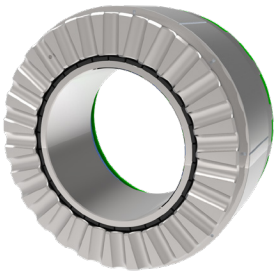


MinebeaMitsumi
Passion to Create Value through Difference

BLDC 130

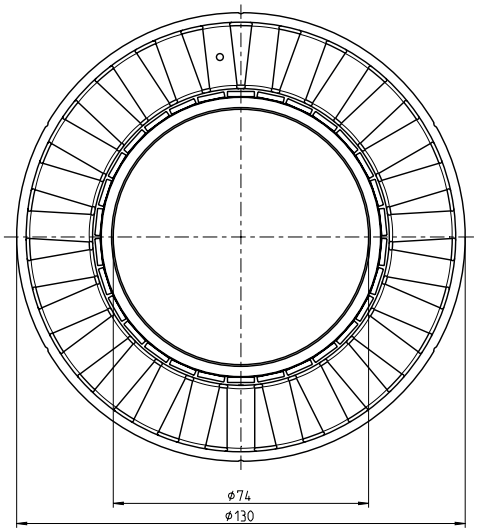
S40K- 48V MAXIMUM POWER DESIGN*

16.P3.1.160Y

preliminary datasheet

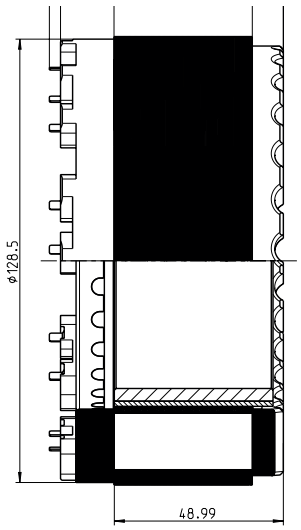
Rated voltage [V]	No load speed**** [rpm]	Rated speed** [rpm]	Rated power** [W]	Rated torque** [mNm]	Rated current** [A]	Max. Efficiency [%]	Max. torque*** [Nm]
48	2260	1950****	413	2020****	10.5	92	21

*) Rotor magnets are protected against impacts
**) Based on heat test results with winding temperature rise of ΔT= 70K and no heat conduction to outside. Measured at 25°C ambient temperature (also valid for motor characteristics on 2nd page).
***) Theoretical stall current, Istall= 111 A
****) Highly dependent on installation situation



General Information

- Class of protection: IP20
- Duty cycle: up to 100 %
- Torque constant: 185 mNm/A
- Weight: 1900 g
- Ambient Temp Range: 0 °C to +40 °C
- Insulation class for winding: B (130 °C)
- Max. Temp. Rise: 70 K
- Direction of Rotation: CW / CCW
- Number of Poles: 30
- Terminal resistance [Rph-ph]: 40 mOhm
- Terminal inductance [Lph-ph]: 140 µH
- Thermal resistance winding-air: 1.5 K/W

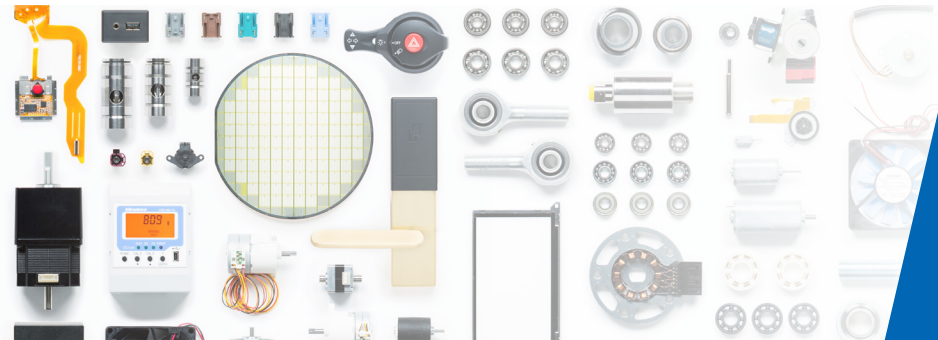


Features

- High power-to-volume ratio
- High efficiency at duty point
- High reliability

Options

- Sensorless Operation: Yes



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BLDC 130

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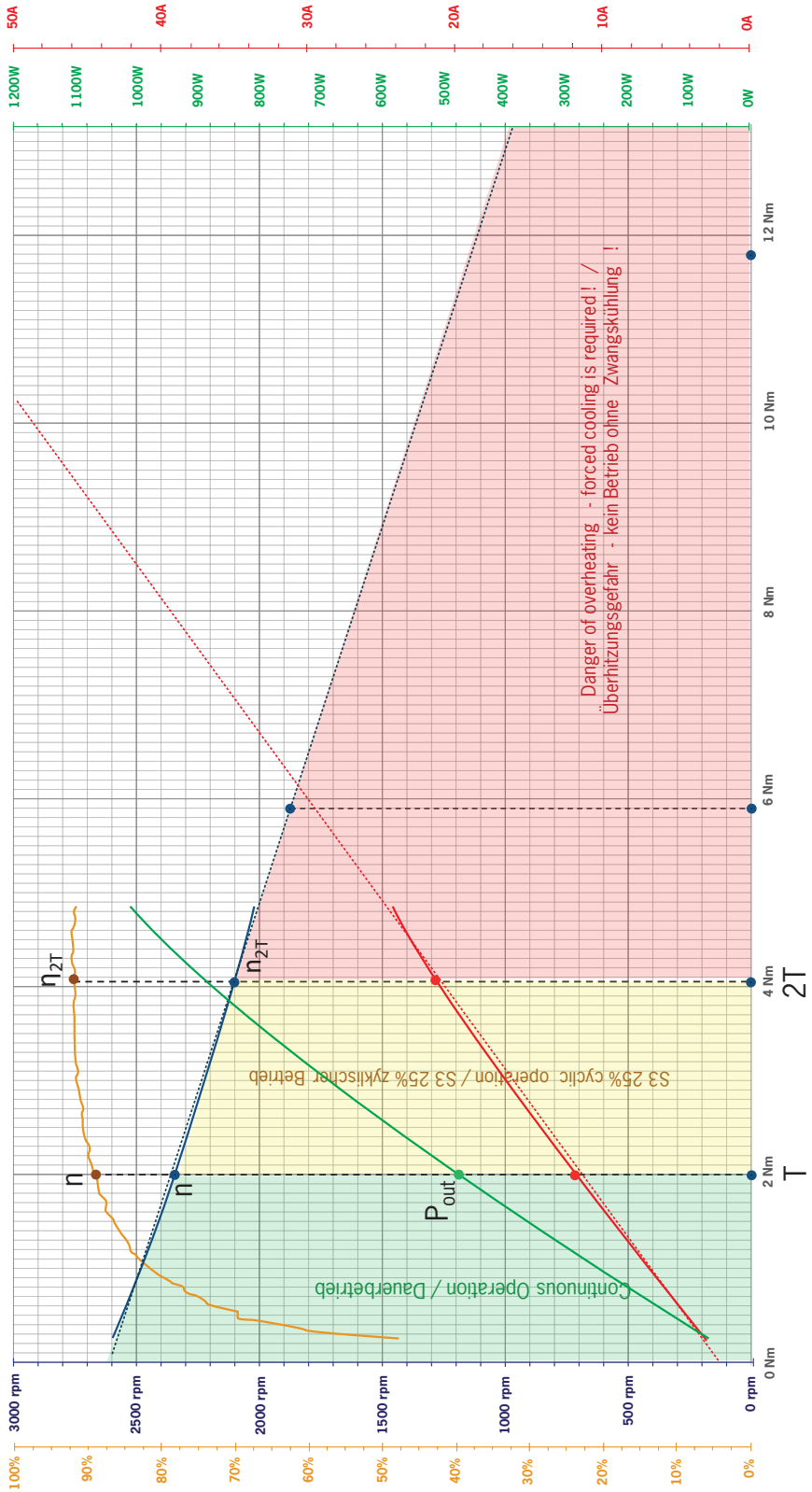
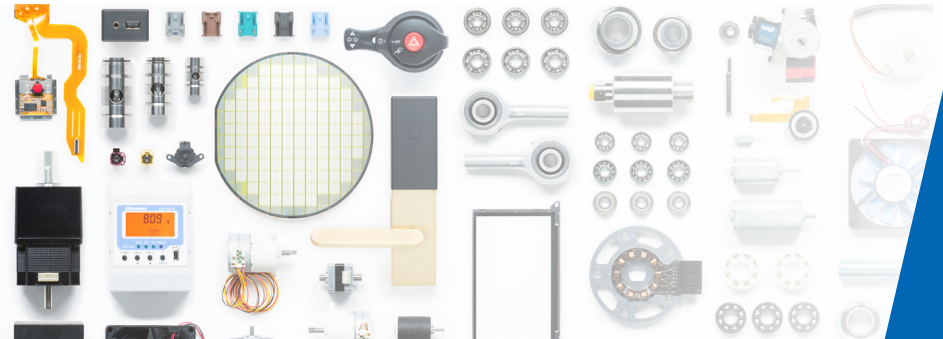


n_0	No load speed	P_{out_max}	Max. Output Power	I Rated current
n	Rated rotation speed	P_{out}	Output Power	I_s Stall current
n_{2T}	Rated rotation speed in S3	T	Rated torque	
		T_s	Stall torque	



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