cNm / A | 4.62 | | | |
| | Nominal efficiency | η | % | 65 | | | |
| Dynamics | Weight | m | kg | 0.7 | | | |
| | Moment of inertia | J | gcm ² | 257 | | | |
| Thermal conditions | Ambient temperature | T _a | °C | -20 to +40 | | | |
| | Max stator temperature | T _{max} | °C | +120 | | | |
| Mechanical data | Shaft diameter | d | mm | 6 | | | |
| | Max. axial force | F _a | N | 8 | | | |
| | Max. radial force | F _r | N | 100 | | | |
| Communication | Fieldbus Profile | CANopen v. 2.0B DS-301 v. 4.02 DSP-305 v. 1.0 | | | | | |
| | Max. baud rate | 1 Mbit/s | | | | | |
| Dimensions | Type | L / mm | | | | | |
| | PSA 5230 | 95.5 | | | | | |

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|----------------------------|---|-------|------|
| Gear - combinations | Worm gear | S 567 | GS 1 |
| | Spur gear | Z 5 | |
| | Planetary gear | PM 40 | |
| | other gears and extensions upon request | | |