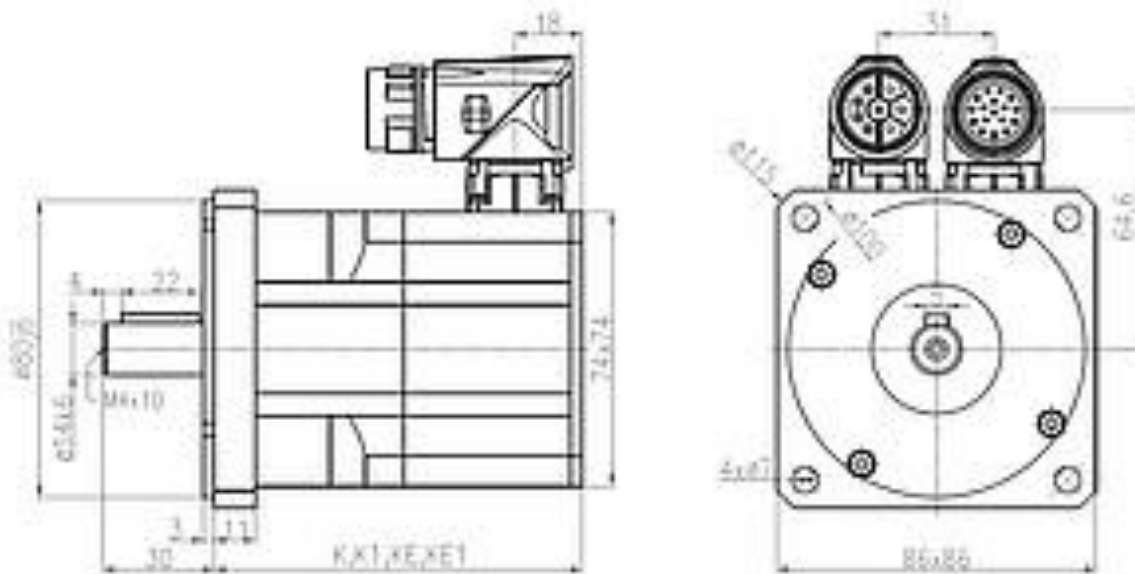


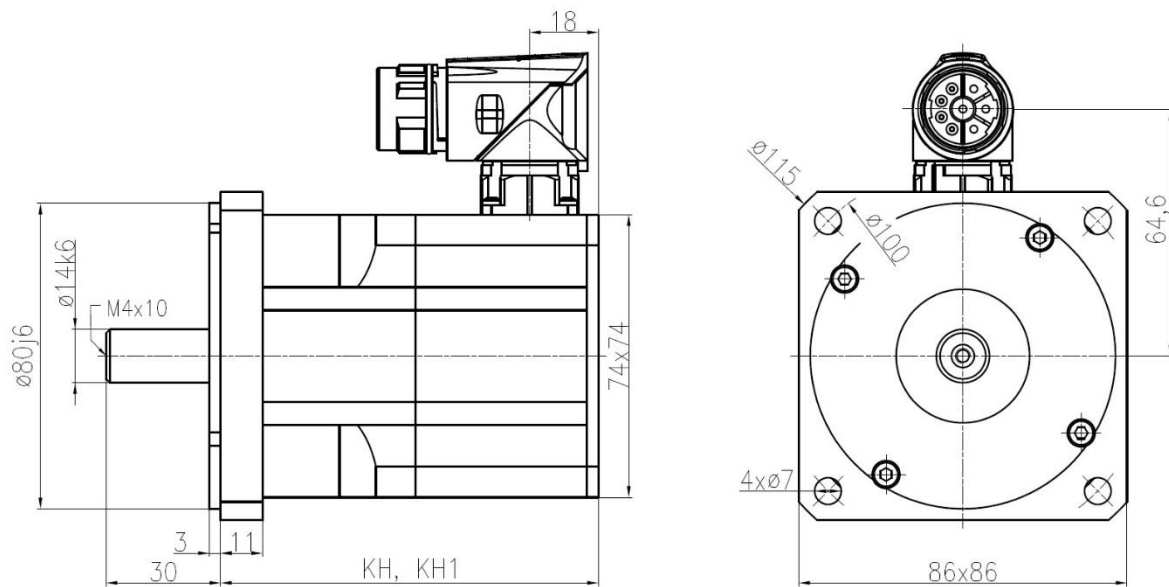
Dimensionen



Art	K (Resolver)	K1 (Resolver+Bremse)	KE (EnDAT)	KE1 (EnDAT+Bremse)
TGN3-0115	82 Millimeter	120 Millimeter	123 Millimeter	161 Millimeter
TGN3-0205	100 Millimeter	138 Millimeter	141 Millimeter	197 Millimeter
TGN3-0350	136 Millimeter	174 Millimeter	177 Millimeter	215 Millimeter
TGN3-0480	172 Millimeter	210 Millimeter	213 Millimeter	251 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.

Servomotors with one integrated connector



Art	KH (DSL)	KH1 (DSL+Bremse)
TGN3-0115	99 Millimeter	144 Millimeter
TGN3-0205	117 Millimeter	162 Millimeter
TGN3-0350	153 Millimeter	198 Millimeter
TGN3-0480	189 Millimeter	234 Millimeter

RATED DATA

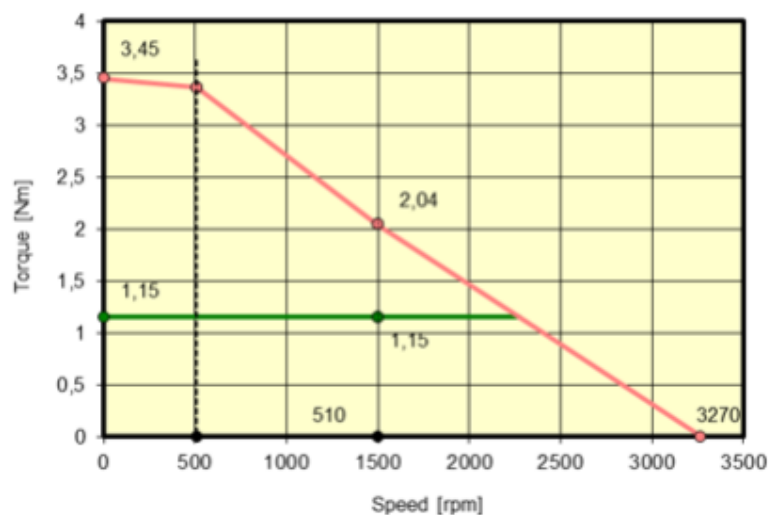
Motor type	N3-0115-15-36
Winding number	01-00778

Rated Speed	n_n	1500 min^{-1}
DC Bus Voltage	U_{dc}	36,0 V
Nominal AC Voltage	U_n	23,0 V
Rated Motor Voltage	U_m	16,0 V
Rated Torque	M_n	1,15 Nm
Rated AC Current	I_n	11,3 A
Stall Torque	M_o	1,15 Nm
Stall AC Current	I_o	10,0 A
Peak Torque	M_{max}	3,5 Nm
Peak Current	I_{max}	44 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}	0,34 Ω
Terminal Inductance	L_{2ph}	0,75 mH
Number of poles	$2p$	10

No Load Speed	n_o	3270 min^{-1}
Torque at I_{max}/U_n	M_z	3,4 Nm
Speed at I_{max}/U_n	n_z	510 min^{-1}
Max. Torque at n_n	M_x	2,0 Nm

El. Time Constant	T_{el}	2,2 ms
Mech. Time Constant	T_{mech}	1,4 ms
Thermal Time Constant	T_{th}	21 min
Rotor Inertia	J	0,31 kgcm^2

Torque/speed curves



RATED DATA

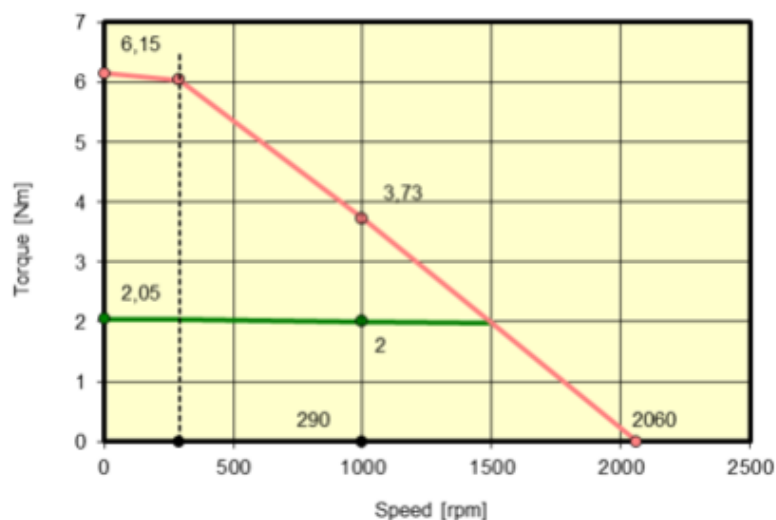
Motor type	N3-0205-10-36
Winding number	01-00783

Rated Speed	n_n	1000 min^{-1}
DC Bus Voltage	U_{dc}	36,0 V
Nominal AC Voltage	U_n	25,0 V
Rated Motor Voltage	U_m	18,0 V
Rated Torque	M_n	2,0 Nm
Rated AC Current	I_n	11,0 A
Stall Torque	M_o	2,1 Nm
Stall AC Current	I_o	10,3 A
Peak Torque	M_{max}	6,2 Nm
Peak Current	I_{max}	42 A
Max. Speed	n_{max}	12000 min^{-1}
EMF Constant	K_E	12,0 V/1000
Torque Constant	K_T	0,20 Nm/A
Terminal Resistance	R_{2ph}	0,41 Ω
Terminal Inductance	L_{2ph}	1,00 mH
Number of poles	$2p$	10

No Load Speed	n_o	2060 min^{-1}
Torque at I_{max}/U_n	M_z	6,0 Nm
Speed at I_{max}/U_n	n_z	290 min^{-1}
Max. Torque at n_n	M_x	3,7 Nm

El. Time Constant	T_{el}	2,4 ms
Mech. Time Constant	T_{mech}	0,99 ms
Thermal Time Constant	T_{th}	23 min
Rotor Inertia	J	0,55 kgcm^2

Torque/speed curves



RATED DATA

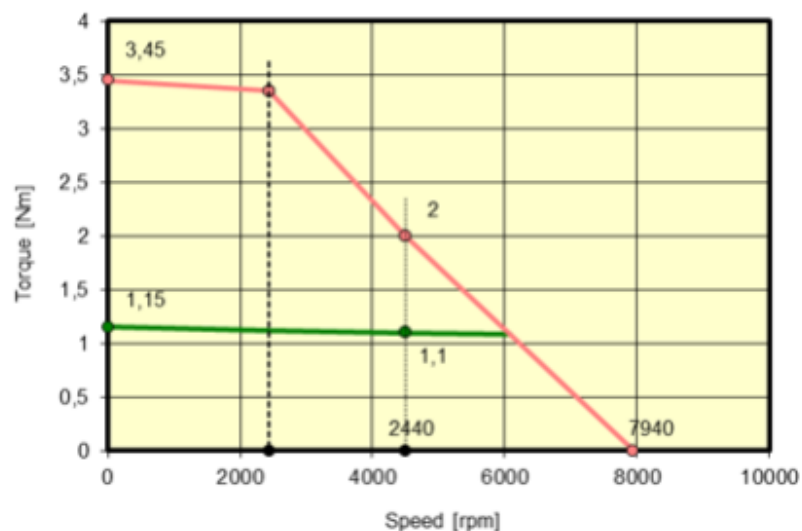
Motor type	N3-0115-45-320
Winding number	01-00960

Rated Speed	n_n	4500 min^{-1}
DC Bus Voltage	U_{dc}	320 V
Nominal AC Voltage	U_n	220 V
Rated Motor Voltage	U_m	154 V
Rated Torque	M_n	1,10 Nm
Rated AC Current	I_n	2,9 A
Stall Torque	M_o	1,15 Nm
Stall AC Current	I_o	2,5 A
Peak Torque	M_{max}	3,5 Nm
Peak Current	I_{max}	11,1 A
Max. Speed	n_{max}	12000 min^{-1}
EMF Constant	K_E	27,5 V/1000
Torque Constant	K_T	0,45 Nm/A
Terminal Resistance	R_{2ph}	5,4 Ω
Terminal Inductance	L_{2ph}	12,0 mH
Number of poles	$2p$	10

No Load Speed	n_o	7940 min^{-1}
Torque at I_{max}/U_n	M_z	3,4 Nm
Speed at I_{max}/U_n	n_z	2440 min^{-1}
Max. Torque at n_n	M_x	2,0 Nm

El. Time Constant	T_{el}	2,2 ms
Mech. Time Constant	T_{mech}	1,4 ms
Thermal Time Constant	T_{th}	21 min
Rotor Inertia	J	0,31 kgcm^2

Torque/speed curves



RATED DATA

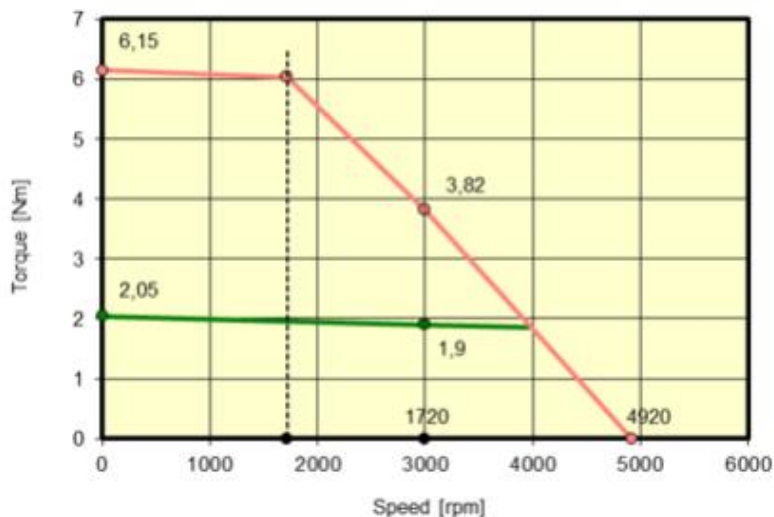
Motor type	N3-0205-30-320
Winding number	01-00704

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	153 V
Rated Torque	M_n	1,90 Nm
Rated AC Current	I_n	3,1 A
Stall Torque	M_o	2,1 Nm
Stall AC Current	I_o	2,8 A
Peak Torque	M_{max}	6,2 Nm
Peak Current	I_{max}	12,7 A
Max. Speed	n_{max}	12000 min^{-1}
EMF Constant	K_E	44,5 V/1000
Torque Constant	K_T	0,74 Nm/A
Terminal Resistance	R_{2ph}	5,4 Ω
Terminal Inductance	L_{2ph}	13,3 mH
Number of poles	$2p$	10

No Load Speed	n_o	4920 min^{-1}
Torque at I_{max}/U_n	M_z	6,0 Nm
Speed at I_{max}/U_n	n_z	1720 min^{-1}
Max. Torque at n_n	M_x	3,8 Nm

El. Time Constant	T_{el}	2,5 ms
Mech. Time Constant	T_{mech}	0,95 ms
Thermal Time Constant	T_{th}	23 min
Rotor Inertia	J	0,55 kgcm^2

Torque/speed curves



RATED DATA

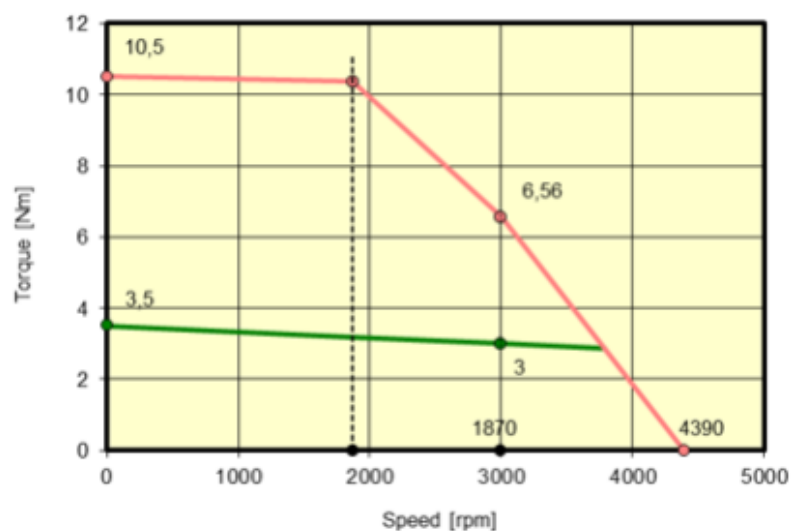
Motor type	N3-0350-30-320
Winding number	01-00706

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	156 V
Rated Torque	M_n	3,0 Nm
Rated AC Current	I_n	4,3 A
Stall Torque	M_o	3,5 Nm
Stall AC Current	I_o	4,2 A
Peak Torque	M_{max}	10,5 Nm
Peak Current	I_{max}	19,4 A
Max. Speed	n_{max}	12000 min^{-1}
EMF Constant	K_E	50,0 V/1000
Torque Constant	K_T	0,83 Nm/A
Terminal Resistance	R_{2ph}	2,8 Ω
Terminal Inductance	L_{2ph}	8,1 mH
Number of poles	$2p$	10

No Load Speed	n_o	4390 min^{-1}
Torque at I_{max}/U_n	M_z	10,4 Nm
Speed at I_{max}/U_n	n_z	1870 min^{-1}
Max. Torque at n_n	M_x	6,6 Nm

El. Time Constant	T_{el}	2,9 ms
Mech. Time Constant	T_{mech}	0,74 ms
Thermal Time Constant	T_{th}	27 min
Rotor Inertia	J	1,04 kgcm^2

Torque/speed curves



RATED DATA

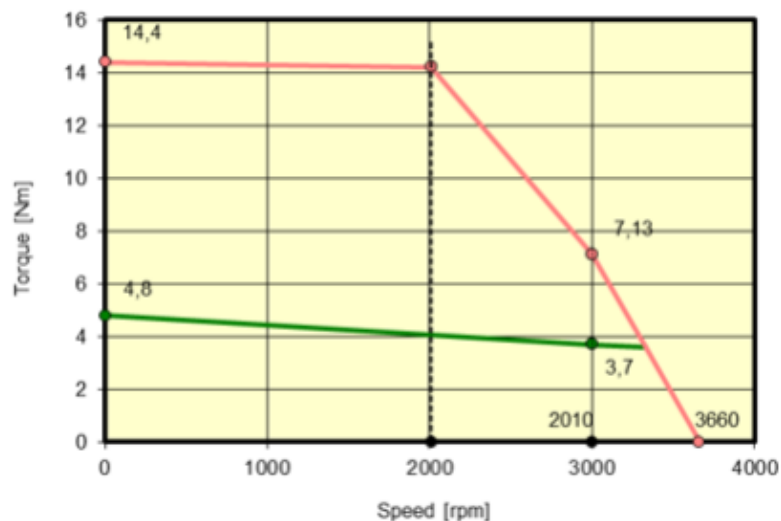
Motor type	N3-0480-30-320
Winding number	01-00807

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	180 V
Rated Torque	M_n	3,7 Nm
Rated AC Current	I_n	4,5 A
Stall Torque	M_o	4,8 Nm
Stall AC Current	I_o	4,8 A
Peak Torque	M_{max}	14,4 Nm
Peak Current	I_{max}	17,3 A
Max. Speed	n_{max}	12000 min^{-1}
EMF Constant	K_E	60,0 V/1000
Torque Constant	K_T	0,99 Nm/A
Terminal Resistance	R_{2ph}	2,5 Ω
Terminal Inductance	L_{2ph}	7,5 mH
Number of poles	$2p$	10

No Load Speed	n_o	3660 min^{-1}
Torque at I_{max}/U_n	M_z	14,2 Nm
Speed at I_{max}/U_n	n_z	2010 min^{-1}
Max. Torque at n_n	M_x	7,1 Nm

El. Time Constant	T_{el}	3,0 ms
Mech. Time Constant	T_{mech}	0,67 ms
Thermal Time Constant	T_{th}	30 min
Rotor Inertia	J	1,52 kgcm^2

Torque/speed curves



RATED DATA

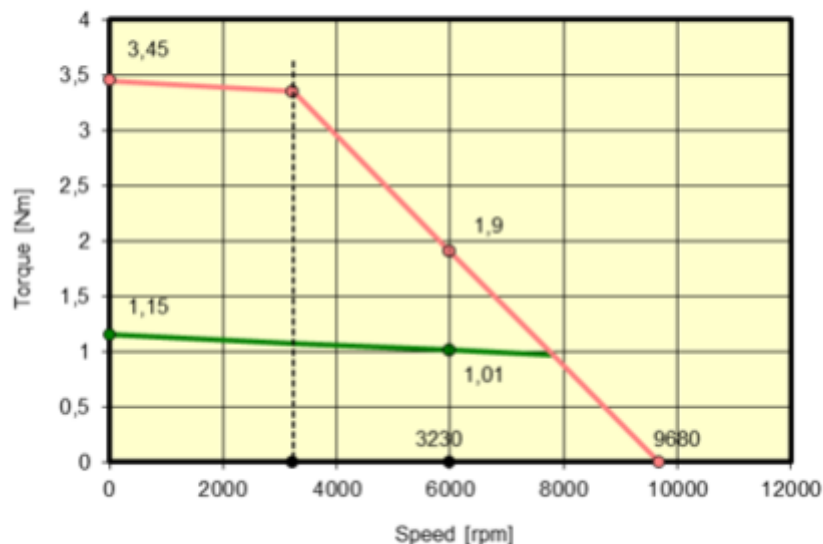
Motor type	N3-0115-60-560
Winding number	01-00719

Rated Speed	n_n	6000 min^{-1}
DC Bus Voltage	U_{dc}	560 V
Nominal AC Voltage	U_n	380 V
Rated Motor Voltage	U_m	269 V
Rated Torque	M_n	1,01 Nm
Rated AC Current	I_n	1,99 A
Stall Torque	M_o	1,15 Nm
Stall AC Current	I_o	1,78 A
Peak Torque	M_{max}	3,5 Nm
Peak Current	I_{max}	7,8 A
Max. Speed	n_{max}	12000 min^{-1}
EMF Constant	K_E	39,0 V/1000
Torque Constant	K_T	0,65 Nm/A
Terminal Resistance	R_{2ph}	10,7 Ω
Terminal Inductance	L_{2ph}	23,0 mH
Number of poles	$2p$	10

No Load Speed	n_o	9680 min^{-1}
Torque at I_{max}/U_n	M_z	3,4 Nm
Speed at I_{max}/U_n	n_z	3230 min^{-1}
Max. Torque at n_n	M_x	1,9 Nm

El. Time Constant	T_{el}	2,1 ms
Mech. Time Constant	T_{mech}	1,4 ms
Thermal Time Constant	T_{th}	21 min
Rotor Inertia	J	0,31 kgcm^2

Torque/speed curves



RATED DATA

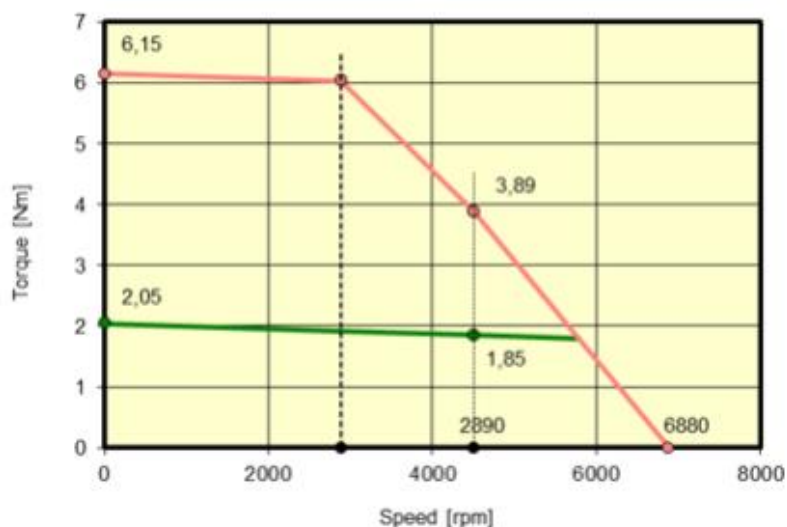
Motor type	N3-0205-45-560
Winding number	01-00726

Rated Speed	n_n	4500 min^{-1}
DC Bus Voltage	U_{dc}	560 V
Nominal AC Voltage	U_n	380 V
Rated Motor Voltage	U_m	265 V
Rated Torque	M_n	1,85 Nm
Rated AC Current	I_n	2,6 A
Stall Torque	M_o	2,1 Nm
Stall AC Current	I_o	2,3 A
Peak Torque	M_{max}	6,2 Nm
Peak Current	I_{max}	9,1 A
Max. Speed	n_{max}	12000 min^{-1}
EMF Constant	K_E	55,0 V/1000
Torque Constant	K_T	0,91 Nm/A
Terminal Resistance	R_{2ph}	8,4 Ω
Terminal Inductance	L_{2ph}	20,6 mH
Number of poles	$2p$	10

No Load Speed	n_o	6880 min^{-1}
Torque at I_{max}/U_n	M_z	6,0 Nm
Speed at I_{max}/U_n	n_z	2890 min^{-1}
Max. Torque at n_n	M_x	3,9 Nm

El. Time Constant	T_{el}	2,5 ms
Mech. Time Constant	T_{mech}	0,97 ms
Thermal Time Constant	T_{th}	23 min
Rotor Inertia	J	0,55 kgcm^2

Torque/speed curves



RATED DATA

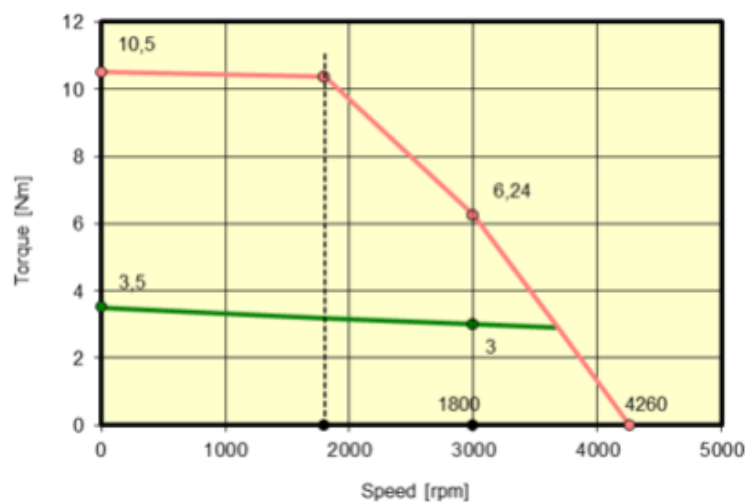
Motor type	N3-0350-30-560
Winding number	01-00707

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	278 V
Rated Torque	M_n	3,0 Nm
Rated AC Current	I_n	2,4 A
Stall Torque	M_o	3,5 Nm
Stall AC Current	I_o	2,4 A
Peak Torque	M_{max}	10,5 Nm
Peak Current	I_{max}	10,9 A
Max. Speed	n_{max}	12000 min^{-1}
EMF Constant	K_E	89,0 V/1000
Torque Constant	K_T	1,47 Nm/A
Terminal Resistance	R_{2ph}	8,9 Ω
Terminal Inductance	L_{2ph}	25,5 mH
Number of poles	$2p$	10

No Load Speed	n_o	4260 min^{-1}
Torque at I_{max}/U_n	M_z	10,4 Nm
Speed at I_{max}/U_n	n_z	1800 min^{-1}
Max. Torque at n_n	M_x	6,2 Nm

El. Time Constant	T_{el}	2,9 ms
Mech. Time Constant	T_{mech}	0,74 ms
Thermal Time Constant	T_{th}	27 min
Rotor Inertia	J	1,04 kgcm^2

Torque/speed curves



RATED DATA

Motor type	N3-0480-30-560
Winding number	01-00954

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	310 V
Rated Torque	M_n	3,7 Nm
Rated AC Current	I_n	2,6 A
Stall Torque	M_o	4,8 Nm
Stall AC Current	I_o	2,8 A
Peak Torque	M_{max}	14,4 Nm
Peak Current	I_{max}	10,1 A
Max. Speed	n_{max}	12000 min^{-1}
EMF Constant	K_E	103,0 V/1000
Torque Constant	K_T	1,70 Nm/A
Terminal Resistance	R_{2ph}	7,5 Ω
Terminal Inductance	L_{2ph}	22,7 mH
Number of poles	$2p$	10

No Load Speed	n_o	3680 min^{-1}
Torque at I_{max}/U_n	M_z	14,2 Nm
Speed at I_{max}/U_n	n_z	1990 min^{-1}
Max. Torque at n_n	M_x	7,1 Nm

El. Time Constant	T_{el}	3,0 ms
Mech. Time Constant	T_{mech}	0,68 ms
Thermal Time Constant	T_{th}	30 min
Rotor Inertia	J	1,52 kgcm^2

Torque/speed curves

