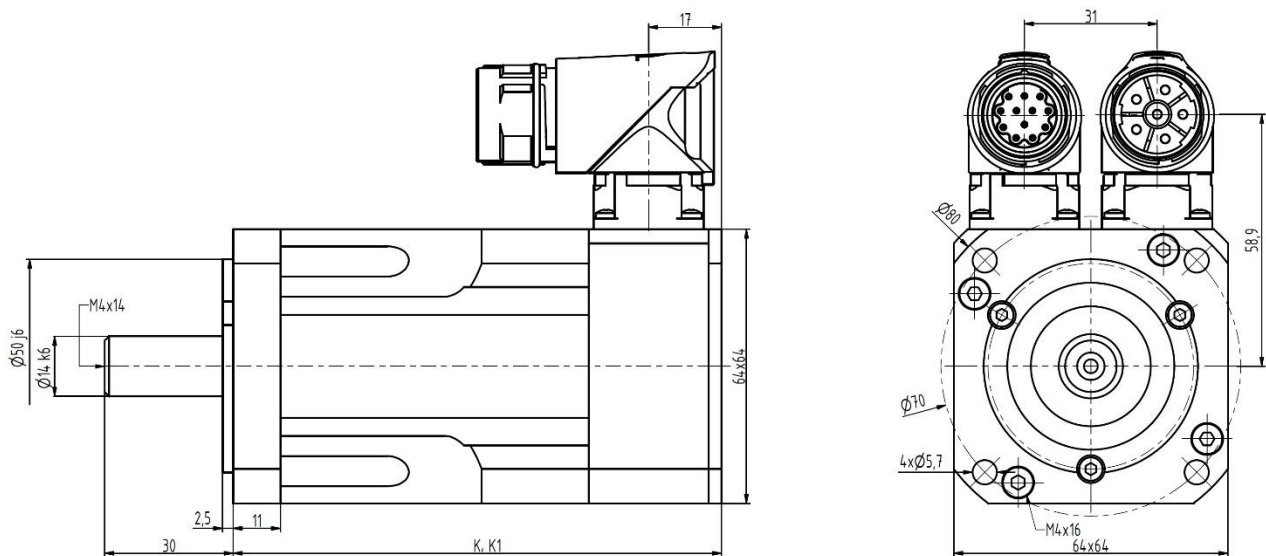


Dimensionen



Art	K (Resolver)	K1 (Resolver+Bremse)
TGMA-0075	96 Millimeter	138 Millimeter
TGMA-0130	114 Millimeter	156 Millimeter
TGMA-0175	132 Millimeter	174 Millimeter
TGMA-0220	150 Millimeter	192 Millimeter
TGMA-0300	186 Millimeter	228 Millimeter

RATED DATA

Motor type

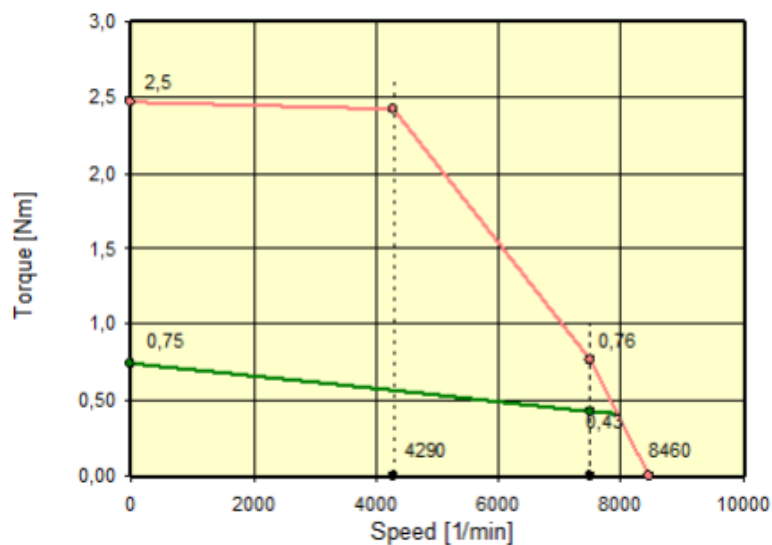
TGN2,5	0075	75	320
---------------	-------------	-----------	------------

Rated Speed	n_n	7500 min^{-1}
DC Bus Voltage	U_{dc}	320 V
Nominal AC Voltage	U_n	200 V
Rated Motor Voltage	U_m	160 V
Rated Torque	M_n	0,43 Nm
Rated AC Current	I_n	1,53 A
Stall Torque	M_o	0,75 Nm
Stall AC Current	I_o	1,93 A
Peak Torque	M_{max}	2,5 Nm
Peak Current	I_{max}	7,9 A
Max. Speed	n_{max}	12000 min^{-1}
EMF Constant	K_E	23,5 V/1000
Torque Constant	K_T	0,39 Nm/A
Terminal Resistance	R_{2ph}	6,1 Ω
Terminal Inductance	L_{2ph}	6,9 mH
Number of poles	$2p$	10

No Load Speed	n_o	8460 min^{-1}
Torque at I_{max}/U_n	M_z	2,4 Nm
Speed at I_{max}/U_n	n_z	4290 min^{-1}
Max. Torque at n_n	M_x	0,76 Nm

El. Time Constant	T_{el}	1,1 ms
Mech. Time Constant	T_{mech}	2,3 ms
Thermal Time Constant	T_{th}	20 min
Rotor Inertia	J	0,33 kgcm^2

Torque/speed curves



RATED DATA

Motor type

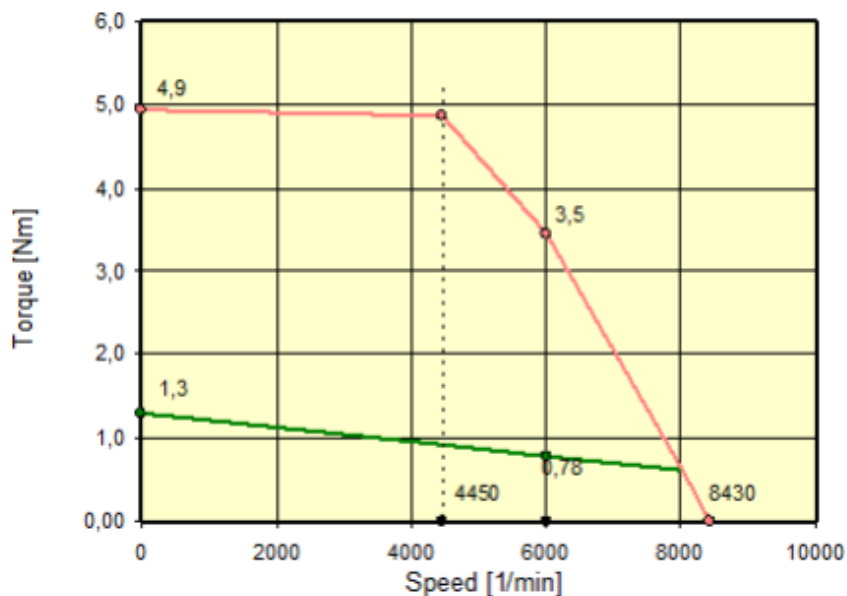
TGN2,5	0130	60	320
---------------	-------------	-----------	------------

Rated Speed	n_n	6000 min^{-1}
DC Bus Voltage	U_{dc}	320 V
Nominal AC Voltage	U_n	220 V
Rated Motor Voltage	U_m	165 V
Rated Torque	M_n	0,78 Nm
Rated AC Current	I_n	2,0 A
Stall Torque	M_o	1,30 Nm
Stall AC Current	I_o	3,0 A
Peak Torque	M_{max}	4,9 Nm
Peak Current	I_{max}	14,3 A
Max. Speed	n_{max}	12000 min^{-1}
EMF Constant	K_E	26,0 V/1000
Torque Constant	K_T	0,43 Nm/A
Terminal Resistance	R_{2ph}	3,0 Ω
Terminal Inductance	L_{2ph}	4,3 mH
Number of poles	$2p$	10

No Load Speed	n_o	8430 min^{-1}
Torque at I_{max}/U_n	M_z	4,9 Nm
Speed at I_{max}/U_n	n_z	4450 min^{-1}
Max. Torque at n_n	M_x	3,5 Nm

El. Time Constant	T_{el}	1,4 ms
Mech. Time Constant	T_{mech}	1,4 ms
Thermal Time Constant	T_{th}	24 min
Rotor Inertia	J	0,50 kgcm^2

Torque/speed curves



RATED DATA

Motor type

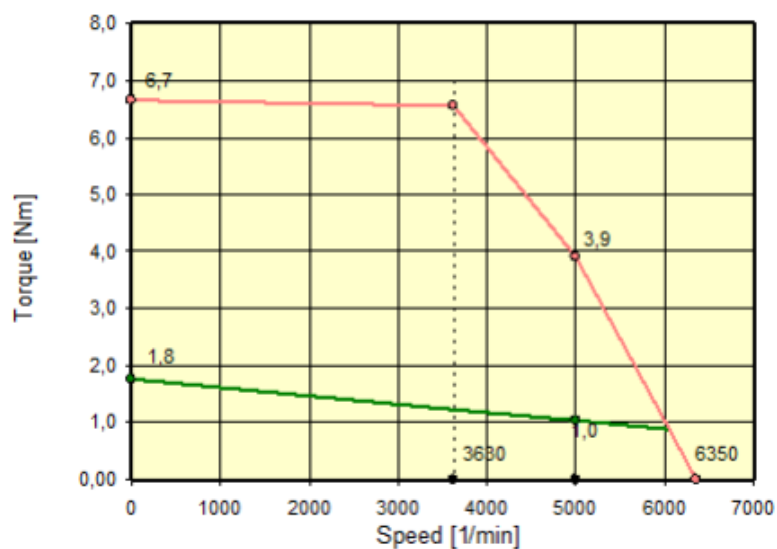
TGN2,5	0175	50	320
---------------	-------------	-----------	------------

Rated Speed	n_n	5000 min^{-1}
DC Bus Voltage	U_{dc}	320 V
Nominal AC Voltage	U_n	220 V
Rated Motor Voltage	U_m	182 V
Rated Torque	M_n	1,03 Nm
Rated AC Current	I_n	2,0 A
Stall Torque	M_o	1,75 Nm
Stall AC Current	I_o	3,1 A
Peak Torque	M_{max}	6,7 Nm
Peak Current	I_{max}	13,6 A
Max. Speed	n_{max}	12000 min^{-1}
EMF Constant	K_E	34,5 V/1000
Torque Constant	K_T	0,57 Nm/A
Terminal Resistance	R_{2ph}	3,2 Ω
Terminal Inductance	L_{2ph}	5,0 mH
Number of poles	$2p$	10

No Load Speed	n_o	6350 min^{-1}
Torque at I_{max}/U_n	M_z	6,5 Nm
Speed at I_{max}/U_n	n_z	3630 min^{-1}
Max. Torque at n_n	M_x	3,9 Nm

El. Time Constant	T_{el}	1,6 ms
Mech. Time Constant	T_{mech}	1,2 ms
Thermal Time Constant	T_{th}	28 min
Rotor Inertia	J	0,68 kgcm^2

Torque/speed curves



RATED DATA

Motor type

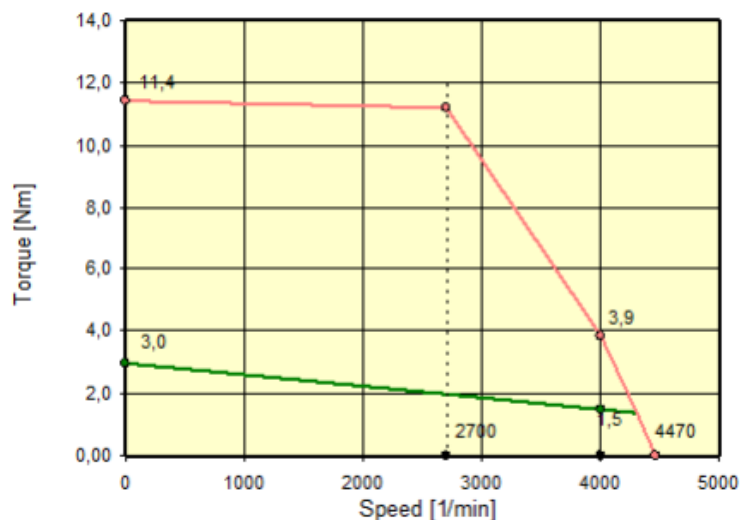
TGN2,5	0300	40	320
---------------	-------------	-----------	------------

Rated Speed	n_n	4000 min^{-1}
DC Bus Voltage	U_{dc}	320 V
Nominal AC Voltage	U_n	220 V
Rated Motor Voltage	U_m	204 V
Rated Torque	M_n	1,49 Nm
Rated AC Current	I_n	2,1 A
Stall Torque	M_o	3,0 Nm
Stall AC Current	I_o	3,7 A
Peak Torque	M_{max}	11,4 Nm
Peak Current	I_{max}	15,9 A
Max. Speed	n_{max}	12000 min^{-1}
EMF Constant	K_E	49,0 V/1000
Torque Constant	K_T	0,81 Nm/A
Terminal Resistance	R_{2ph}	2,9 Ω
Terminal Inductance	L_{2ph}	5,1 mH
Number of poles	$2p$	10

No Load Speed	n_o	4470 min^{-1}
Torque at I_{max}/U_n	M_z	11,2 Nm
Speed at I_{max}/U_n	n_z	2700 min^{-1}
Max. Torque at n_n	M_x	3,9 Nm

El. Time Constant	T_{el}	1,7 ms
Mech. Time Constant	T_{mech}	0,92 ms
Thermal Time Constant	T_{th}	40 min
Rotor Inertia	J	1,2 kgcm^2

Torque/speed curves



RATED DATA

Motor type

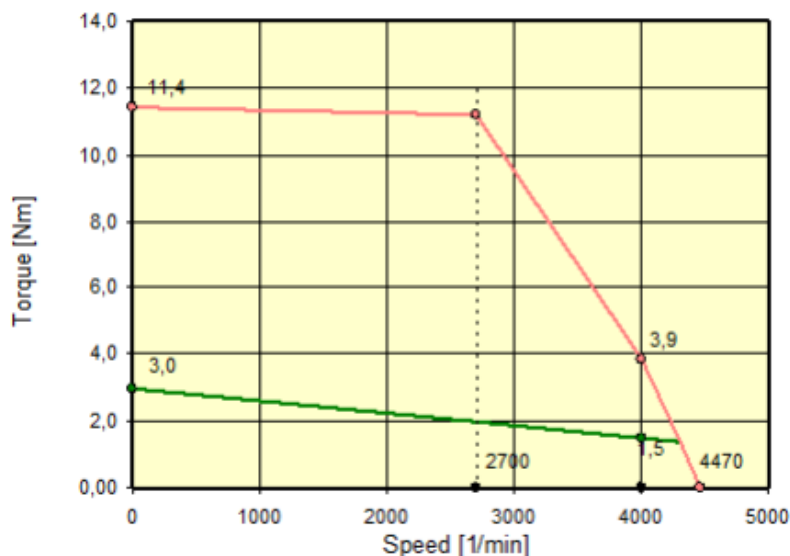
TGN2,5	0300	40	320
---------------	-------------	-----------	------------

Rated Speed	n_n	4000 min^{-1}
DC Bus Voltage	U_{dc}	320 V
Nominal AC Voltage	U_n	220 V
Rated Motor Voltage	U_m	204 V
Rated Torque	M_n	1,49 Nm
Rated AC Current	I_n	2,1 A
Stall Torque	M_o	3,0 Nm
Stall AC Current	I_o	3,7 A
Peak Torque	M_{max}	11,4 Nm
Peak Current	I_{max}	15,9 A
Max. Speed	n_{max}	12000 min^{-1}
EMF Constant	K_E	49,0 V/1000
Torque Constant	K_T	0,81 Nm/A
Terminal Resistance	R_{2ph}	2,9 Ω
Terminal Inductance	L_{2ph}	5,1 mH
Number of poles	$2p$	10

No Load Speed	n_o	4470 min^{-1}
Torque at I_{max}/U_n	M_z	11,2 Nm
Speed at I_{max}/U_n	n_z	2700 min^{-1}
Max. Torque at n_n	M_x	3,9 Nm

El. Time Constant	T_{el}	1,7 ms
Mech. Time Constant	T_{mech}	0,92 ms
Thermal Time Constant	T_{th}	40 min
Rotor Inertia	J	1,2 kgcm^2

Torque/speed curves



RATED DATA

Motor type

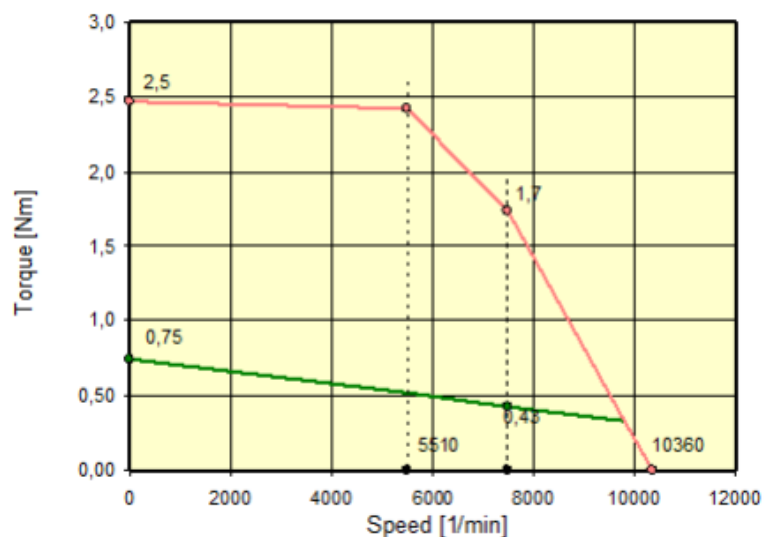
TGN2,5	0075	75	560
---------------	-------------	-----------	------------

Rated Speed	n_n	7500 min^{-1}
DC Bus Voltage	U_{dc}	560 V
Nominal AC Voltage	U_n	380 V
Rated Motor Voltage	U_m	293 V
Rated Torque	M_n	0,43 Nm
Rated AC Current	I_n	0,80 A
Stall Torque	M_o	0,75 Nm
Stall AC Current	I_o	1,24 A
Peak Torque	M_{max}	2,5 Nm
Peak Current	I_{max}	5,1 A
Max. Speed	n_{max}	12000 min^{-1}
EMF Constant	K_E	36,5 V/1000
Torque Constant	K_T	0,60 Nm/A
Terminal Resistance	R_{2ph}	15,0 Ω
Terminal Inductance	L_{2ph}	16,7 mH
Number of poles	$2p$	10

No Load Speed	n_o	10360 min^{-1}
Torque at I_{max}/U_n	M_z	2,4 Nm
Speed at I_{max}/U_n	n_z	5510 min^{-1}
Max. Torque at n_n	M_x	1,7 Nm

El. Time Constant	T_{el}	1,1 ms
Mech. Time Constant	T_{mech}	2,3 ms
Thermal Time Constant	T_{th}	20 min
Rotor Inertia	J	0,33 kgcm^2

Torque/speed curves



RATED DATA

Motor type

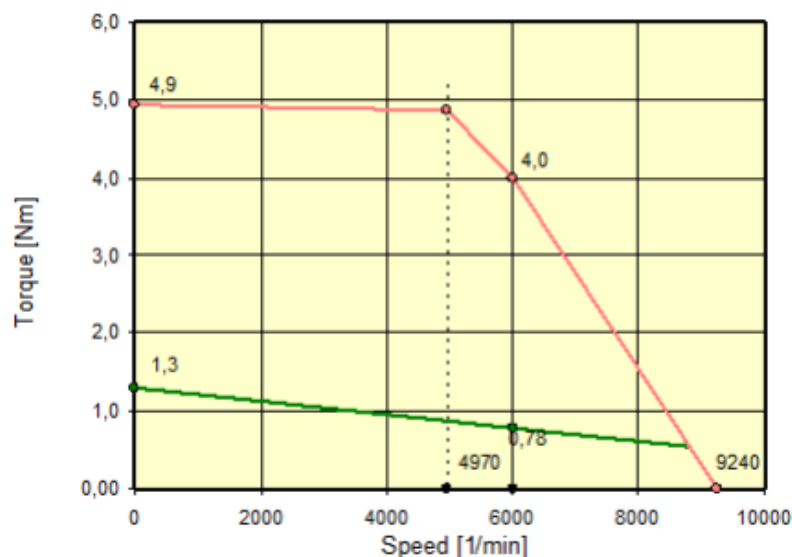
TGN2,5	0130	60	560
---------------	-------------	-----------	------------

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	261 V
Rated Torque	M_n	0,78 Nm
Rated AC Current	I_n	1,27 A
Stall Torque	M_o	1,30 Nm
Stall AC Current	I_o	1,92 A
Peak Torque	M_{max}	4,9 Nm
Peak Current	I_{max}	9,1 A
Max. Speed	n_{max}	12000 min^{-1}
EMF Constant	K_E	41,0 V/1000
Torque Constant	K_T	0,68 Nm/A
Terminal Resistance	R_{2ph}	7,5 Ω
Terminal Inductance	L_{2ph}	10,7 mH
Number of poles	$2p$	10

No Load Speed	n_o	9240 min^{-1}
Torque at I_{max}/U_n	M_z	4,9 Nm
Speed at I_{max}/U_n	n_z	4970 min^{-1}
Max. Torque at n_n	M_x	4,0 Nm

El. Time Constant	T_{el}	1,4 ms
Mech. Time Constant	T_{mech}	1,4 ms
Thermal Time Constant	T_{th}	24 min
Rotor Inertia	J	0,50 kgcm^2

Torque/speed curves



RATED DATA

Motor type

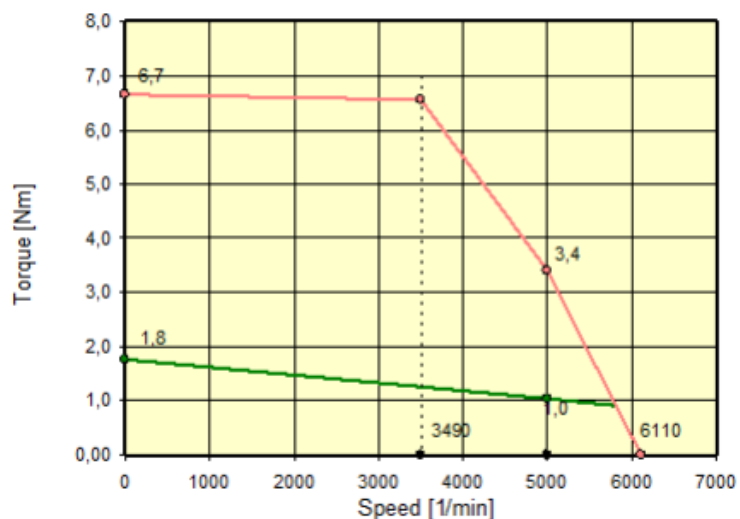
TGN2,5	0175	50	560
---------------	-------------	-----------	------------

Rated Speed	n_n	5000 min^{-1}
DC Bus Voltage	U_{dc}	560 V
Nominal AC Voltage	U_n	380 V
Rated Motor Voltage	U_m	327 V
Rated Torque	M_n	1,03 Nm
Rated AC Current	I_n	1,11 A
Stall Torque	M_o	1,75 Nm
Stall AC Current	I_o	1,71 A
Peak Torque	M_{max}	6,7 Nm
Peak Current	I_{max}	7,6 A
Max. Speed	n_{max}	12000 min^{-1}
EMF Constant	K_E	62,0 V/1000
Torque Constant	K_T	1,03 Nm/A
Terminal Resistance	R_{2ph}	10,1 Ω
Terminal Inductance	L_{2ph}	16,1 mH
Number of poles	$2p$	10

No Load Speed	n_o	6110 min^{-1}
Torque at I_{max}/U_n	M_z	6,6 Nm
Speed at I_{max}/U_n	n_z	3490 min^{-1}
Max. Torque at n_n	M_x	3,4 Nm

El. Time Constant	T_{el}	1,6 ms
Mech. Time Constant	T_{mech}	1,1 ms
Thermal Time Constant	T_{th}	28 min
Rotor Inertia	J	0,68 kgcm^2

Torque/speed curves



RATED DATA

Motor type

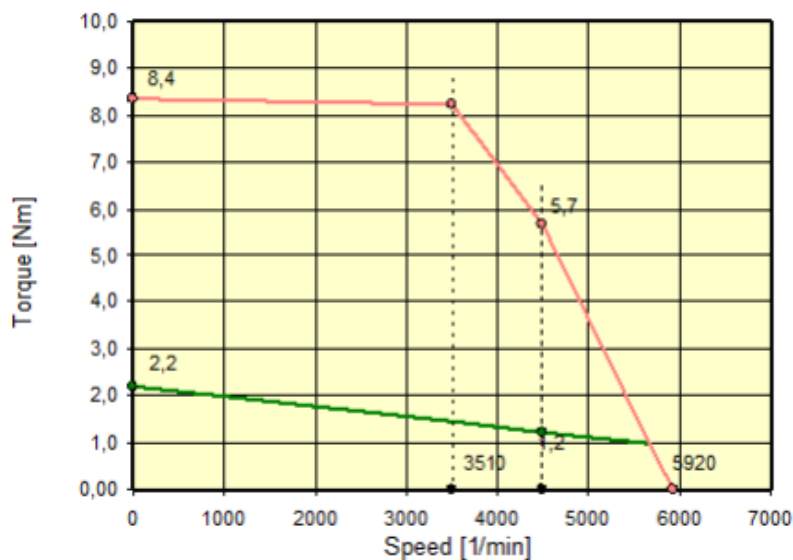
TGN2,5	0220	45	560
---------------	-------------	-----------	------------

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	303 V
Rated Torque	M_n	1,23 Nm
Rated AC Current	I_n	1,29 A
Stall Torque	M_o	2,2 Nm
Stall AC Current	I_o	2,1 A
Peak Torque	M_{max}	8,4 Nm
Peak Current	I_{max}	9,1 A
Max. Speed	n_{max}	12000 min^{-1}
EMF Constant	K_E	64,0 V/1000
Torque Constant	K_T	1,06 Nm/A
Terminal Resistance	R_{2ph}	7,9 Ω
Terminal Inductance	L_{2ph}	13,1 mH
Number of poles	$2p$	10

No Load Speed	n_o	5920 min^{-1}
Torque at I_{max}/U_n	M_z	8,2 Nm
Speed at I_{max}/U_n	n_z	3510 min^{-1}
Max. Torque at n_n	M_x	5,7 Nm

El. Time Constant	T_{el}	1,7 ms
Mech. Time Constant	T_{mech}	1,0 ms
Thermal Time Constant	T_{th}	32 min
Rotor Inertia	J	0,85 kgcm^2

Torque/speed curves



RATED DATA

Motor type

TGN2,5	0300	40	560
---------------	-------------	-----------	------------

Rated Speed	n_n	4000 min^{-1}
DC Bus Voltage	U_{dc}	560 V
Nominal AC Voltage	U_n	380 V
Rated Motor Voltage	U_m	259 V
Rated Torque	M_n	1,49 Nm
Rated AC Current	I_n	1,65 A
Stall Torque	M_o	3,0 Nm
Stall AC Current	I_o	2,9 A
Peak Torque	M_{max}	11,4 Nm
Peak Current	I_{max}	12,6 A
Max. Speed	n_{max}	12000 min^{-1}
EMF Constant	K_E	62,0 V/1000
Torque Constant	K_T	1,03 Nm/A
Terminal Resistance	R_{2ph}	4,6 Ω
Terminal Inductance	L_{2ph}	8,1 mH
Number of poles	$2p$	10

No Load Speed	n_o	6110 min^{-1}
Torque at I_{max}/U_n	M_z	11,2 Nm
Speed at I_{max}/U_n	n_z	3970 min^{-1}
Max. Torque at n_n	M_x	11,1 Nm

El. Time Constant	T_{el}	1,7 ms
Mech. Time Constant	T_{mech}	0,92 ms
Thermal Time Constant	T_{th}	40 min
Rotor Inertia	J	1,2 kgcm^2

Torque/speed curves

