

# ESKH80-80NR 10-pole + Gear PI50 i=68:1

Groschopp-Nr.: 2505061001 + 2505096

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## Technical data motor:

Motor type:	Stainless steel synchronous motor ESKH80-80NR
Cooling:	Convection
Winding:	WK 17972-09-08
Connection:	Star
Wiring diagram:	S61-2401-23
Magnets:	NdFeB
Operation mode:	S1
Insulation:	Insulation class F
Protection type:	IP69K
Coil protection:	-
Temperature monitor:	KTY 84-130
Paint:	-



Additional: Cable length: 8m / Hybrid cable - Groschopp-Nr: 2430576  
Protective hose: 7m / Type HFX 1/2

## Electrical data motor:

DC bus voltage:	$U_{ZK}$	560 V <sub>DC</sub>
Number of poles:	p	10
Resistance phase-phase:	$R_{PP}$	2,7 $\Omega \pm 10\%$
Inductance phase-phase:	$L_{PP}$	14,4 mH $\pm 10\%$
Voltage constant:	$k_e$	75,4 V <sub>eff</sub> 1000 rpm
Torque constant:	$k_t$	1,2 Nm/A
Nominal speed:	$n_N$	3000 rpm
Nominal power:	$P_{2N}$	580 W
Nominal torque:	$M_N$	1,8 Nm
Nominal current:	$I_N$	2,1 A <sub>eff</sub>
Peak current:	$I_{peak}$	33 A <sub>peak</sub>
Continuous stall torque:	$M_0$	1,9 Nm

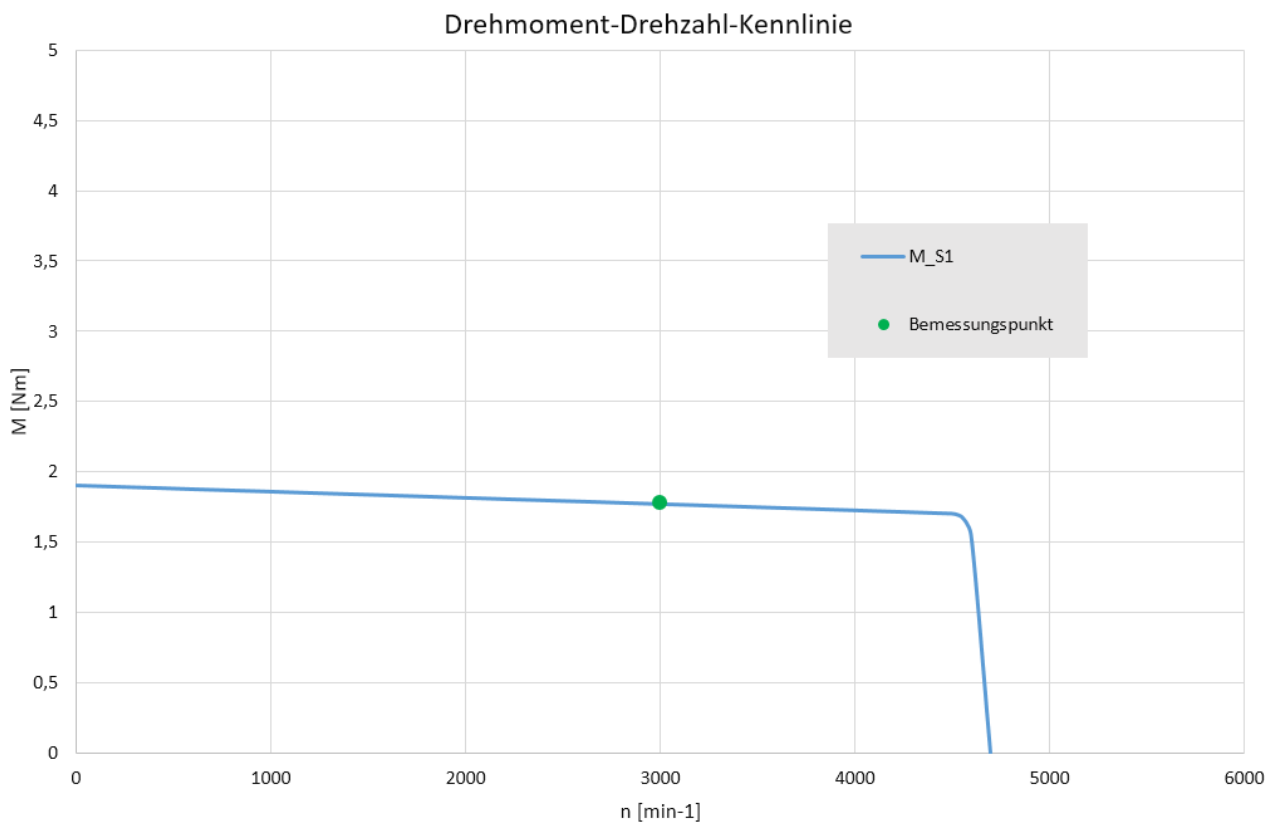
\* all values by an ambient temperature of 20°C

## Technical data gear:

Geartype:		Single worm gear PI50
Gear ratio:	i	68
Efficiency:	$\eta$	57 %
Nominal torque:	$M_{2R}$	58 Nm
Lubricant:		Shell - Omala S4 WE 320
Paint:		-
Load output shaft:		Radial: 1900N Axial: 380N
Weight:		7,3 kg
Additional:		Output shaft: Hollow shaft, stainless steel d = 25mm Mounting position: V6



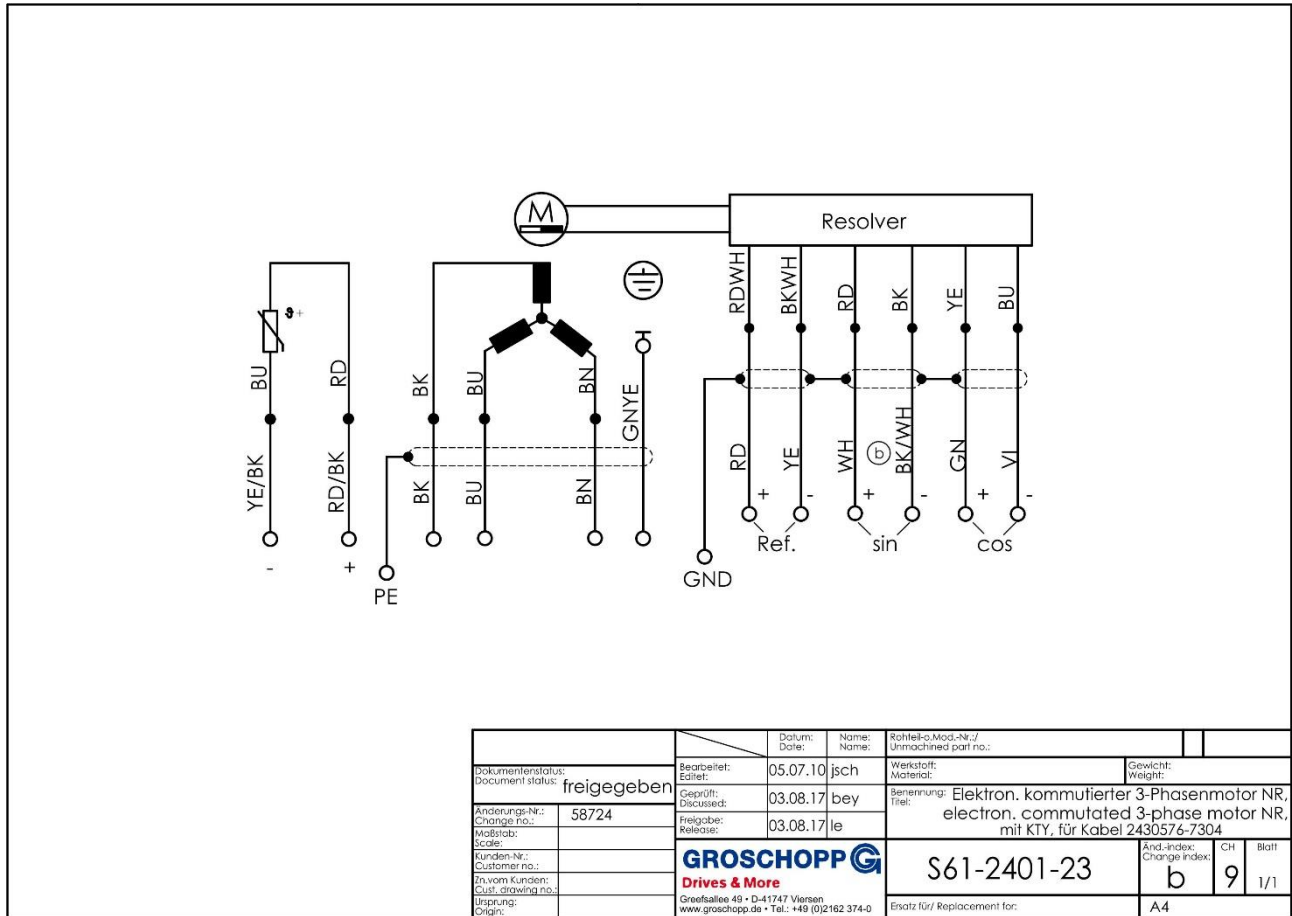
## Diagrams:



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## Wiring diagram:



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## Technical drawing:

