

Brushless DC-Servomotors

0,36 mNm

For combination with Gearheads: 06/1 Encoder: PA2-50, HXM3-64 Drive Electronics: SC 1801, BLD 2401, MCBL ...

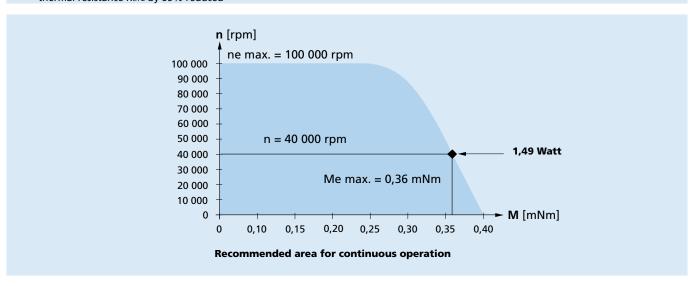
0,367

0,144

Α

Series 0620 ... B 006 B 012 B Nominal voltage Un Volt 12 2 Terminal resistance, phase-phase 3 Output power ¹⁾ 9,1 R 59.0 Ω W P₂ max. 1.47 1.49 4 Efficiency 50 % 52 η max 46 500 35 600 5 No-load speed rpm no 6 No-load current (with shaft ø 1,0 mm) 0.062 l۵ 0,020 mNm Мн Stall torque 0.73 0,57 Friction torque, static 0,023 0.023 mNm Co 1,0 ·10⁻⁶ 1,0 ·10⁻⁶ mNm/rpm 9 Friction torque, dynamic rpm/V 3 282 10 Speed constant kn 8 451 11 Back-EMF constant mV/rpm kε 0,118 0,305 12 Torque constant kм 1,13 2,91 mNm/A 13 Current constant kι 0,885 0,344 A/mNm 68 054 14 Slope of n-M curve Δn/ΔM 66 533 rpm/mNm 15 Terminal inductance, phase-phase 187 μH 26 Mechanical time constant τ m ms 0,0095 Rotor inertia 0,0095 gcm² 18 Angular acceleration α max 601 ·10³rad/s² 19 Thermal resistance Rth 1 / Rth 2 14 / 88,0 K/W 20 Thermal time constant 1 / 149 τ w1 / τ w2 Operating temperature range: – motor - coil, max. permissible +125 Shaft bearings ball bearings, preloaded 23 Shaft load max. - radial at 10 000/50 000 rpm (3,7 mm from mounting flange) 2,0 / 1,5 0,6 / 0,2 - axial at 10 000/50 000 rpm (push-on only) Ν - axial at standstill (push-on only) 10 Ν 24 Shaft play: ₹ – radial 0.012 mm – axial mm aluminium, black anodized 25 Housing material Weight 2,5 electronically reversible 26 g 27 Direction of rotation Recommended values - mathematically independent of each other 100 000 100 000 28 Speed up to ² ne max. rpm 29 Torque up to 1) 2) Me max 0.351 0.356 mNm Current up to 1) 2)

le max.



¹⁾ at 40 000 rpm

²⁾ thermal resistance Rth 2 by 55% reduced



Options

K1855:

Motors for operation with Motion Controllers MCBL 3003/06 S, MCBL 3003/06 C.

