

MLFB-Ordering data                      6FX2001-4HB00



Figure similar

Client order no. :  
Order no. :  
Offer no. :  
Remarks :

Item no. :  
Consignment no. :  
Project :

| Electrical data                |   | Mechanical data                 |                 |
|--------------------------------|---|---------------------------------|-----------------|
| Operating voltage Up           | DC 10 ... 30 V  | Shaft diameter                  | 6 mm            |
| Max. power consumption without | 150 mA  | Shaft length                    | 10 mm           |
| Signal level                   | UH >= 21 V at IH = 20 mA at 24 V;<br>UL <= 2,8 V at IL = 20 mA at 24 V                                    | Angular acceleration, max.      | 100000 rad/s²   |
|                                |   | Moment of inertia of rotor      | 0.00000145 kgm² |
| Resolution                     | 1000 S/R  | Vibration (55...2000 Hz), max.  | 300 m/s²        |
| Accuracy                       | 65 rad  | Friction torque (at 20°C), max. | 0.01 Nm         |
| Sampling frequency, max.       | 300 kHz   | Starting torque (at 20°C), max. | 0.01 Nm         |
| Switching time (10 ... 90 %)   | = 200 ns  | Net weight                      | 0.3 kg          |
|                                | Rise / fall time t+/t- <=   | Max. admissible speed           |                 |
| Phase relation signal A to B   | 90°   | Electrical                      | 18000 rpm       |
| Edge clearance at 300 kHz      | 0.45 µs   | Mechanical                      | 12000 rpm       |
| LED failure monitoring         | High impedance driver   | Load capacity                   |                 |
| Cable length                   |   | n <= 6000 rpm                   |                 |
| To the downstream electronics, | 300 m   | - Axial                         | 40 N            |
|                                |   | - Radial at shaft end           | 60 N            |
|                                |   | n > 6000 rpm                    |                 |
|                                |   | - Axial                         | 10 N            |
|                                |   | - Radial at shaft end           | 20 N            |
|                                |   | Shock, max.                     |                 |
|                                |   | 2 ms                            | 2000 m/s²       |
|                                |   | 6 ms                            | 1000 m/s²       |
|                                |   | Degree of protection            |                 |
|                                |   | Without shaft input             | IP67            |
|                                |   | With shaft input                | IP64            |
| Standards                      |   |                                 |                 |
| Compliance with standards      | CE, cULus   |                                 |                 |
| EMC class filter               | Tested according to the EMC guidelines 89/336/EEC and the rules of the EMC guidelines (generic standards) |                                 |                 |