

RB6040



Incremental encoder with solid shaft

RB-0500-I24/L2E

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- 1 reference mark
- 2 M3 Depth 5 mm



Product characteristics

| | |
|---------------------|----------------|
| Resolution | 500 resolution |
| Shaft design | solid shaft |
| Shaft diameter [mm] | 6 |

Electrical data

| | |
|--------------------------|------------|
| Operating voltage [V] | 10...30 DC |
| Current consumption [mA] | 150 |

Outputs

| | |
|-----------------------------------|--------|
| Electrical design | HTL |
| Max. current load per output [mA] | 50 |
| Switching frequency [kHz] | 160 |
| Type of short-circuit protection | < 60 s |
| Phase difference A and B [°] | 90 |

Measuring/setting range

| | |
|------------|----------------|
| Resolution | 500 resolution |
|------------|----------------|

Operating conditions

| | |
|--------------------------------|-----------|
| Ambient temperature [°C] | -20...70 |
| Storage temperature [°C] | -30...100 |
| Max. relative air humidity [%] | 98 |
| Protection | IP 66 |

Tests / approvals

| | |
|----------------------|---------------------|
| Shock resistance | 100 g (6 ms) |
| Vibration resistance | 10 g (55...2000 Hz) |

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| Mechanical data | | |
|---|------|-----------------|
| Dimensions | [mm] | Ø 36.5 / L = 38 |
| Materials | | aluminium |
| Max. revolution, mechanical [U/min] | | 10000 |
| Max. starting torque | [Nm] | 1 |
| Reference temperature torque | [°C] | 20 |
| Shaft design | | solid shaft |
| Shaft diameter | [mm] | 6 |
| Shaft material | | steel (1.4104) |
| Max. shaft load axial (at the shaft end) | [N] | 5 |
| Max. shaft load radial (at the shaft end) | [N] | 10 |

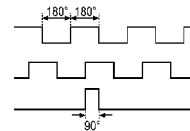
Electrical connection

Cable: 2 m, PUR; radial, can also be used axially

| | |
|-------------|------------------|
| white/green | 0V |
| brown/green | L+ |
| brown | A |
| green | 0V A |
| grey | B |
| pink | 0V B |
| red | 0 index |
| black | 0V 0 index |
| lilac | failure inverted |
| screen | housing |

Diagrams and graphs

Pulse diagram



Output A
Output B
0 index

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