

RATED DATA

Motor type	H3-0270-30-48
Winding number	01-00293

Rated Speed	n_n	3000 min^{-1}
DC Bus Voltage	U_{dc}	48,0 V
Nominal AC Voltage	U_n	30,0 V
Rated Motor Voltage	U_m	24,0 V
Rated Torque	M_n	2,9 Nm
Rated AC Current	I_n	26,5 A
Stall Torque	M_o	3,3 Nm
Stall AC Current	I_o	28,6 A
Peak Torque	M_{max}	9,5 Nm
Peak Current	I_{max}	125 A
Max. Speed	n_{max}	12000 min^{-1}
EMF Constant	K_E	6,9 V/1000
Torque Constant	K_T	0,11 Nm/A
Terminal Resistance	R_{2ph}	0,06 Ω
Terminal Inductance	L_{2ph}	0,20 mH
Number of poles	$2p$	10

No Load Speed	n_o	4350 min^{-1}
Torque at I_{max}/U_n	M_z	9,4 Nm
Speed at I_{max}/U_n	n_z	1590 min^{-1}
Max. Torque at n_n	M_x	5,2 Nm

El. Time Constant	T_{el}	3,3 ms
Mech. Time Constant	T_{mech}	0,88 ms
Thermal Time Constant	T_{th}	33 min
Rotor Inertia	J	1,10 kgcm^2

Torque/speed curves

