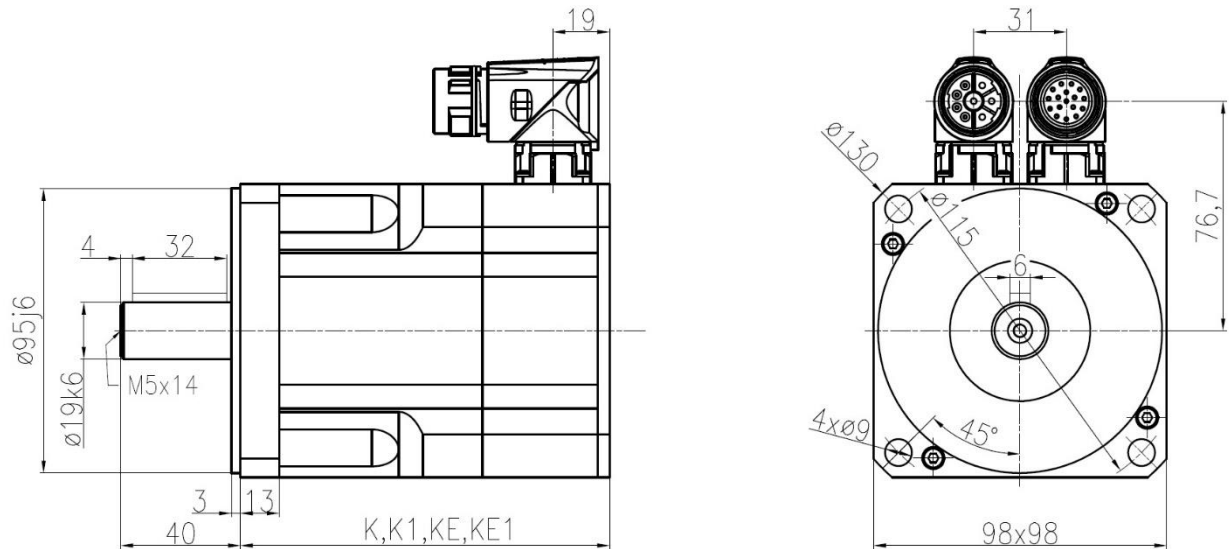


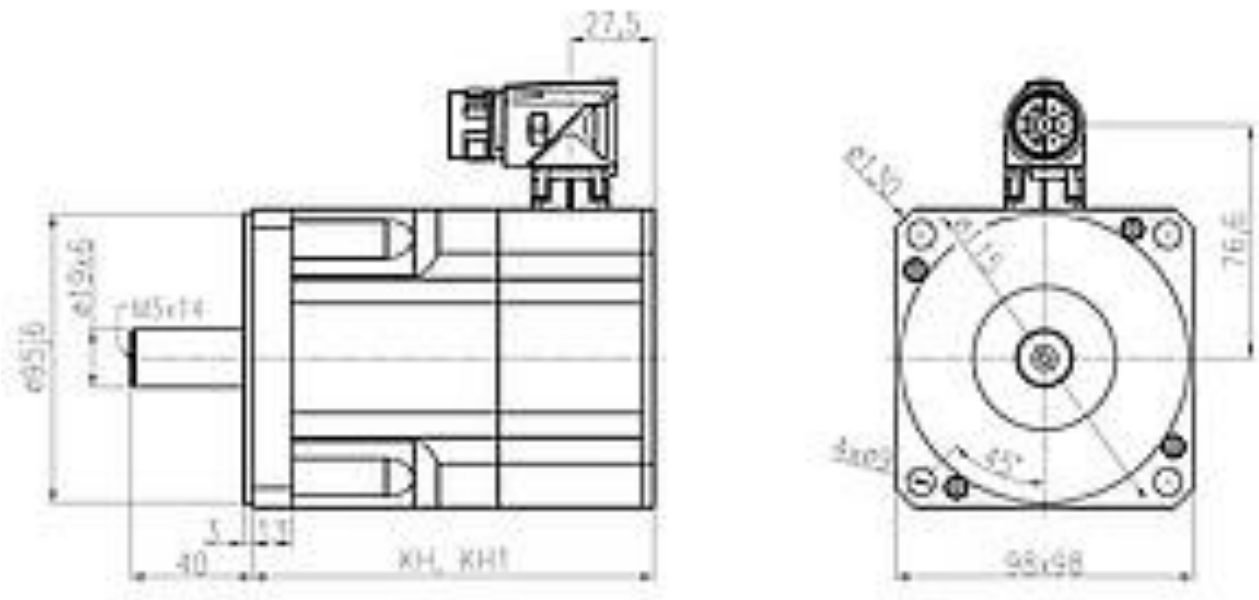
Dimensionen



Art	K (Resolver)	K1 (Resolver+Bremse)	KE (EnDAT)	KE1 (EnDAT+Bremse)
TGN4-0510	113 Millimeter	154 Millimeter	150 Millimeter	191 Millimeter
TGN4-0750	143 Millimeter	184 Millimeter	180 Millimeter	221 Millimeter
TGN4-0960	173 Millimeter	214 Millimeter	210 Millimeter	251 Millimeter
TGN4-1130	203 Millimeter	244 Millimeter	240 Millimeter	281 Millimeter

Die Länge des Motors mit Hiperface-Sensor ist die gleiche wie die Länge des Motors mit EnDat-Sensor. Bei einigen Motortypen kann es kleiner sein.

Servomotoren mit integriertem Stecker



Art	KH (DSL)	KH1 (DSL+Bremse)
TGN4-0510	132 Millimeter	182,5 Millimeter
TGN4-0750	162 Millimeter	212,5 Millimeter
TGN4-0960	192 Millimeter	242,5 Millimeter
TGN4-1130	222 Millimeter	272,5 Millimeter

RATED DATA

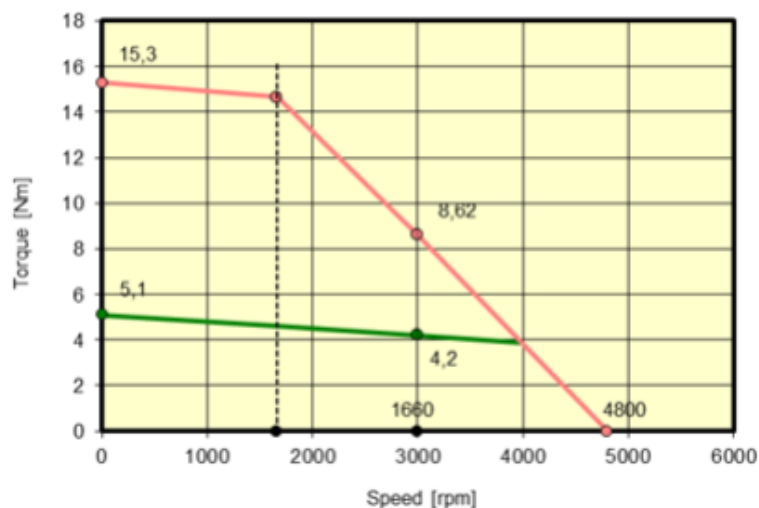
Motor type	N4-0510-30-320
Winding number	01-00708

Rated Speed	n_n	3000 min^{-1}
DC Bus Voltage	U_{dc}	320 V
Nominal AC Voltage	U_n	220 V
Rated Motor Voltage	U_m	155 V
Rated Torque	M_n	4,2 Nm
Rated AC Current	I_n	7,0 A
Stall Torque	M_o	5,1 Nm
Stall AC Current	I_o	6,8 A
Peak Torque	M_{max}	15,3 Nm
Peak Current	I_{max}	31 A
Max. Speed	n_{max}	9000 min^{-1}
EMF Constant	K_E	45,5 V/1000
Torque Constant	K_T	0,75 Nm/A
Terminal Resistance	R_{2ph}	1,24 Ω
Terminal Inductance	L_{2ph}	6,8 mH
Number of poles	$2p$	10

No Load Speed	n_o	4800 min^{-1}
Torque at I_{max}/U_n	M_z	14,7 Nm
Speed at I_{max}/U_n	n_z	1660 min^{-1}
Max. Torque at n_n	M_x	8,6 Nm

El. Time Constant	T_{el}	5,5 ms
Mech. Time Constant	T_{mech}	0,77 ms
Thermal Time Constant	T_{th}	25 min
Rotor Inertia	J	2,04 kgcm^2

Torque/speed curves



RATED DATA

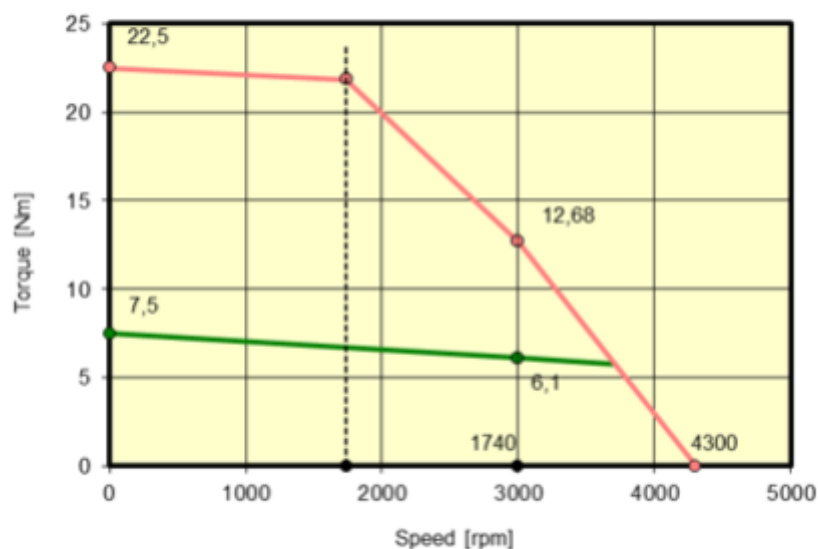
Motor type	N4-0750-30-320
Winding number	01-00710

Rated Speed	n_n	3000 min^{-1}
DC Bus Voltage	U_{dc}	320 V
Nominal AC Voltage	U_n	220 V
Rated Motor Voltage	U_m	162 V
Rated Torque	M_n	6,1 Nm
Rated AC Current	I_n	8,8 A
Stall Torque	M_o	7,5 Nm
Stall AC Current	I_o	8,9 A
Peak Torque	M_{max}	23 Nm
Peak Current	I_{max}	41 A
Max. Speed	n_{max}	9000 min^{-1}
EMF Constant	K_E	51,0 V/1000
Torque Constant	K_T	0,84 Nm/A
Terminal Resistance	R_{2ph}	0,79 Ω
Terminal Inductance	L_{2ph}	4,8 mH
Number of poles	$2p$	10

No Load Speed	n_o	4300 min^{-1}
Torque at I_{max}/U_n	M_z	22 Nm
Speed at I_{max}/U_n	n_z	1740 min^{-1}
Max. Torque at n_n	M_x	12,7 Nm

El. Time Constant	T_{el}	6,1 ms
Mech. Time Constant	T_{mech}	0,63 ms
Thermal Time Constant	T_{th}	30 min
Rotor Inertia	J	3,26 kgcm^2

Torque/speed curves



RATED DATA

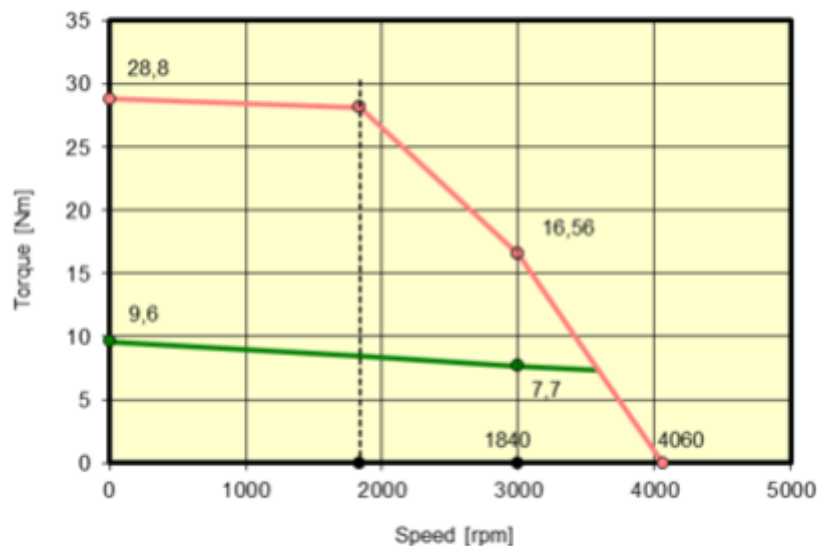
Motor type	N4-0960-30-320
Winding number	01-00712

Rated Speed	n_n	3000 min^{-1}
DC Bus Voltage	U_{dc}	320 V
Nominal AC Voltage	U_n	220 V
Rated Motor Voltage	U_m	161 V
Rated Torque	M_n	7,7 Nm
Rated AC Current	I_n	10,8 A
Stall Torque	M_o	9,6 Nm
Stall AC Current	I_o	10,7 A
Peak Torque	M_{max}	29 Nm
Peak Current	I_{max}	49 A
Max. Speed	n_{max}	9000 min^{-1}
EMF Constant	K_E	54,0 V/1000
Torque Constant	K_T	0,89 Nm/A
Terminal Resistance	R_{2ph}	0,62 Ω
Terminal Inductance	L_{2ph}	3,6 mH
Number of poles	$2p$	10

No Load Speed	n_o	4060 min^{-1}
Torque at I_{max}/U_n	M_z	28 Nm
Speed at I_{max}/U_n	n_z	1840 min^{-1}
Max. Torque at n_n	M_x	16,6 Nm

El. Time Constant	T_{el}	5,8 ms
Mech. Time Constant	T_{mech}	0,60 ms
Thermal Time Constant	T_{th}	35 min
Rotor Inertia	J	4,49 kgcm^2

Torque/speed curves



RATED DATA

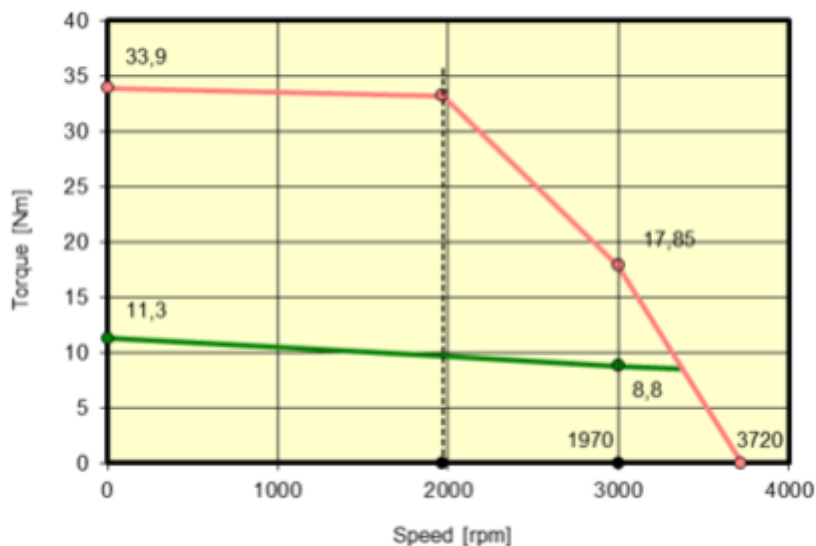
Motor type	N4-1130-30-320
Winding number	01-00829

Rated Speed	n_n	3000 min^{-1}
DC Bus Voltage	U_{dc}	320 V
Nominal AC Voltage	U_n	220 V
Rated Motor Voltage	U_m	172 V
Rated Torque	M_n	8,8 Nm
Rated AC Current	I_n	11,4 A
Stall Torque	M_o	11,3 Nm
Stall AC Current	I_o	11,6 A
Peak Torque	M_{max}	34 Nm
Peak Current	I_{max}	43 A
Max. Speed	n_{max}	9000 min^{-1}
EMF Constant	K_E	59,0 V/1000
Torque Constant	K_T	0,98 Nm/A
Terminal Resistance	R_{2ph}	0,59 Ω
Terminal Inductance	L_{2ph}	3,7 mH
Number of poles	$2p$	10

No Load Speed	n_o	3720 min^{-1}
Torque at I_{max}/U_n	M_z	33 Nm
Speed at I_{max}/U_n	n_z	1970 min^{-1}
Max. Torque at n_n	M_x	17,9 Nm

El. Time Constant	T_{el}	6,3 ms
Mech. Time Constant	T_{mech}	0,61 ms
Thermal Time Constant	T_{th}	40 min
Rotor Inertia	J	5,70 kgcm^2

Torque/speed curves



RATED DATA

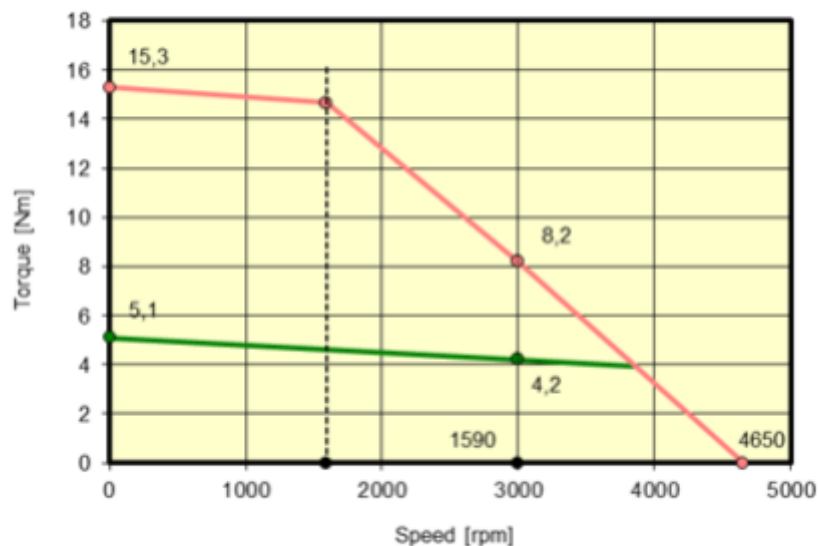
Motor type	N4-0510-30-560
Winding number	01-00709

Rated Speed	n_n	3000 min^{-1}
DC Bus Voltage	U_{dc}	560 V
Nominal AC Voltage	U_n	380 V
Rated Motor Voltage	U_m	276 V
Rated Torque	M_n	4,2 Nm
Rated AC Current	I_n	3,9 A
Stall Torque	M_o	5,1 Nm
Stall AC Current	I_o	3,8 A
Peak Torque	M_{max}	15,3 Nm
Peak Current	I_{max}	17,4 A
Max. Speed	n_{max}	9000 min^{-1}
EMF Constant	K_E	81,0 V/1000
Torque Constant	K_T	1,34 Nm/A
Terminal Resistance	R_{2ph}	4,0 Ω
Terminal Inductance	L_{2ph}	21,7 mH
Number of poles	2p	10

No Load Speed	n_o	4650 min^{-1}
Torque at I_{max}/U_n	M_z	14,7 Nm
Speed at I_{max}/U_n	n_z	1590 min^{-1}
Max. Torque at n_n	M_x	8,2 Nm

El. Time Constant	T_{el}	5,5 ms
Mech. Time Constant	T_{mech}	0,78 ms
Thermal Time Constant	T_{th}	25 min
Rotor Inertia	J	2,04 kgcm^2

Torque/speed curves



RATED DATA

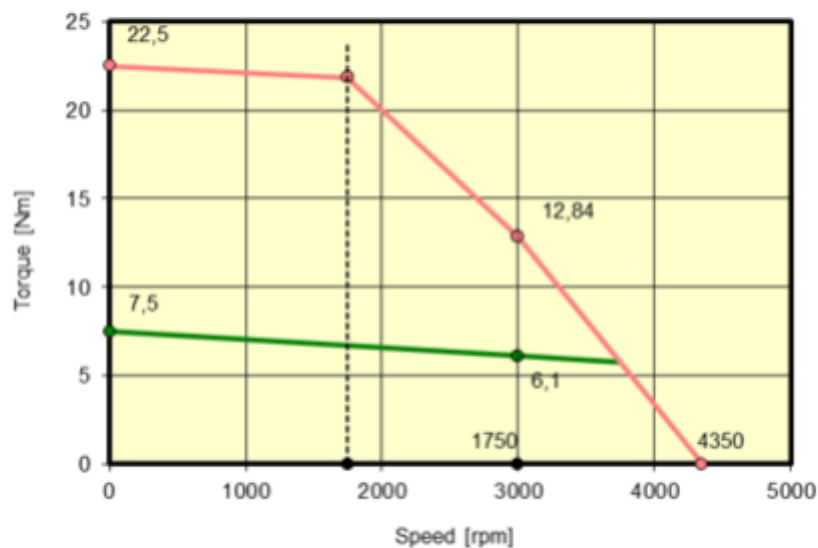
Motor type	N4-0750-30-560
Winding number	01-00711

Rated Speed	n_n	3000 min^{-1}
DC Bus Voltage	U_{dc}	560 V
Nominal AC Voltage	U_n	380 V
Rated Motor Voltage	U_m	277 V
Rated Torque	M_n	6,1 Nm
Rated AC Current	I_n	5,1 A
Stall Torque	M_o	7,5 Nm
Stall AC Current	I_o	5,2 A
Peak Torque	M_{max}	23 Nm
Peak Current	I_{max}	24 A
Max. Speed	n_{max}	9000 min^{-1}
EMF Constant	K_E	87,0 V/1000
Torque Constant	K_T	1,44 Nm/A
Terminal Resistance	R_{2ph}	2,3 Ω
Terminal Inductance	L_{2ph}	13,5 mH
Number of poles	$2p$	10

No Load Speed	n_o	4350 min^{-1}
Torque at I_{max}/U_n	M_z	22 Nm
Speed at I_{max}/U_n	n_z	1750 min^{-1}
Max. Torque at n_n	M_x	12,8 Nm

El. Time Constant	T_{el}	5,9 ms
Mech. Time Constant	T_{mech}	0,62 ms
Thermal Time Constant	T_{th}	30 min
Rotor Inertia	J	3,26 kgcm^2

Torque/speed curves



RATED DATA

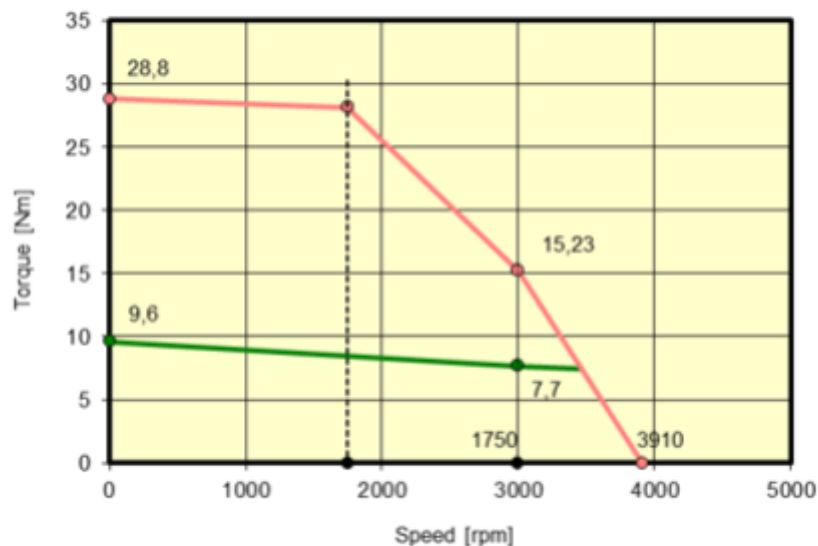
Motor type	N4-0960-30-560
Winding number	01-00713

Rated Speed	n_n	3000 min^{-1}
DC Bus Voltage	U_{dc}	560 V
Nominal AC Voltage	U_n	380 V
Rated Motor Voltage	U_m	289 V
Rated Torque	M_n	7,7 Nm
Rated AC Current	I_n	6,0 A
Stall Torque	M_o	9,6 Nm
Stall AC Current	I_o	6,0 A
Peak Torque	M_{max}	29 Nm
Peak Current	I_{max}	27 A
Max. Speed	n_{max}	9000 min^{-1}
EMF Constant	K_E	97,0 V/1000
Torque Constant	K_T	1,60 Nm/A
Terminal Resistance	R_{2ph}	2,0 Ω
Terminal Inductance	L_{2ph}	11,9 mH
Number of poles	$2p$	10

No Load Speed	n_o	3910 min^{-1}
Torque at I_{max}/U_n	M_z	28 Nm
Speed at I_{max}/U_n	n_z	1750 min^{-1}
Max. Torque at n_n	M_x	15,2 Nm

El. Time Constant	T_{el}	6,0 ms
Mech. Time Constant	T_{mech}	0,60 ms
Thermal Time Constant	T_{th}	35 min
Rotor Inertia	J	4,49 kgcm^2

Torque/speed curves



RATED DATA

Motor type	N4-1130-30-560
Winding number	01-00816

Rated Speed	n_n	3000 min^{-1}
DC Bus Voltage	U_{dc}	560 V
Nominal AC Voltage	U_n	380 V
Rated Motor Voltage	U_m	266 V
Rated Torque	M_n	8,8 Nm
Rated AC Current	I_n	7,4 A
Stall Torque	M_o	11,3 Nm
Stall AC Current	I_o	7,5 A
Peak Torque	M_{max}	34 Nm
Peak Current	I_{max}	28 A
Max. Speed	n_{max}	9000 min^{-1}
EMF Constant	K_E	91,0 V/1000
Torque Constant	K_T	1,51 Nm/A
Terminal Resistance	R_{2ph}	1,42 Ω
Terminal Inductance	L_{2ph}	8,9 mH
Number of poles	$2p$	10

No Load Speed	n_o	4170 min^{-1}
Torque at I_{max}/U_n	M_z	33 Nm
Speed at I_{max}/U_n	n_z	2200 min^{-1}
Max. Torque at n_n	M_x	23 Nm

El. Time Constant	T_{el}	6,3 ms
Mech. Time Constant	T_{mech}	0,62 ms
Thermal Time Constant	T_{th}	40 min
Rotor Inertia	J	5,70 kgcm^2

Torque/speed curves

