

BRUSHLESS MOTOR
NX110EAP / NK110EKP
 ELECTRONIC DRIVE
DRIVE 1 / 4 Arms



No UL certification

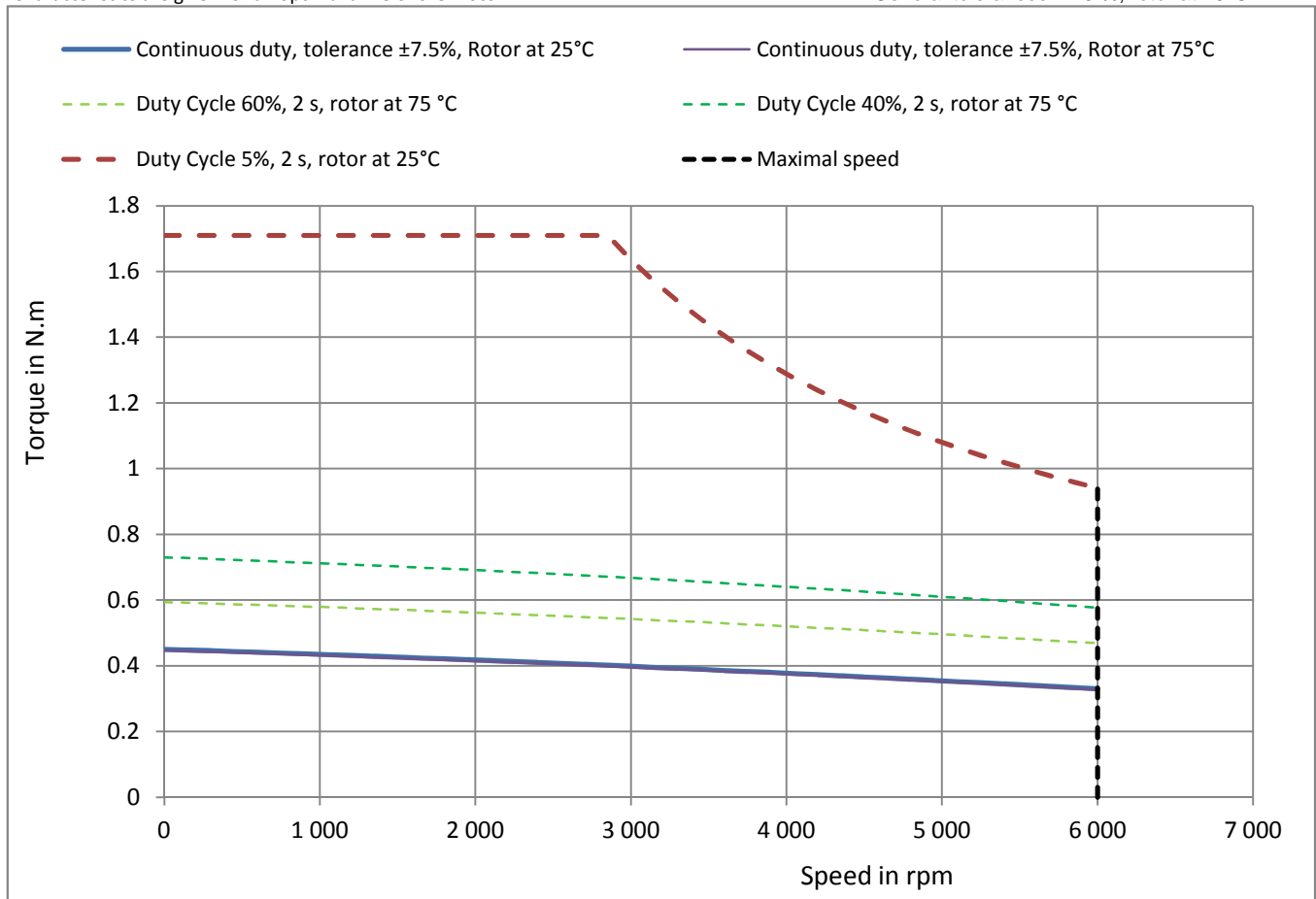
P _n	Rated power **	0.207	<i>kW</i>	Cooling type : Natural Air cooling Flange 280*280*8mm(ALU)
M _n	Rated torque **	0.329	<i>Nm</i>	
N _n	Rated speed	6000	<i>rpm</i>	
I _n	Rated current	0.785	<i>A_{rms}</i>	
U _n	Rated voltage *	192	<i>V_{rms}</i>	
U _R	Voltage of the mains	230	<i>V_{rms}</i>	
U	DC voltage supply when motor is loaded	310	<i>V</i>	
M _o	Low speed torque **	0.45	<i>N.m</i>	Environment : Ambient temperature : 40°C MAX Altitude : < 1000 m Thermal class : F (according to IEC 60034-1)
I _o	Permanent current at low speed	0.989	<i>A_{rms}</i>	
M _p	Max. torque **	1.71	<i>Nm</i>	
I _p	Max. current	3.96	<i>A_{rms}</i>	
N _p	Max. speed	6000	<i>rpm</i>	
J	Rotor inertia	0.13	<i>kg.cm²</i>	Number of poles : 10 Efficiency : at rated torque : 84 % at 75% of rated torque : 84.9 %
K _e	Back emf constant at 1000 rpm (25°C)*	29.9	<i>V_{rms}</i>	
K _t	Torque sensitivity (25°C)	0.455	<i>Nm/A_{rms}</i>	
R _b	Winding resistance(25°C) *	22.6	<i>Ω</i>	
L	Winding inductance *	26.5	<i>mH</i>	

All data are given in typical values under standard conditions.

* Phase to Phase

Characteristics are given for an optimal drive of the motor.

** General tolerances ±7.5 %, rotor at 25°C



BRUSHLESS MOTOR
NX210EAP / NK210EKP
 ELECTRONIC DRIVE
DRIVE 2 / 8 Arms



No UL certification

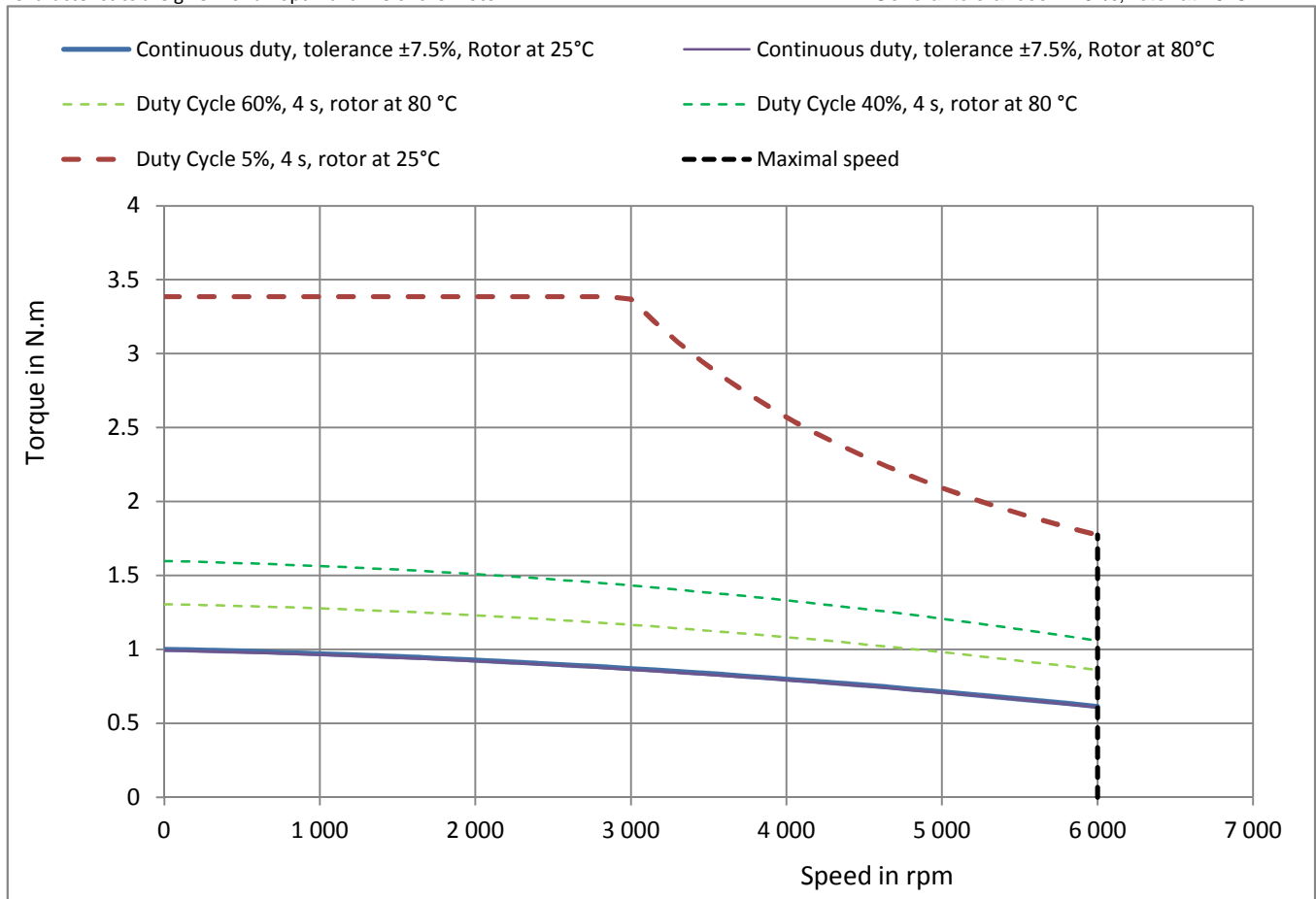
P _n	Rated power **	0.385	<i>kW</i>	Cooling type : Natural Air cooling Flange 280*280*8mm(ALU)
M _n	Rated torque **	0.613	<i>Nm</i>	
N _n	Rated speed	6000	<i>rpm</i>	
I _n	Rated current	1.32	<i>A_{rms}</i>	
U _n	Rated voltage *	199	<i>V_{rms}</i>	
U _R	Voltage of the mains	230	<i>V_{rms}</i>	
U	DC voltage supply when motor is loaded	310	<i>V</i>	
M _o	Low speed torque **	1	<i>N.m</i>	Environment : Ambient temperature : 40°C MAX Altitude : < 1000 m Thermal class : F (according to IEC 60034-1)
I _o	Permanent current at low speed	1.99	<i>A_{rms}</i>	
M _p	Max. torque **	3.39	<i>Nm</i>	
I _p	Max. current	7.96	<i>A_{rms}</i>	
N _p	Max. speed	6000	<i>rpm</i>	
J	Rotor inertia	0.38	<i>kg.cm²</i>	Number of poles : 10 Efficiency : at rated torque : 88.7 % at 75% of rated torque : 88.4 %
K _e	Back emf constant at 1000 rpm (25°C)*	32.6	<i>V_{rms}</i>	
K _t	Torque sensitivity (25°C)	0.503	<i>Nm/A_{rms}</i>	
R _b	Winding resistance(25°C) *	7.74	<i>Ω</i>	
L	Winding inductance *	15.8	<i>mH</i>	

All data are given in typical values under standard conditions.

* Phase to Phase

Characteristics are given for an optimal drive of the motor.

** General tolerances ±7.5 %, rotor at 25°C



BRUSHLESS MOTOR
NX210EAT / NK210EKT
 ELECTRONIC DRIVE
DRIVE 1.5 / 6 Arms



No UL certification

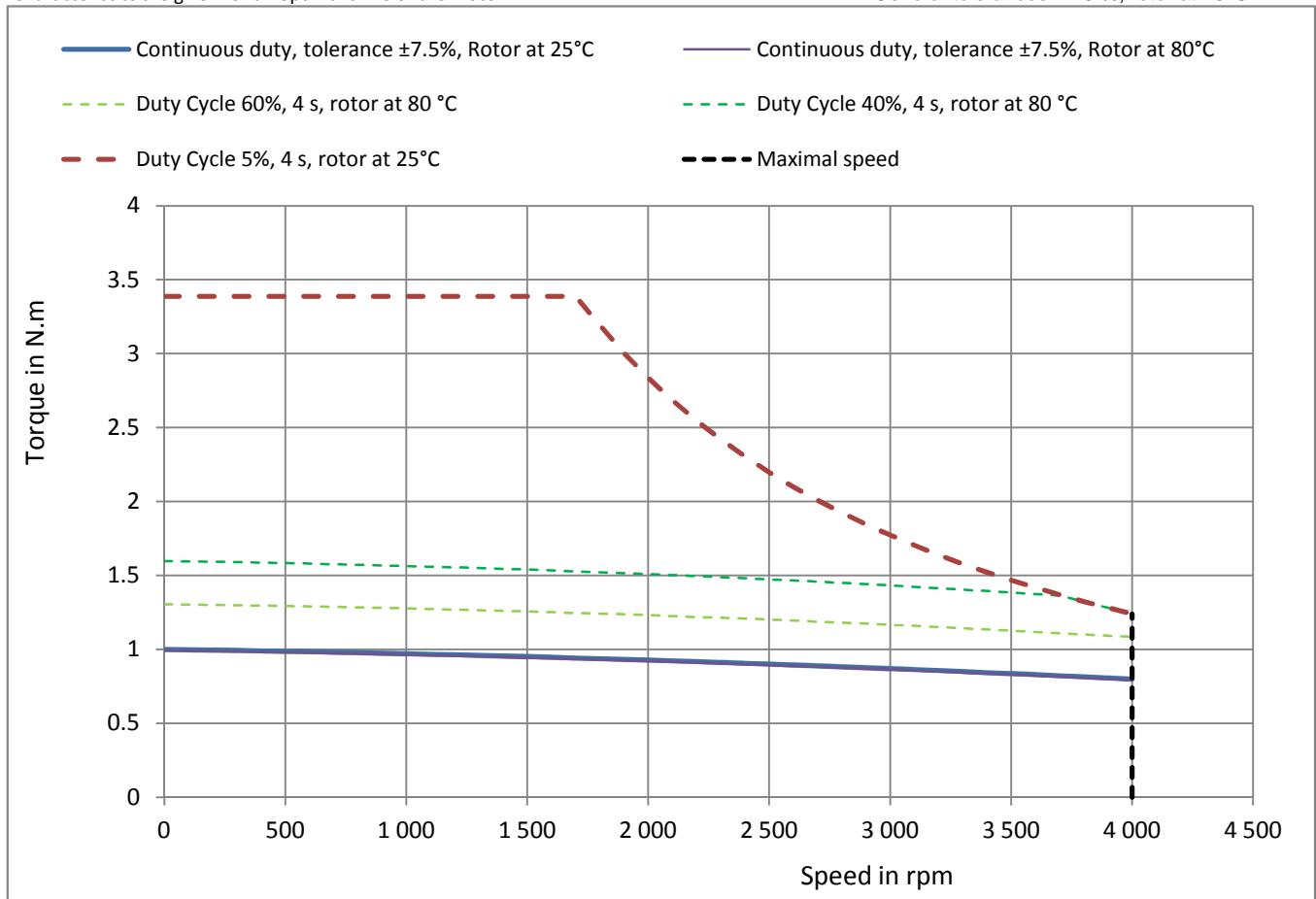
P _n	Rated power **	0.334	<i>kW</i>	Cooling type : Natural Air cooling Flange 280*280*8mm(ALU)
M _n	Rated torque **	0.798	<i>Nm</i>	
N _n	Rated speed	4000	<i>rpm</i>	
I _n	Rated current	1.11	<i>A_{rms}</i>	
U _n	Rated voltage *	210	<i>V_{rms}</i>	
U _R	Voltage of the mains	230	<i>V_{rms}</i>	
U	DC voltage supply when motor is loaded	310	<i>V</i>	
M _o	Low speed torque **	1	<i>N.m</i>	Environment : Ambient temperature : 40°C MAX Altitude : < 1000 m Thermal class : F (according to IEC 60034-1)
I _o	Permanent current at low speed	1.33	<i>A_{rms}</i>	
M _p	Max. torque **	3.39	<i>Nm</i>	
I _p	Max. current	5.35	<i>A_{rms}</i>	
N _p	Max. speed	4000	<i>rpm</i>	
J	Rotor inertia	0.38	<i>kg.cm²</i>	Number of poles : 10 Efficiency : at rated torque : 86.6 % at 75% of rated torque : 88.2 %
K _e	Back emf constant at 1000 rpm (25°C)*	48.6	<i>V_{rms}</i>	
K _t	Torque sensitivity (25°C)	0.749	<i>Nm/A_{rms}</i>	
R _b	Winding resistance(25°C) *	16.3	<i>Ω</i>	
L	Winding inductance *	35	<i>mH</i>	

All data are given in typical values under standard conditions.

* Phase to Phase

Characteristics are given for an optimal drive of the motor.

** General tolerances ±7.5 %, rotor at 25°C



BRUSHLESS MOTOR
NX310EAK / NK310EKK
 ELECTRONIC DRIVE
DRIVE 2.5 / 10 Arms



UL certified

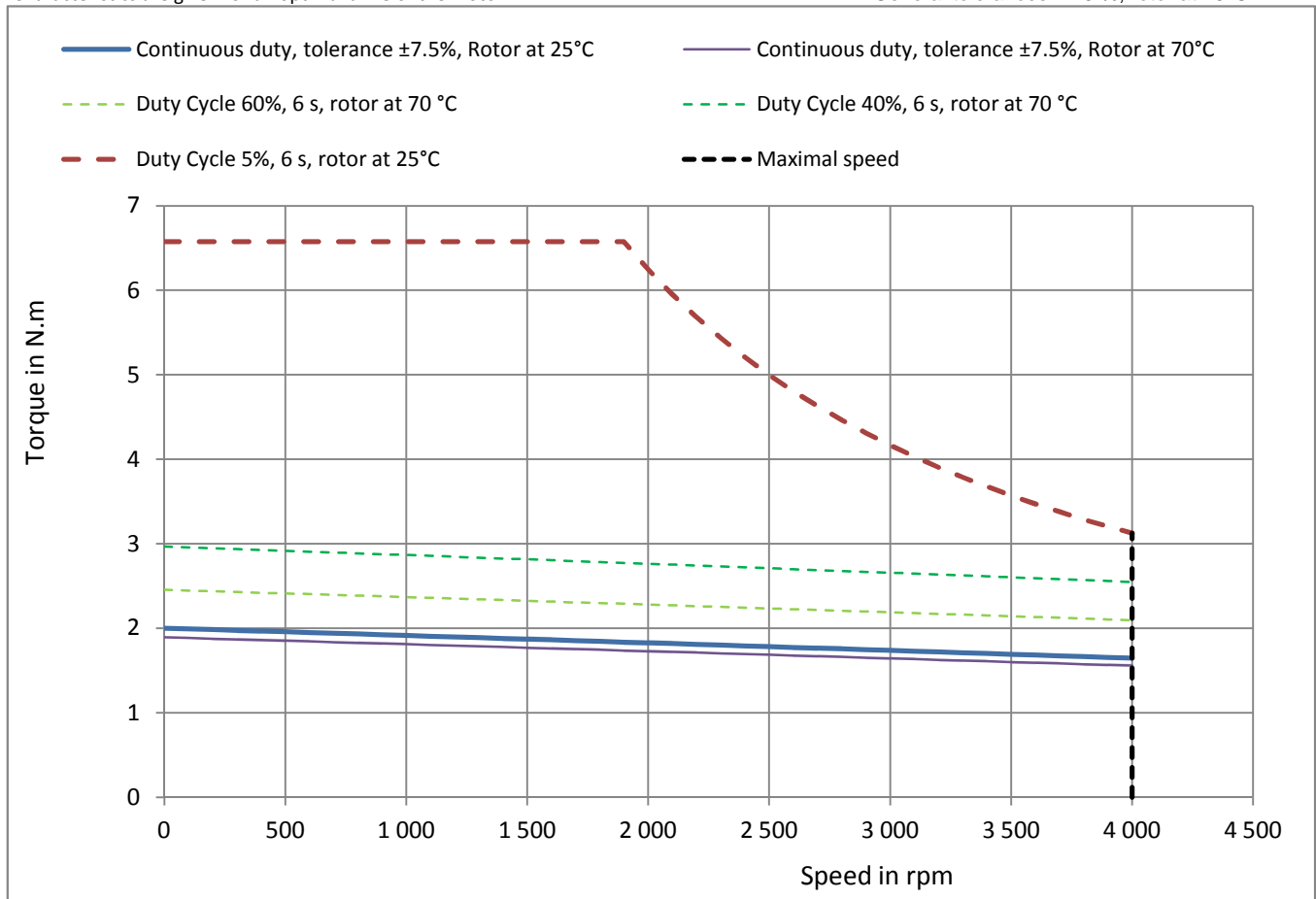
P _n	Rated power **	0.689	<i>kW</i>	Cooling type : Natural Air cooling Flange 400*400*12mm(ALU)
M _n	Rated torque **	1.65	<i>Nm</i>	
N _n	Rated speed	4000	<i>rpm</i>	
I _n	Rated current	2.06	<i>A_{rms}</i>	
U _n	Rated voltage *	225	<i>V_{rms}</i>	
U _R	Voltage of the mains	230	<i>V_{rms}</i>	
U	DC voltage supply when motor is loaded	310	<i>V</i>	
M _o	Low speed torque **	2	<i>N.m</i>	Environment : Ambient temperature : 40°C MAX Altitude : < 1000 m Thermal class : F (according to IEC 60034-1)
I _o	Permanent current at low speed	2.43	<i>A_{rms}</i>	
M _p	Max. torque **	6.58	<i>Nm</i>	
I _p	Max. current	9.71	<i>A_{rms}</i>	
N _p	Max. speed	4000	<i>rpm</i>	
J	Rotor inertia	0.79	<i>kg.cm²</i>	Efficiency : at rated torque : 89.5 % at 75% of rated torque : 90.6 %
K _e	Back emf constant at 1000 rpm (25°C)*	50.9	<i>V_{rms}</i>	
K _t	Torque sensitivity (25°C)	0.823	<i>Nm/A_{rms}</i>	
R _b	Winding resistance(25°C) *	6.58	<i>Ω</i>	
L	Winding inductance *	20.3	<i>mH</i>	

All data are given in typical values under standard conditions.

* Phase to Phase

Characteristics are given for an optimal drive of the motor.

** General tolerances ±7.5 %, rotor at 25°C



BRUSHLESS MOTOR
NX310EAP / NK310EKP
 ELECTRONIC DRIVE
DRIVE 1.5 / 6 Arms



UL certified

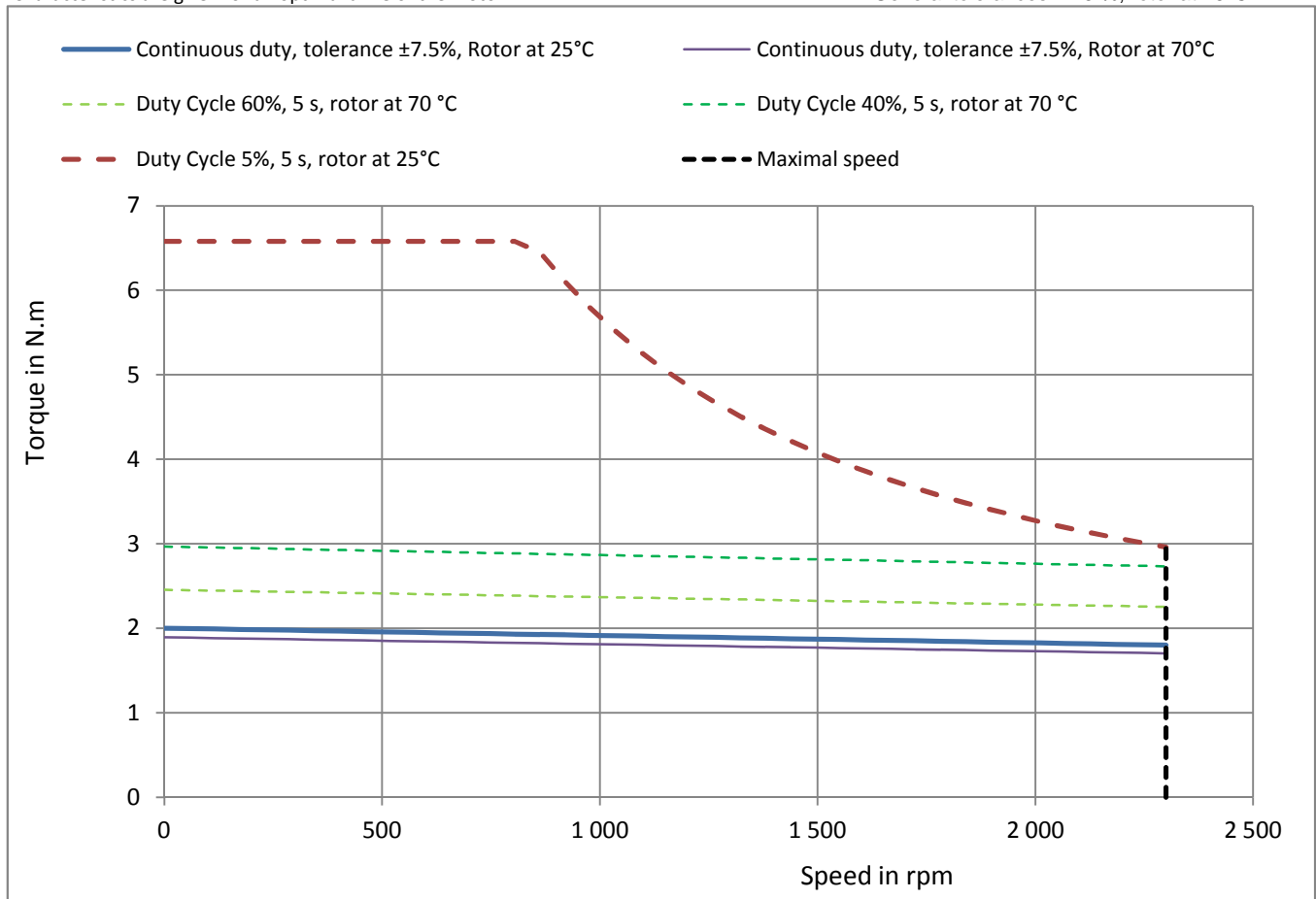
P _n	Rated power **	0.433	<i>kW</i>	Cooling type : Natural Air cooling Flange 400*400*12mm(ALU)
M _n	Rated torque **	1.8	<i>Nm</i>	
N _n	Rated speed	2300	<i>rpm</i>	
I _n	Rated current	1.27	<i>A_{rms}</i>	
U _n	Rated voltage *	242	<i>V_{rms}</i>	
U _R	Voltage of the mains	230	<i>V_{rms}</i>	
U	DC voltage supply when motor is loaded	310	<i>V</i>	
M _o	Low speed torque **	2	<i>N.m</i>	Environment : Ambient temperature : 40°C MAX Altitude : < 1000 m Thermal class : F (according to IEC 60034-1)
I _o	Permanent current at low speed	1.39	<i>A_{rms}</i>	
M _p	Max. torque **	6.58	<i>Nm</i>	
I _p	Max. current	5.56	<i>A_{rms}</i>	
N _p	Max. speed	2300	<i>rpm</i>	
J	Rotor inertia	0.79	<i>kg.cm²</i>	Efficiency : at rated torque : 84.4 % at 75% of rated torque : 87.6 %
K _e	Back emf constant at 1000 rpm (25°C)*	88.9	<i>V_{rms}</i>	
K _t	Torque sensitivity (25°C)	1.44	<i>Nm/A_{rms}</i>	
R _b	Winding resistance(25°C) *	20.7	<i>Ω</i>	
L	Winding inductance *	62	<i>mH</i>	

All data are given in typical values under standard conditions.

* Phase to Phase

Characteristics are given for an optimal drive of the motor.

** General tolerances ±7.5 %, rotor at 25°C



BRUSHLESS MOTOR
NX420EAJ / NK420EKJ
 ELECTRONIC DRIVE
DRIVE 5 / 20 Arms



UL certified

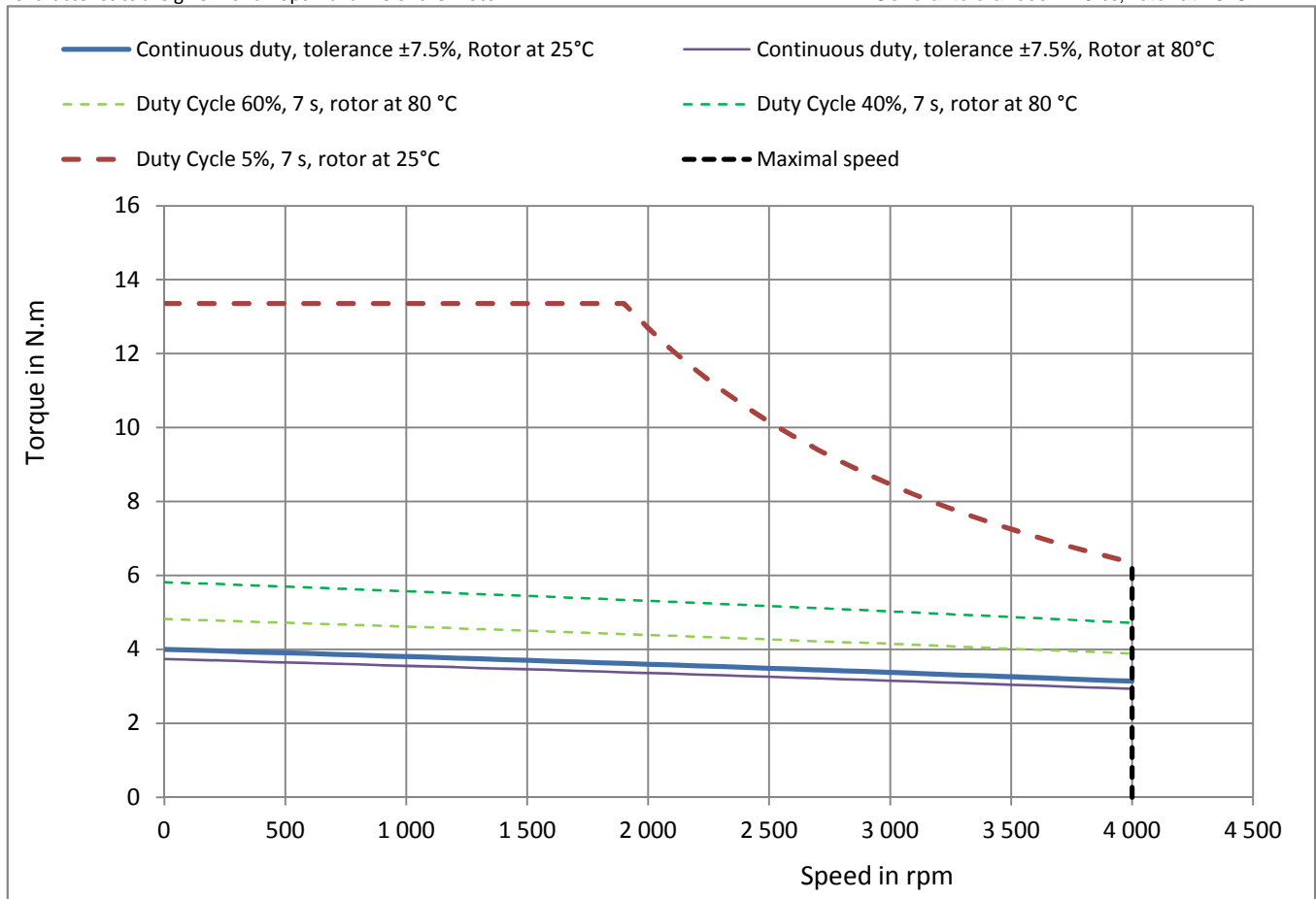
P _n	Rated power **	1.31	<i>kW</i>	Cooling type : Natural Air cooling Flange 400*400*12mm(ALU)
M _n	Rated torque **	3.14	<i>Nm</i>	
N _n	Rated speed	4000	<i>rpm</i>	
I _n	Rated current	3.74	<i>A_{rms}</i>	
U _n	Rated voltage *	226	<i>V_{rms}</i>	
U _R	Voltage of the mains	230	<i>V_{rms}</i>	
U	DC voltage supply when motor is loaded	310	<i>V</i>	
M _o	Low speed torque **	4	<i>N.m</i>	Environment : Ambient temperature : 40°C MAX Altitude : < 1000 m Thermal class : F (according to IEC 60034-1)
I _o	Permanent current at low speed	4.69	<i>A_{rms}</i>	
M _p	Max. torque **	13.4	<i>Nm</i>	
I _p	Max. current	18.8	<i>A_{rms}</i>	
N _p	Max. speed	4000	<i>rpm</i>	
J	Rotor inertia	0.00029	<i>kg.m²</i>	
K _e	Back emf constant at 1000 rpm (25°C)*	51.9	<i>V_{rms}</i>	Efficiency : at rated torque : 92.2 % at 75% of rated torque : 92.4 %
K _t	Torque sensitivity (25°C)	0.853	<i>Nm/A_{rms}</i>	
R _b	Winding resistance(25°C) *	2.31	<i>Ω</i>	
L	Winding inductance *	11	<i>mH</i>	

All data are given in typical values under standard conditions.

* Phase to Phase

Characteristics are given for an optimal drive of the motor.

** General tolerances ±7.5 %, rotor at 25°C



BRUSHLESS MOTOR
NX420EAP / NK420EKP
 ELECTRONIC DRIVE
DRIVE 3 / 11 Arms



UL certified

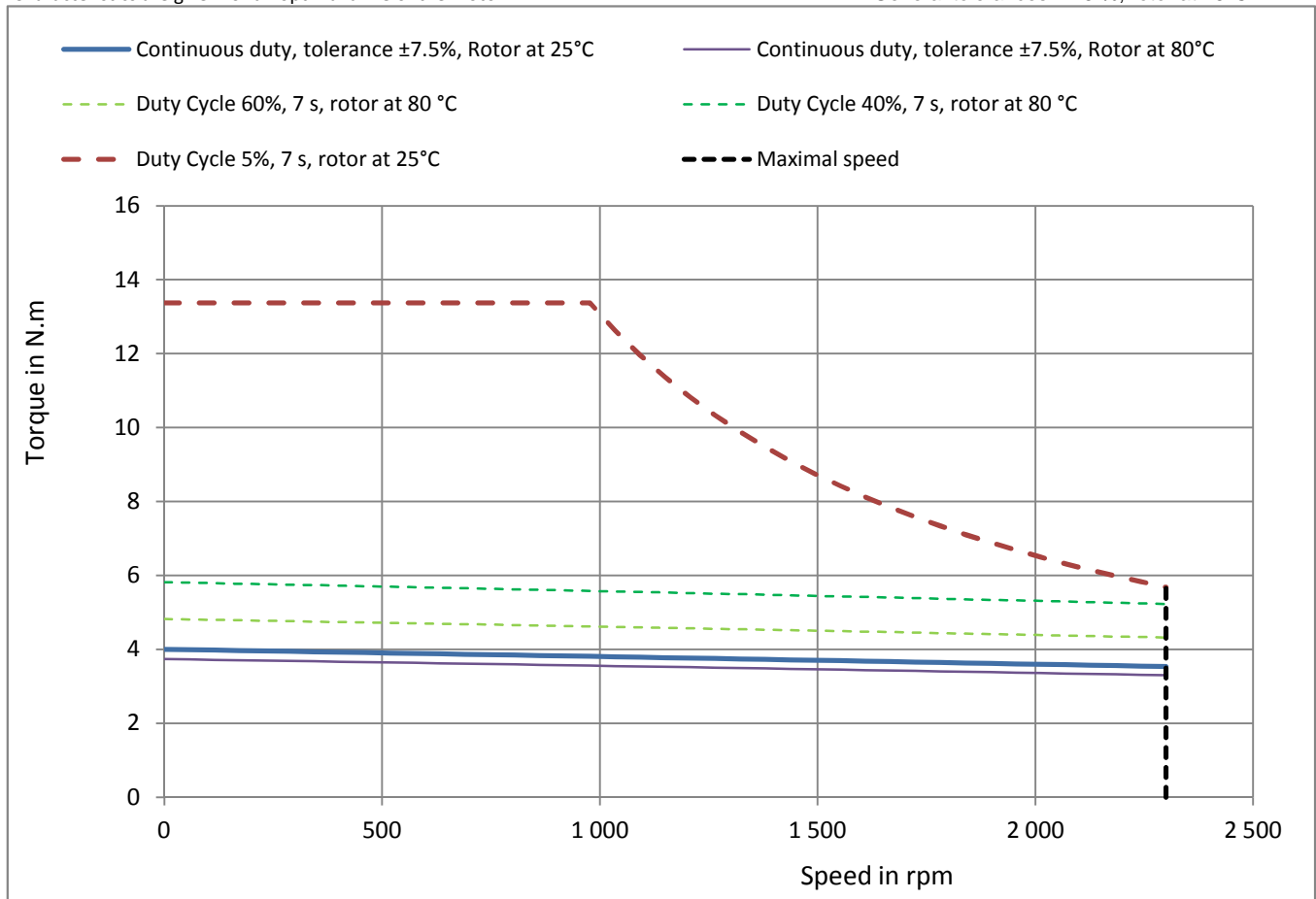
P _n	Rated power **	0.851	<i>kW</i>	Cooling type : Natural Air cooling Flange 400*400*12mm(ALU)
M _n	Rated torque **	3.53	<i>Nm</i>	
N _n	Rated speed	2300	<i>rpm</i>	
I _n	Rated current	2.41	<i>A_{rms}</i>	
U _n	Rated voltage *	237	<i>V_{rms}</i>	
U _R	Voltage of the mains	230	<i>V_{rms}</i>	
U	DC voltage supply when motor is loaded	310	<i>V</i>	
M _o	Low speed torque **	4	<i>N.m</i>	Environment : Ambient temperature : 40°C MAX Altitude : < 1000 m Thermal class : F (according to IEC 60034-1)
I _o	Permanent current at low speed	2.71	<i>A_{rms}</i>	
M _p	Max. torque **	13.4	<i>Nm</i>	
I _p	Max. current	10.9	<i>A_{rms}</i>	
N _p	Max. speed	2300	<i>rpm</i>	
J	Rotor inertia	0.00029	<i>kg.m²</i>	Number of poles : 10 Efficiency : at rated torque : 89.1 % at 75% of rated torque : 90.9 %
K _e	Back emf constant at 1000 rpm (25°C)*	89.9	<i>V_{rms}</i>	
K _t	Torque sensitivity (25°C)	1.48	<i>Nm/A_{rms}</i>	
R _b	Winding resistance(25°C) *	7.2	<i>Ω</i>	
L	Winding inductance *	33	<i>mH</i>	

All data are given in typical values under standard conditions.

* Phase to Phase

Characteristics are given for an optimal drive of the motor.

** General tolerances ±7.5 %, rotor at 25°C



BRUSHLESS MOTOR
NX430EAF / NK430EKF
 ELECTRONIC DRIVE
DRIVE 7 / 27 Arms



UL certified

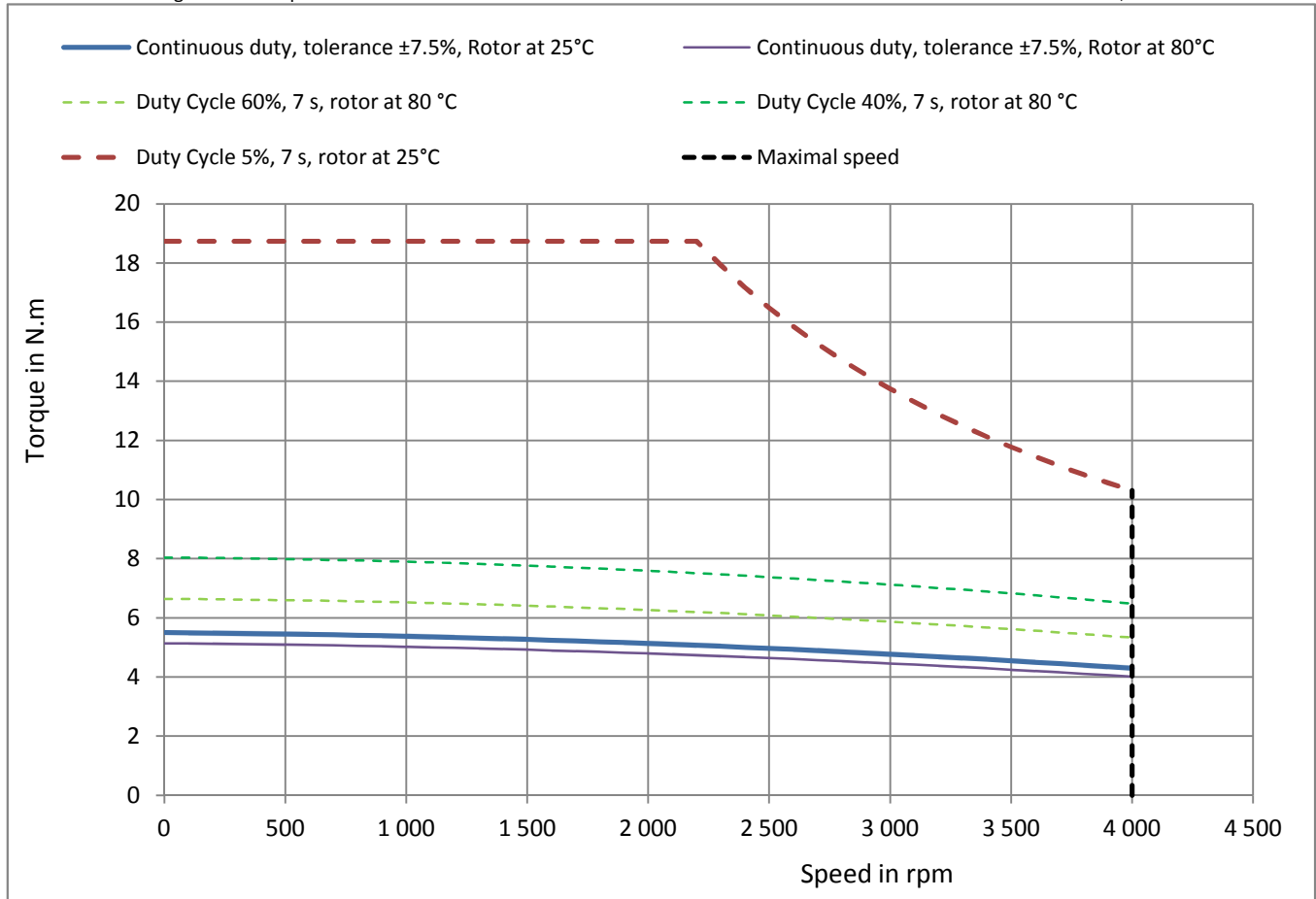
P _n	Rated power **	1.8	<i>kW</i>	Cooling type : Natural Air cooling Flange 400*400*12mm(ALU)
M _n	Rated torque **	4.29	<i>Nm</i>	
N _n	Rated speed	4000	<i>rpm</i>	
I _n	Rated current	5.28	<i>A_{rms}</i>	
U _n	Rated voltage *	217	<i>V_{rms}</i>	
U _R	Voltage of the mains	230	<i>V_{rms}</i>	
U	DC voltage supply when motor is loaded	310	<i>V</i>	
M _o	Low speed torque **	5.5	<i>N.m</i>	Environment : Ambient temperature : 40°C MAX Altitude : < 1000 m Thermal class : F (according to IEC 60034-1)
I _o	Permanent current at low speed	6.64	<i>A_{rms}</i>	
M _p	Max. torque **	18.7	<i>Nm</i>	
I _p	Max. current	26.5	<i>A_{rms}</i>	
N _p	Max. speed	4000	<i>rpm</i>	
J	Rotor inertia	0.00043	<i>kg.m²</i>	
K _e	Back emf constant at 1000 rpm (25°C)*	51.8	<i>V_{rms}</i>	Efficiency : at rated torque : 92.7 % at 75% of rated torque : 92.9 %
K _t	Torque sensitivity (25°C)	0.828	<i>Nm/A_{rms}</i>	
R _b	Winding resistance(25°C) *	1.38	<i>Ω</i>	
L	Winding inductance *	6.8	<i>mH</i>	

All data are given in typical values under standard conditions.

* Phase to Phase

Characteristics are given for an optimal drive of the motor.

** General tolerances ±7.5 %, rotor at 25°C



BRUSHLESS MOTOR
NX430EAJ / NK430EKJ
 ELECTRONIC DRIVE
DRIVE 6 / 22 Arms



UL certified

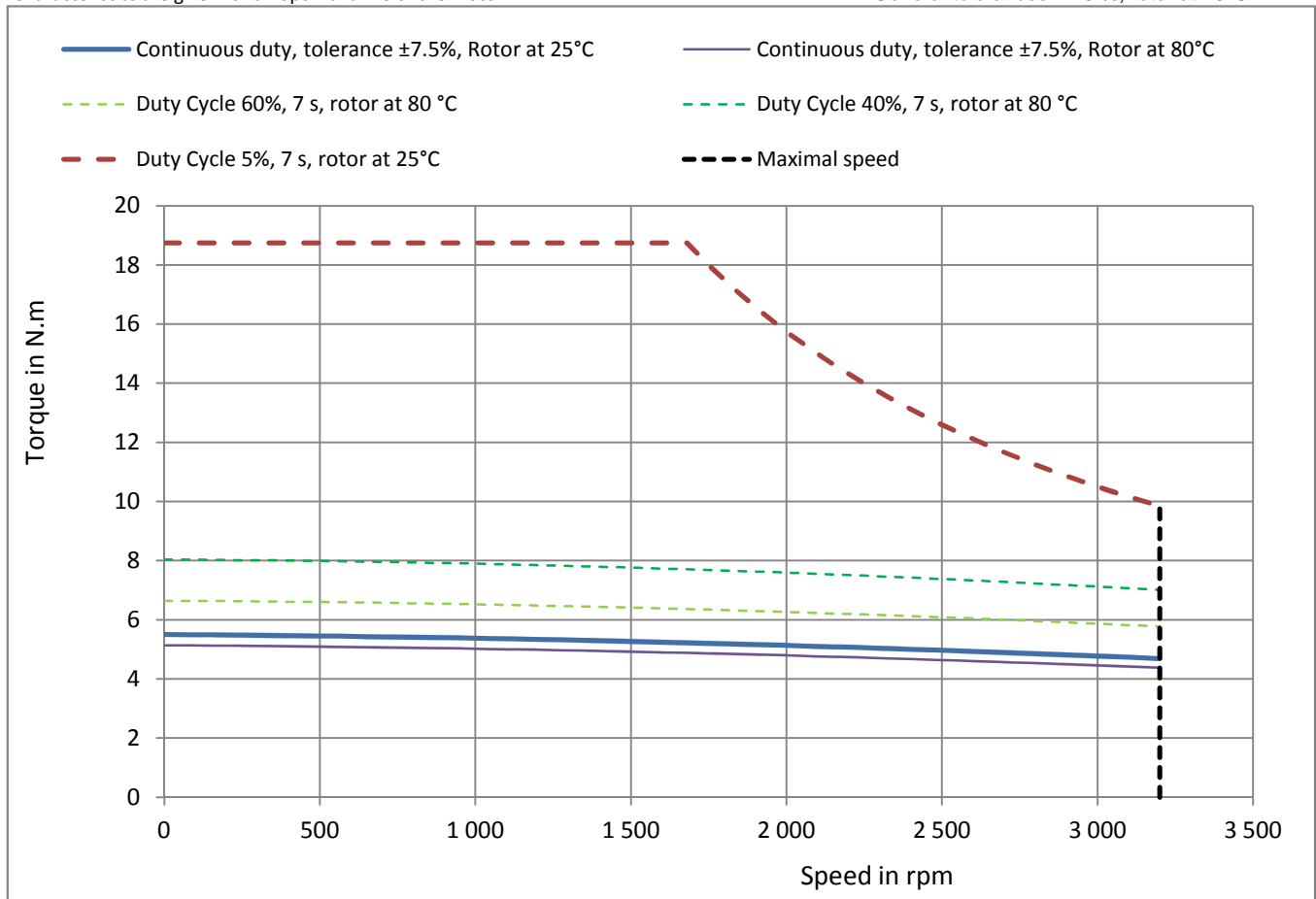
P _n	Rated power **	1.57	<i>kW</i>	Cooling type : Natural Air cooling Flange 400*400*12mm(ALU)
M _n	Rated torque **	4.68	<i>Nm</i>	
N _n	Rated speed	3200	<i>rpm</i>	
I _n	Rated current	4.53	<i>A_{rms}</i>	
U _n	Rated voltage *	224	<i>V_{rms}</i>	
U _R	Voltage of the mains	230	<i>V_{rms}</i>	
U	DC voltage supply when motor is loaded	310	<i>V</i>	
M _o	Low speed torque **	5.5	<i>N.m</i>	Environment : Ambient temperature : 40°C MAX Altitude : < 1000 m Thermal class : F (according to IEC 60034-1)
I _o	Permanent current at low speed	5.24	<i>A_{rms}</i>	
M _p	Max. torque **	18.7	<i>Nm</i>	
I _p	Max. current	21	<i>A_{rms}</i>	
N _p	Max. speed	3200	<i>rpm</i>	
J	Rotor inertia	0.00043	<i>kg.m²</i>	Number of poles : 10 Efficiency : at rated torque : 92 % at 75% of rated torque : 92.8 %
K _e	Back emf constant at 1000 rpm (25°C)*	65.6	<i>V_{rms}</i>	
K _t	Torque sensitivity (25°C)	1.05	<i>Nm/A_{rms}</i>	
R _b	Winding resistance(25°C) *	2.19	<i>Ω</i>	
L	Winding inductance *	10.9	<i>mH</i>	

All data are given in typical values under standard conditions.

* Phase to Phase

Characteristics are given for an optimal drive of the motor.

** General tolerances ±7.5 %, rotor at 25°C



BRUSHLESS MOTOR
NX620EAJ / NK620EKJ
 ELECTRONIC DRIVE
DRIVE 10 / 40 Arms



UL certified

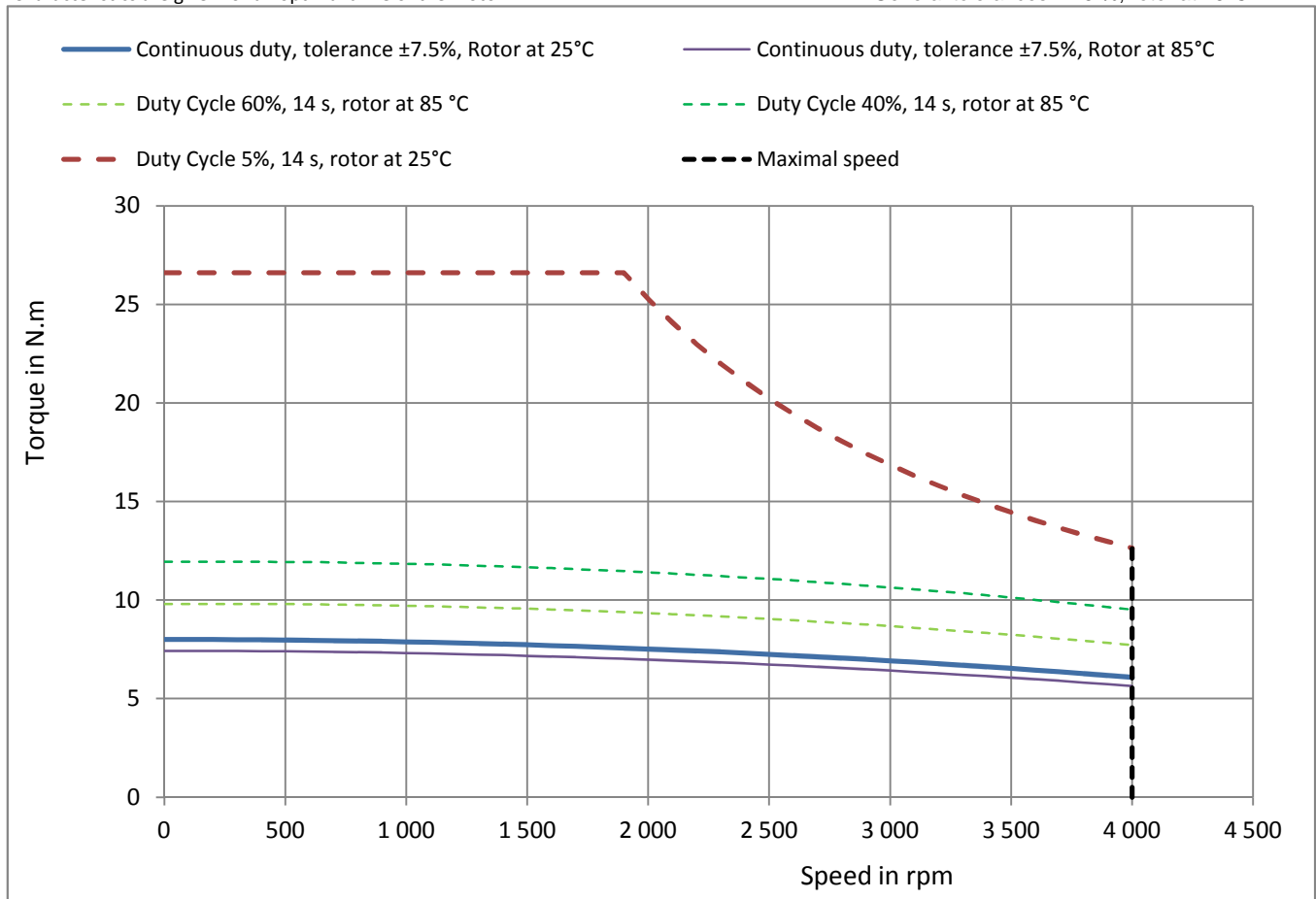
P _n	Rated power **	2.55	<i>kW</i>	Cooling type : Natural Air cooling Flange 400*400*12mm(ALU)
M _n	Rated torque **	6.08	<i>Nm</i>	
N _n	Rated speed	4000	<i>rpm</i>	
I _n	Rated current	7.82	<i>A_{rms}</i>	
U _n	Rated voltage *	209	<i>V_{rms}</i>	
U _R	Voltage of the mains	230	<i>V_{rms}</i>	
U	DC voltage supply when motor is loaded	310	<i>V</i>	
M _o	Low speed torque **	8	<i>N.m</i>	Environment : Ambient temperature : 40°C MAX Altitude : < 1000 m Thermal class : F (according to IEC 60034-1)
I _o	Permanent current at low speed	9.89	<i>A_{rms}</i>	
M _p	Max. torque **	26.6	<i>Nm</i>	
I _p	Max. current	39.5	<i>A_{rms}</i>	
N _p	Max. speed	4000	<i>rpm</i>	
J	Rotor inertia	0.00098	<i>kg.m²</i>	Number of poles : 10 Efficiency : at rated torque : 94.4 % at 75% of rated torque : 94.3 %
K _e	Back emf constant at 1000 rpm (25°C)*	51.3	<i>V_{rms}</i>	
K _t	Torque sensitivity (25°C)	0.809	<i>Nm/A_{rms}</i>	
R _b	Winding resistance(25°C) *	0.603	<i>Ω</i>	
L	Winding inductance *	5.52	<i>mH</i>	

All data are given in typical values under standard conditions.

* Phase to Phase

Characteristics are given for an optimal drive of the motor.

** General tolerances ±7.5 %, rotor at 25°C



BRUSHLESS MOTOR
NX620EAR / NK620EKR
 ELECTRONIC DRIVE
DRIVE 6 / 22 Arms



UL certified

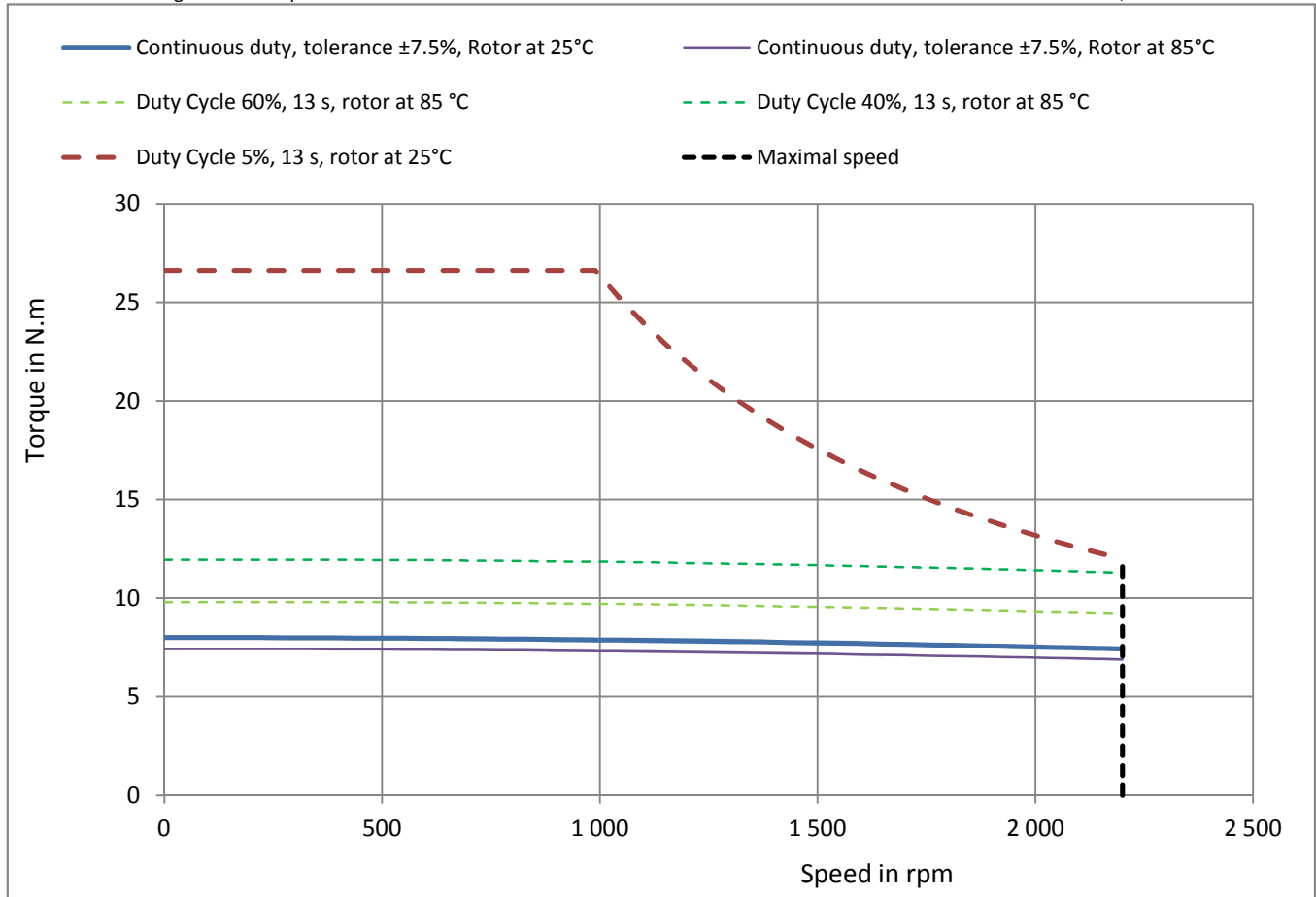
P _n	Rated power **	1.71	<i>kW</i>	Cooling type : Natural Air cooling Flange 400*400*12mm(ALU)
M _n	Rated torque **	7.42	<i>Nm</i>	
N _n	Rated speed	2200	<i>rpm</i>	
I _n	Rated current	4.99	<i>A_{rms}</i>	
U _n	Rated voltage *	229	<i>V_{rms}</i>	
U _R	Voltage of the mains	230	<i>V_{rms}</i>	
U	DC voltage supply when motor is loaded	310	<i>V</i>	
M _o	Low speed torque **	8	<i>N.m</i>	Environment : Ambient temperature : 40°C MAX Altitude : < 1000 m Thermal class : F (according to IEC 60034-1)
I _o	Permanent current at low speed	5.31	<i>A_{rms}</i>	
M _p	Max. torque **	26.6	<i>Nm</i>	
I _p	Max. current	21.2	<i>A_{rms}</i>	
N _p	Max. speed	2200	<i>rpm</i>	
J	Rotor inertia	0.00098	<i>kg.m²</i>	
K _e	Back emf constant at 1000 rpm (25°C)*	95.7	<i>V_{rms}</i>	Efficiency : at rated torque : 92 % at 75% of rated torque : 93.2 %
K _t	Torque sensitivity (25°C)	1.51	<i>Nm/A_{rms}</i>	
R _b	Winding resistance(25°C) *	2.24	<i>Ω</i>	
L	Winding inductance *	19.2	<i>mH</i>	

All data are given in typical values under standard conditions.

* Phase to Phase

Characteristics are given for an optimal drive of the motor.

** General tolerances ±7.5 %, rotor at 25°C



BRUSHLESS MOTOR
NX630EAG / NK630EKG
 ELECTRONIC DRIVE
DRIVE 14 / 56 Arms



No UL certification

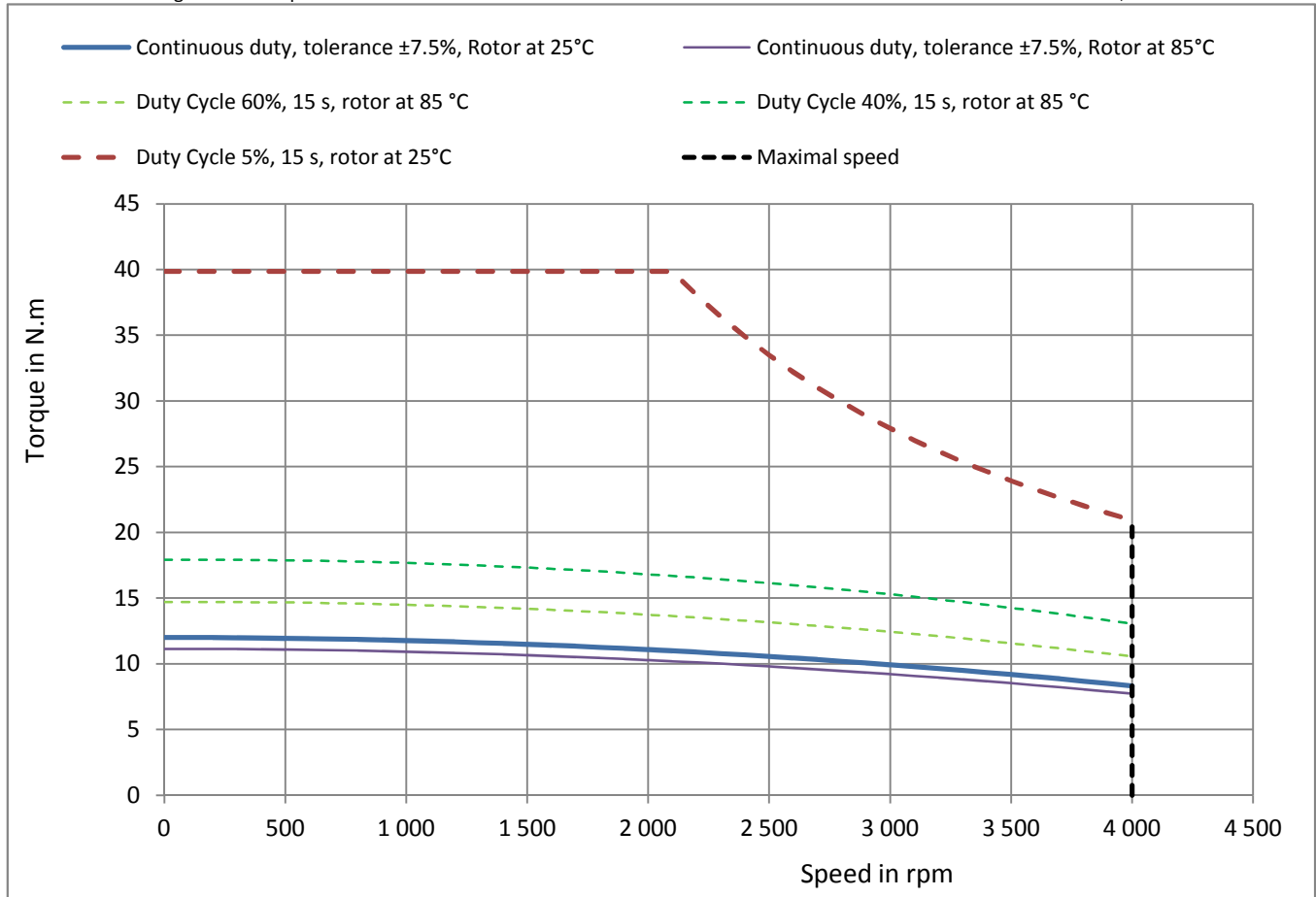
P _n	Rated power **	3.48	<i>kW</i>	Cooling type : Natural Air cooling Flange 400*400*12mm(ALU)
M _n	Rated torque **	8.31	<i>Nm</i>	
N _n	Rated speed	4000	<i>rpm</i>	
I _n	Rated current	10.1	<i>A_{rms}</i>	
U _n	Rated voltage *	215	<i>V_{rms}</i>	
U _R	Voltage of the mains	230	<i>V_{rms}</i>	
U	DC voltage supply when motor is loaded	310	<i>V</i>	
M _o	Low speed torque **	12	<i>N.m</i>	Environment : Ambient temperature : 40°C MAX Altitude : < 1000 m Thermal class : F (according to IEC 60034-1)
I _o	Permanent current at low speed	13.9	<i>A_{rms}</i>	
M _p	Max. torque **	39.9	<i>Nm</i>	
I _p	Max. current	55.6	<i>A_{rms}</i>	
N _p	Max. speed	4000	<i>rpm</i>	
J	Rotor inertia	0.0015	<i>kg.m²</i>	Efficiency : at rated torque : 94.6 % at 75% of rated torque : 94 %
K _e	Back emf constant at 1000 rpm (25°C)*	52.1	<i>V_{rms}</i>	
K _t	Torque sensitivity (25°C)	0.861	<i>Nm/A_{rms}</i>	
R _b	Winding resistance(25°C) *	0.341	<i>Ω</i>	
L	Winding inductance *	3.53	<i>mH</i>	

All data are given in typical values under standard conditions.

* Phase to Phase

Characteristics are given for an optimal drive of the motor.

** General tolerances ±7.5 %, rotor at 25°C



BRUSHLESS MOTOR
NX630EAK / NK630EKK
 ELECTRONIC DRIVE
DRIVE 10 / 40 Arms



UL certified

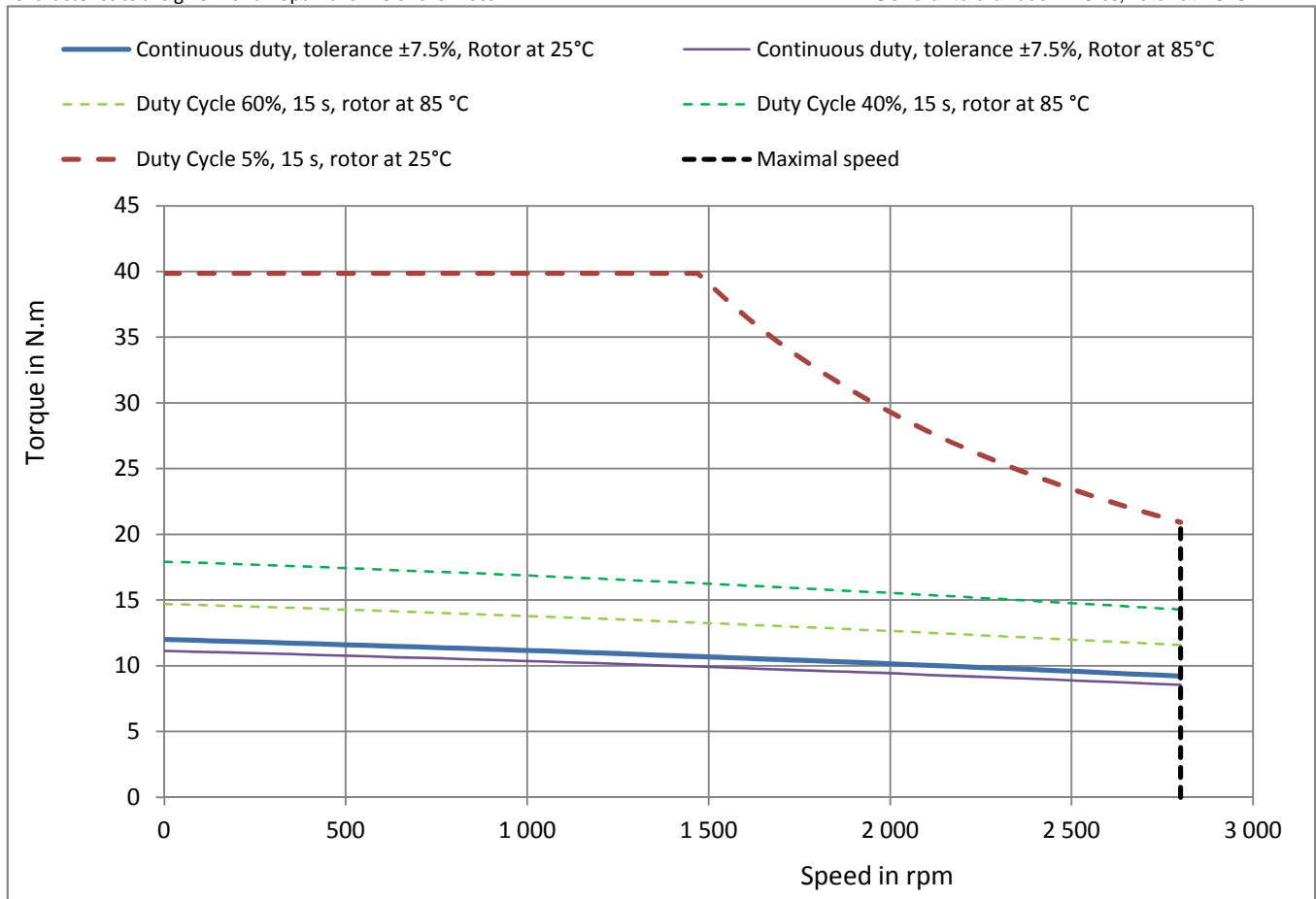
P _n	Rated power **	2.7	<i>kW</i>	Cooling type : Natural Air cooling Flange 400*400*12mm(ALU)
M _n	Rated torque **	9.21	<i>Nm</i>	
N _n	Rated speed	2800	<i>rpm</i>	
I _n	Rated current	7.8	<i>A_{rms}</i>	
U _n	Rated voltage *	217	<i>V_{rms}</i>	
U _R	Voltage of the mains	230	<i>V_{rms}</i>	
U	DC voltage supply when motor is loaded	310	<i>V</i>	
M _o	Low speed torque **	12	<i>N.m</i>	Environment : Ambient temperature : 40°C MAX Altitude : < 1000 m Thermal class : F (according to IEC 60034-1)
I _o	Permanent current at low speed	9.86	<i>A_{rms}</i>	
M _p	Max. torque **	39.9	<i>Nm</i>	
I _p	Max. current	39.4	<i>A_{rms}</i>	
N _p	Max. speed	2800	<i>rpm</i>	
J	Rotor inertia	0.0015	<i>kg.m²</i>	Efficiency : at rated torque : 94.4 % at 75% of rated torque : 94.3 %
K _e	Back emf constant at 1000 rpm (25°C)*	73.6	<i>V_{rms}</i>	
K _t	Torque sensitivity (25°C)	1.22	<i>Nm/A_{rms}</i>	
R _b	Winding resistance(25°C) *	0.674	<i>Ω</i>	
L	Winding inductance *	7.06	<i>mH</i>	

All data are given in typical values under standard conditions.

* Phase to Phase

Characteristics are given for an optimal drive of the motor.

** General tolerances ±7.5 %, rotor at 25°C



BRUSHLESS MOTOR
NX630EAR / NK630EKR
 ELECTRONIC DRIVE
DRIVE 6 / 22 Arms



UL certified

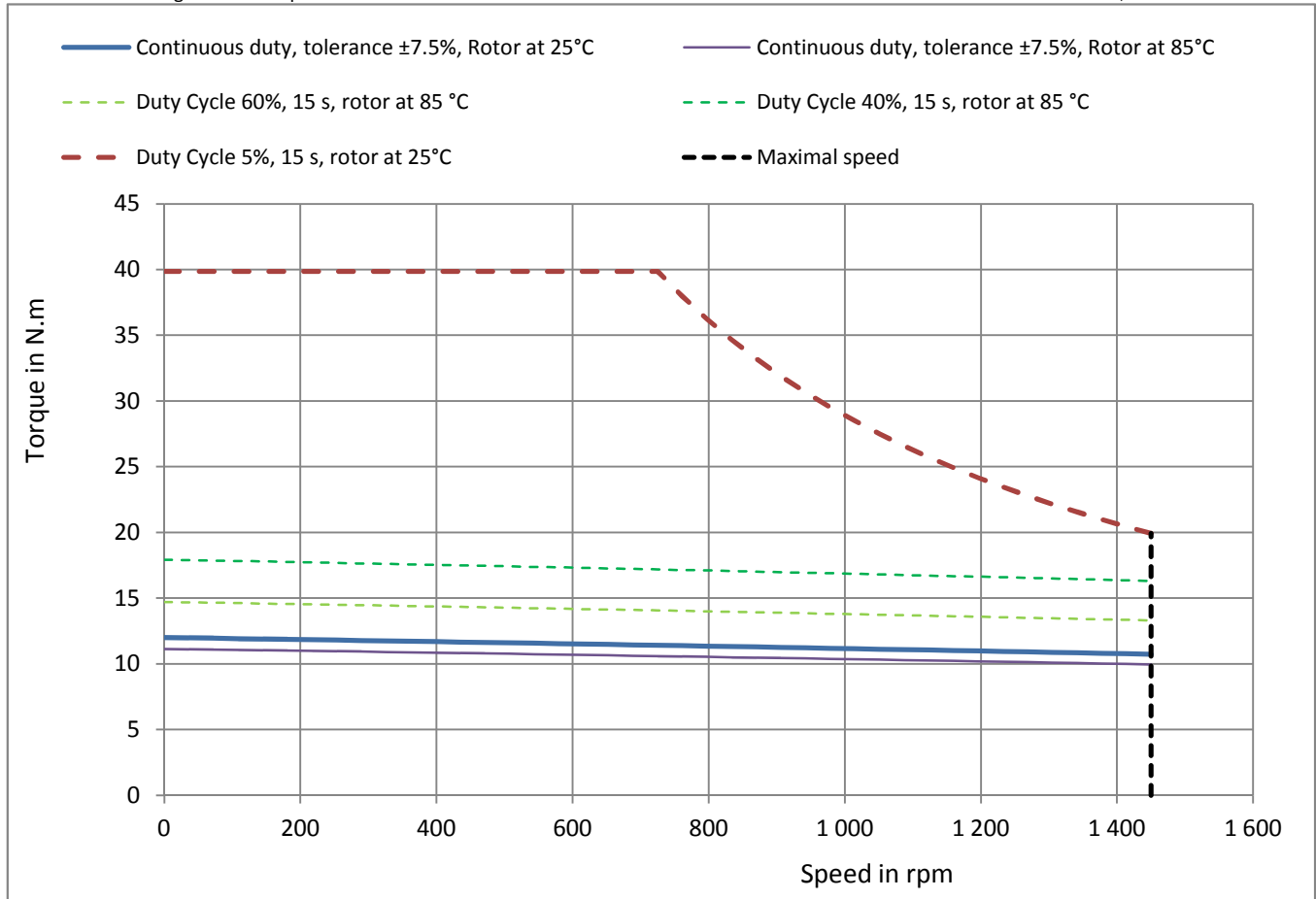
P _n	Rated power **	1.63	<i>kW</i>	Cooling type : Natural Air cooling Flange 400*400*12mm(ALU)
M _n	Rated torque **	10.7	<i>Nm</i>	
N _n	Rated speed	1450	<i>rpm</i>	
I _n	Rated current	4.75	<i>A_{rms}</i>	
U _n	Rated voltage *	223	<i>V_{rms}</i>	
U _R	Voltage of the mains	230	<i>V_{rms}</i>	
U	DC voltage supply when motor is loaded	310	<i>V</i>	
M _o	Low speed torque **	12	<i>N.m</i>	Environment : Ambient temperature : 40°C MAX Altitude : < 1000 m Thermal class : F (according to IEC 60034-1)
I _o	Permanent current at low speed	5.25	<i>A_{rms}</i>	
M _p	Max. torque **	39.9	<i>Nm</i>	
I _p	Max. current	21	<i>A_{rms}</i>	
N _p	Max. speed	1450	<i>rpm</i>	
J	Rotor inertia	0.0015	<i>kg.m²</i>	
K _e	Back emf constant at 1000 rpm (25°C)*	138	<i>V_{rms}</i>	Efficiency : at rated torque : 92 % at 75% of rated torque : 93.1 %
K _t	Torque sensitivity (25°C)	2.29	<i>Nm/A_{rms}</i>	
R _b	Winding resistance(25°C) *	2.43	<i>Ω</i>	
L	Winding inductance *	24.9	<i>mH</i>	

All data are given in typical values under standard conditions.

* Phase to Phase

Characteristics are given for an optimal drive of the motor.

** General tolerances ±7.5 %, rotor at 25°C



BRUSHLESS MOTOR
NX820EAL / NK820EKL
 ELECTRONIC DRIVE
DRIVE 18 / 70 Arms



UL certified

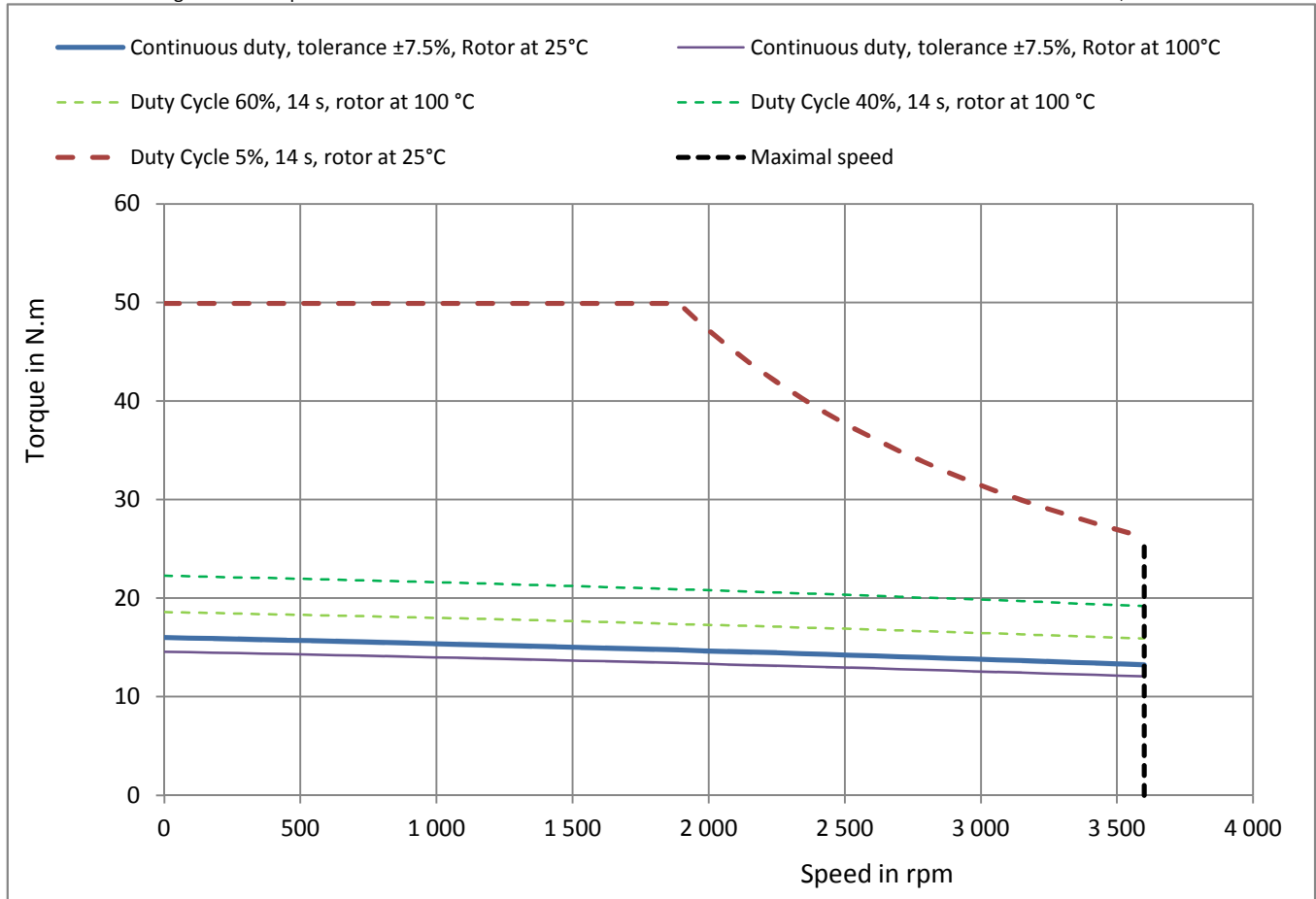
P _n	Rated power **	4.99	<i>kW</i>	Cooling type : Natural Air cooling Flange 400*400*12mm(ALU)
M _n	Rated torque **	13.2	<i>Nm</i>	
N _n	Rated speed	3600	<i>rpm</i>	
I _n	Rated current	14.8	<i>A_{rms}</i>	
U _n	Rated voltage *	212	<i>V_{rms}</i>	
UR	Voltage of the mains	230	<i>V_{rms}</i>	
U	DC voltage supply when motor is loaded	310	<i>V</i>	
M _o	Low speed torque **	16	<i>N.m</i>	Environment : Ambient temperature : 40°C MAX Altitude : < 1000 m Thermal class : F (according to IEC 60034-1)
I _o	Permanent current at low speed	17.6	<i>A_{rms}</i>	
M _p	Max. torque **	49.9	<i>Nm</i>	
I _p	Max. current	69.2	<i>A_{rms}</i>	
N _p	Max. speed	3600	<i>rpm</i>	
J	Rotor inertia	0.0032	<i>kg.m²</i>	Number of poles : 10
Ke	Back emf constant at 1000 rpm (25°C)*	56.9	<i>V_{rms}</i>	Efficiency : at rated torque : 93.7 % at 75% of rated torque : 93.8 %
Kt	Torque sensitivity (25°C)	0.911	<i>Nm/A_{rms}</i>	
R _b	Winding resistance(25°C) *	0.379	<i>Ω</i>	
L	Winding inductance *	3.35	<i>mH</i>	

All data are given in typical values under standard conditions.

* Phase to Phase

Characteristics are given for an optimal drive of the motor.

** General tolerances ±7.5 %, rotor at 25°C



BRUSHLESS MOTOR
NX840EAJ / NK840EKJ
 ELECTRONIC DRIVE
DRIVE 20 / 75 Arms



UL certified

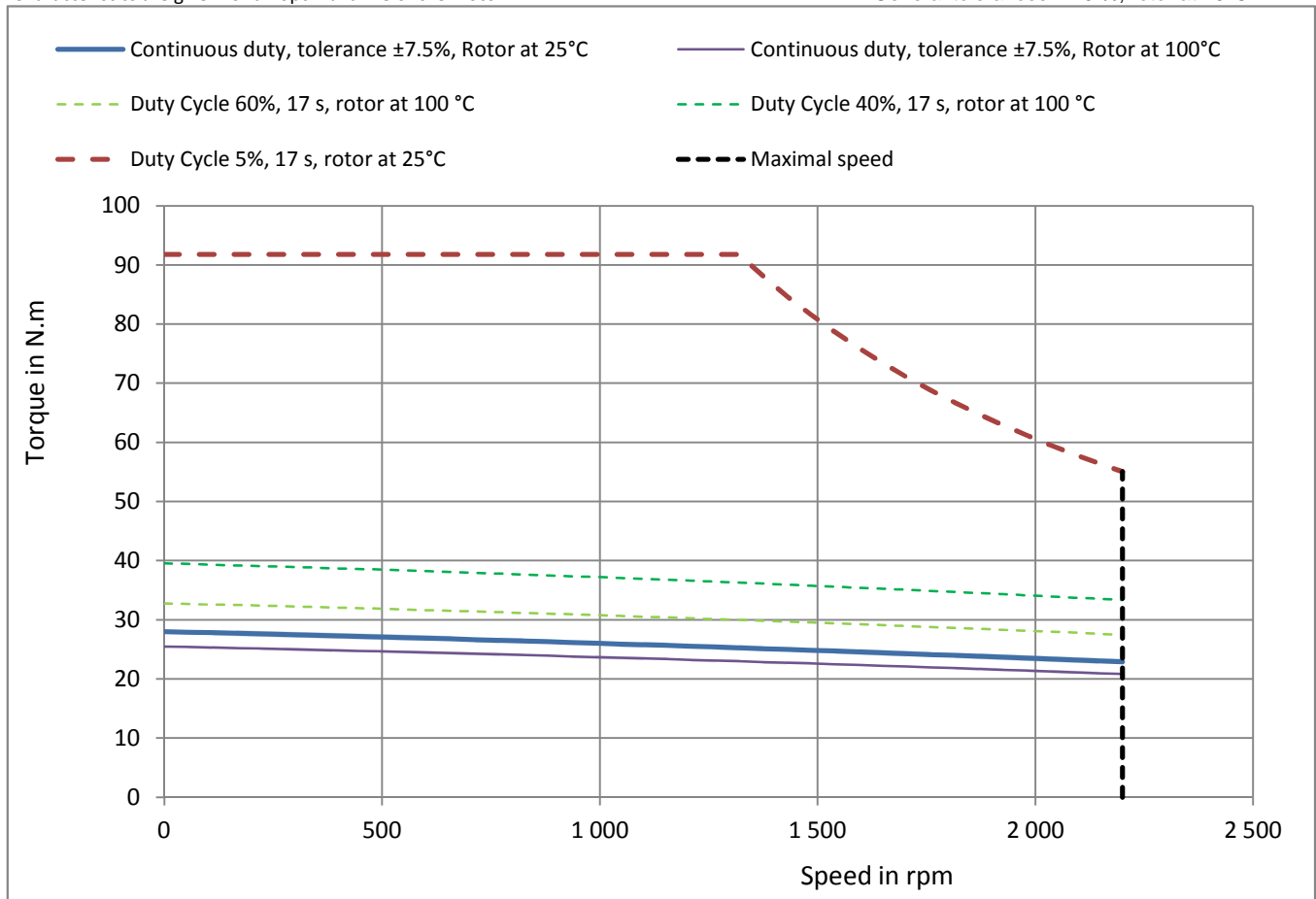
P _n	Rated power **	5.27	<i>kW</i>	Cooling type : Natural Air cooling Flange 400*400*12mm(ALU)
M _n	Rated torque **	22.9	<i>Nm</i>	
N _n	Rated speed	2200	<i>rpm</i>	
I _n	Rated current	15.7	<i>A_{rms}</i>	
U _n	Rated voltage *	208	<i>V_{rms}</i>	
U _R	Voltage of the mains	230	<i>V_{rms}</i>	
U	DC voltage supply when motor is loaded	310	<i>V</i>	
M _o	Low speed torque **	28	<i>N.m</i>	Environment : Ambient temperature : 40°C MAX Altitude : < 1000 m Thermal class : F (according to IEC 60034-1)
I _o	Permanent current at low speed	18.9	<i>A_{rms}</i>	
M _p	Max. torque **	91.8	<i>Nm</i>	
I _p	Max. current	74.8	<i>A_{rms}</i>	
N _p	Max. speed	2200	<i>rpm</i>	
J	Rotor inertia	0.0062	<i>kg.m²</i>	Number of poles : 10
K _e	Back emf constant at 1000 rpm (25°C)*	92.8	<i>V_{rms}</i>	Efficiency : at rated torque : 94.3 % at 75% of rated torque : 94.5 %
K _t	Torque sensitivity (25°C)	1.48	<i>Nm/A_{rms}</i>	
R _b	Winding resistance(25°C) *	0.371	<i>Ω</i>	
L	Winding inductance *	4.28	<i>mH</i>	

All data are given in typical values under standard conditions.

* Phase to Phase

Characteristics are given for an optimal drive of the motor.

** General tolerances ±7.5 %, rotor at 25°C



BRUSHLESS MOTOR
NX860EAD / NK860EKD
 ELECTRONIC DRIVE
DRIVE 35 / 135 Arms



No UL certification

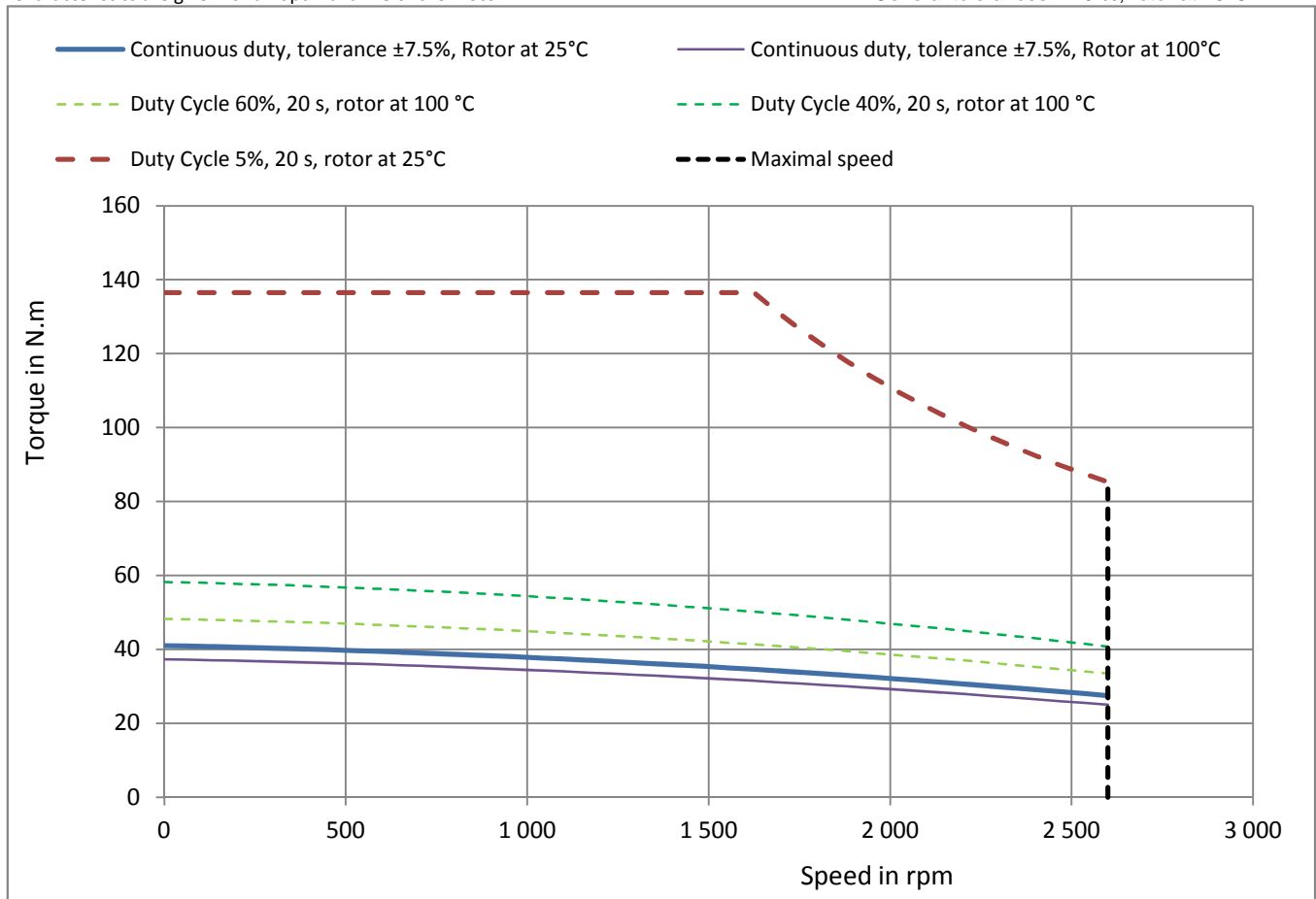
P _n	Rated power **	7.48	<i>kW</i>	Cooling type : Natural Air cooling Flange 400*400*12mm(ALU)
M _n	Rated torque **	27.5	<i>Nm</i>	
N _n	Rated speed	2600	<i>rpm</i>	
I _n	Rated current	22.5	<i>A_{rms}</i>	
U _n	Rated voltage *	203	<i>V_{rms}</i>	
U _R	Voltage of the mains	230	<i>V_{rms}</i>	
U	DC voltage supply when motor is loaded	310	<i>V</i>	
M _o	Low speed torque **	41	<i>N.m</i>	Environment : Ambient temperature : 40°C MAX Altitude : < 1000 m Thermal class : F (according to IEC 60034-1)
I _o	Permanent current at low speed	33	<i>A_{rms}</i>	
M _p	Max. torque **	136	<i>Nm</i>	
I _p	Max. current	132	<i>A_{rms}</i>	
N _p	Max. speed	2600	<i>rpm</i>	
J	Rotor inertia	0.0092	<i>kg.m²</i>	Efficiency : at rated torque : 94.8 % at 75% of rated torque : 94.4 %
K _e	Back emf constant at 1000 rpm (25°C)*	78.7	<i>V_{rms}</i>	
K _t	Torque sensitivity (25°C)	1.24	<i>Nm/A_{rms}</i>	
R _b	Winding resistance(25°C) *	0.157	<i>Ω</i>	
L	Winding inductance *	2.03	<i>mH</i>	

All data are given in typical values under standard conditions.

* Phase to Phase

Characteristics are given for an optimal drive of the motor.

** General tolerances ±7.5 %, rotor at 25°C



BRUSHLESS MOTOR
NX860EAF / NK860EKF
 ELECTRONIC DRIVE
DRIVE 28 / 110 Arms



No UL certification

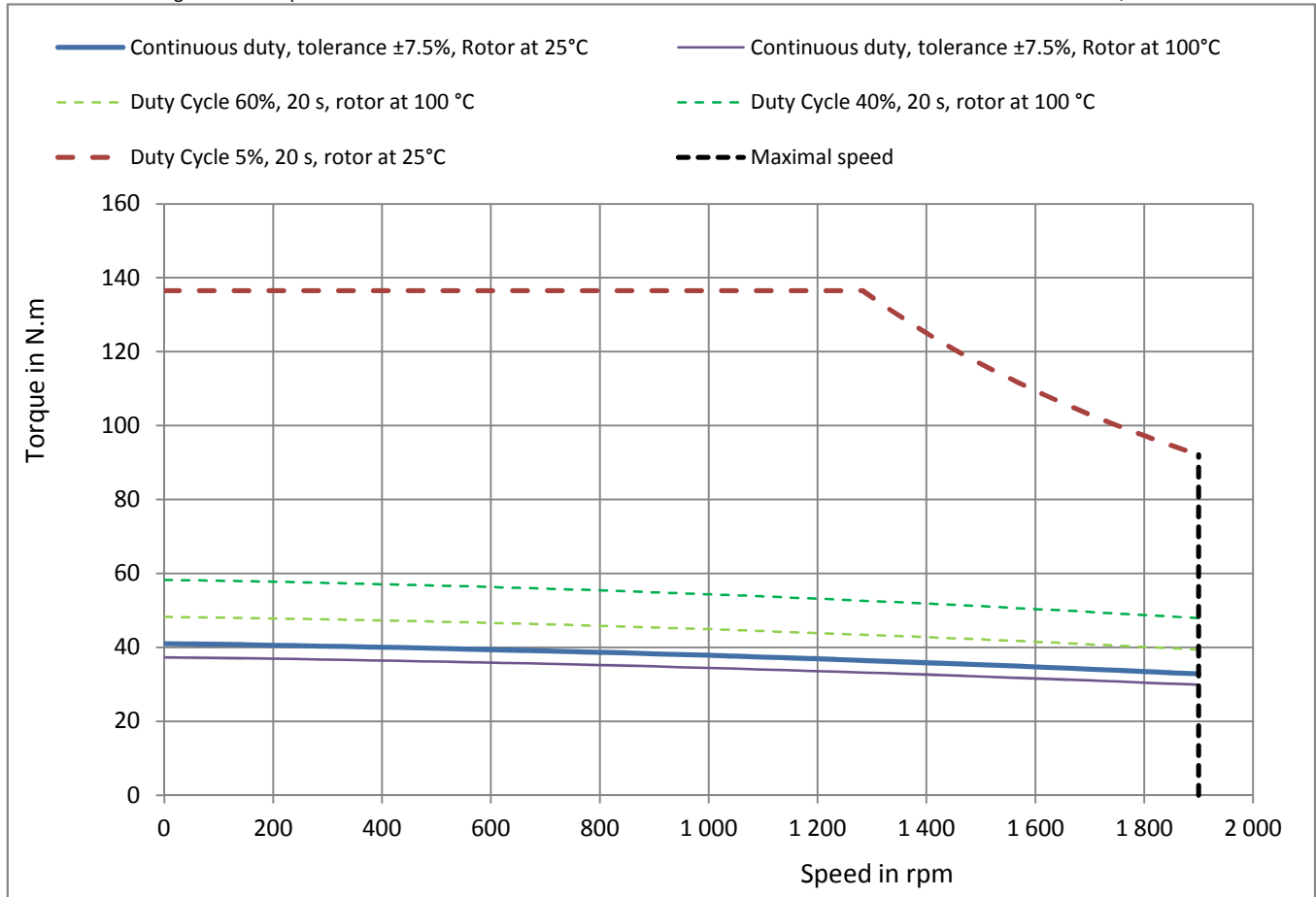
P _n	Rated power **	6.53	<i>kW</i>	Cooling type : Natural Air cooling Flange 400*400*12mm(ALU)
M _n	Rated torque **	32.8	<i>Nm</i>	
N _n	Rated speed	1900	<i>rpm</i>	
I _n	Rated current	21.8	<i>A_{rms}</i>	
U _n	Rated voltage *	185	<i>V_{rms}</i>	
UR	Voltage of the mains	230	<i>V_{rms}</i>	
U	DC voltage supply when motor is loaded	310	<i>V</i>	
M _o	Low speed torque **	41	<i>N.m</i>	Environment : Ambient temperature : 40°C MAX Altitude : < 1000 m Thermal class : F (according to IEC 60034-1)
I _o	Permanent current at low speed	27	<i>A_{rms}</i>	
M _p	Max. torque **	136	<i>Nm</i>	
I _p	Max. current	108	<i>A_{rms}</i>	
N _p	Max. speed	1900	<i>rpm</i>	
J	Rotor inertia	0.0092	<i>kg.m²</i>	Number of poles : 10
K _e	Back emf constant at 1000 rpm (25°C)*	96.1	<i>V_{rms}</i>	Efficiency : at rated torque : 94.3 % at 75% of rated torque : 94.6 %
K _t	Torque sensitivity (25°C)	1.52	<i>Nm/A_{rms}</i>	
R _b	Winding resistance(25°C) *	0.239	<i>Ω</i>	
L	Winding inductance *	3.04	<i>mH</i>	

All data are given in typical values under standard conditions.

* Phase to Phase

Characteristics are given for an optimal drive of the motor.

** General tolerances ±7.5 %, rotor at 25°C



BRUSHLESS MOTOR
NX210EAT / NK210EKT
 ELECTRONIC DRIVE
DRIVE 1.5 / 6 Arms



No UL certification

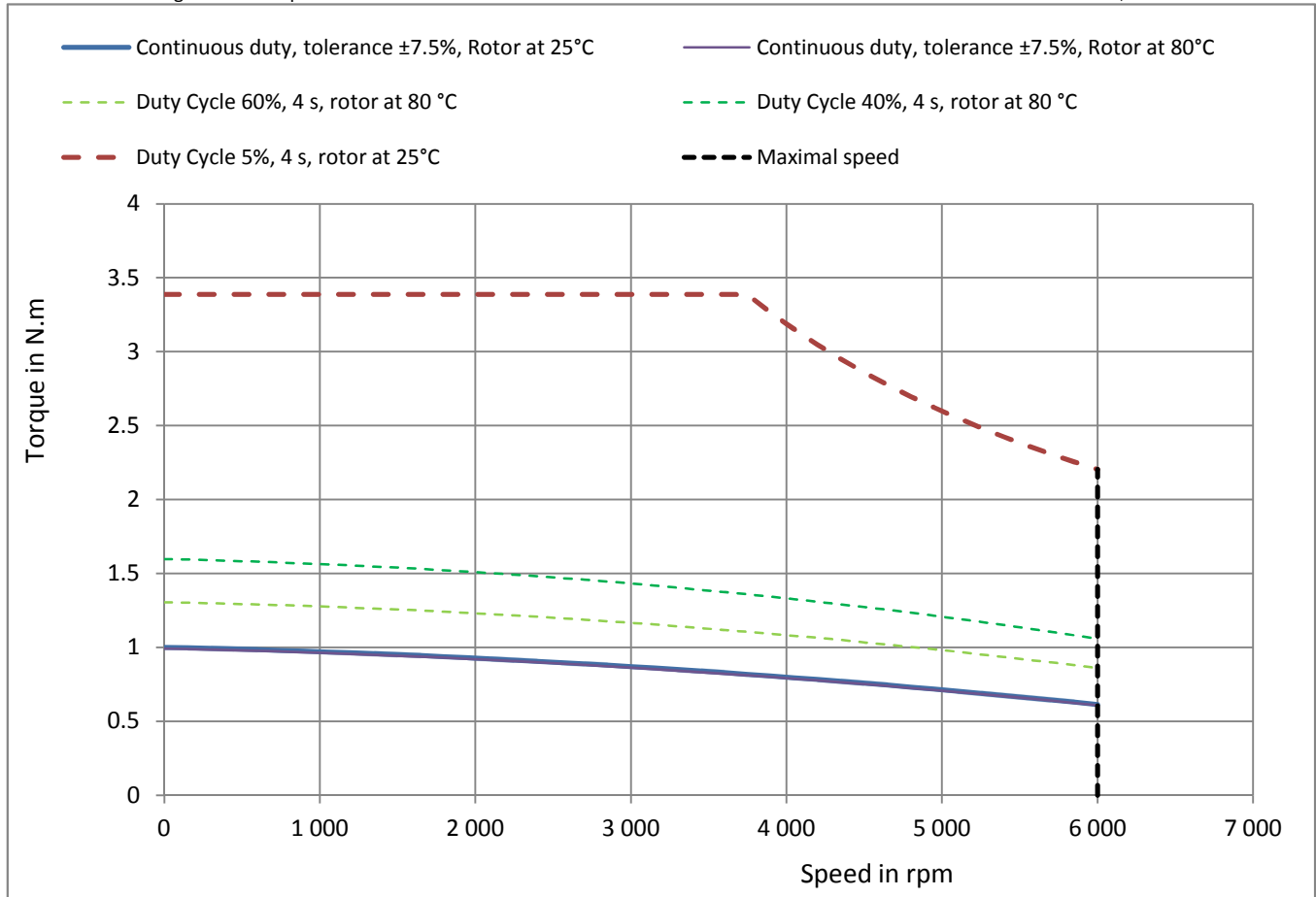
P _n	Rated power **	0.385	<i>kW</i>	Cooling type : Natural Air cooling Flange 280*280*8mm(ALU)
M _n	Rated torque **	0.613	<i>Nm</i>	
N _n	Rated speed	6000	<i>rpm</i>	
I _n	Rated current	0.887	<i>A_{rms}</i>	
U _n	Rated voltage *	295	<i>V_{rms}</i>	
U _R	Voltage of the mains	400	<i>V_{rms}</i>	
U	DC voltage supply when motor is loaded	540	<i>V</i>	
M _o	Low speed torque **	1	<i>N.m</i>	Environment : Ambient temperature : 40°C MAX Altitude : < 1000 m Thermal class : F (according to IEC 60034-1)
I _o	Permanent current at low speed	1.33	<i>A_{rms}</i>	
M _p	Max. torque **	3.39	<i>Nm</i>	
I _p	Max. current	5.35	<i>A_{rms}</i>	
N _p	Max. speed	6000	<i>rpm</i>	
J	Rotor inertia	0.38	<i>kg.cm²</i>	Number of poles : 10 Efficiency : at rated torque : 89 % at 75% of rated torque : 88.6 %
K _e	Back emf constant at 1000 rpm (25°C)*	48.6	<i>V_{rms}</i>	
K _t	Torque sensitivity (25°C)	0.749	<i>Nm/A_{rms}</i>	
R _b	Winding resistance(25°C) *	16.3	<i>Ω</i>	
L	Winding inductance *	35	<i>mH</i>	

All data are given in typical values under standard conditions.

* Phase to Phase

Characteristics are given for an optimal drive of the motor.

** General tolerances ±7.5 %, rotor at 25°C



BRUSHLESS MOTOR
NX310EAP / NK310EKP
 ELECTRONIC DRIVE
DRIVE 1.5 / 6 Arms



UL certified

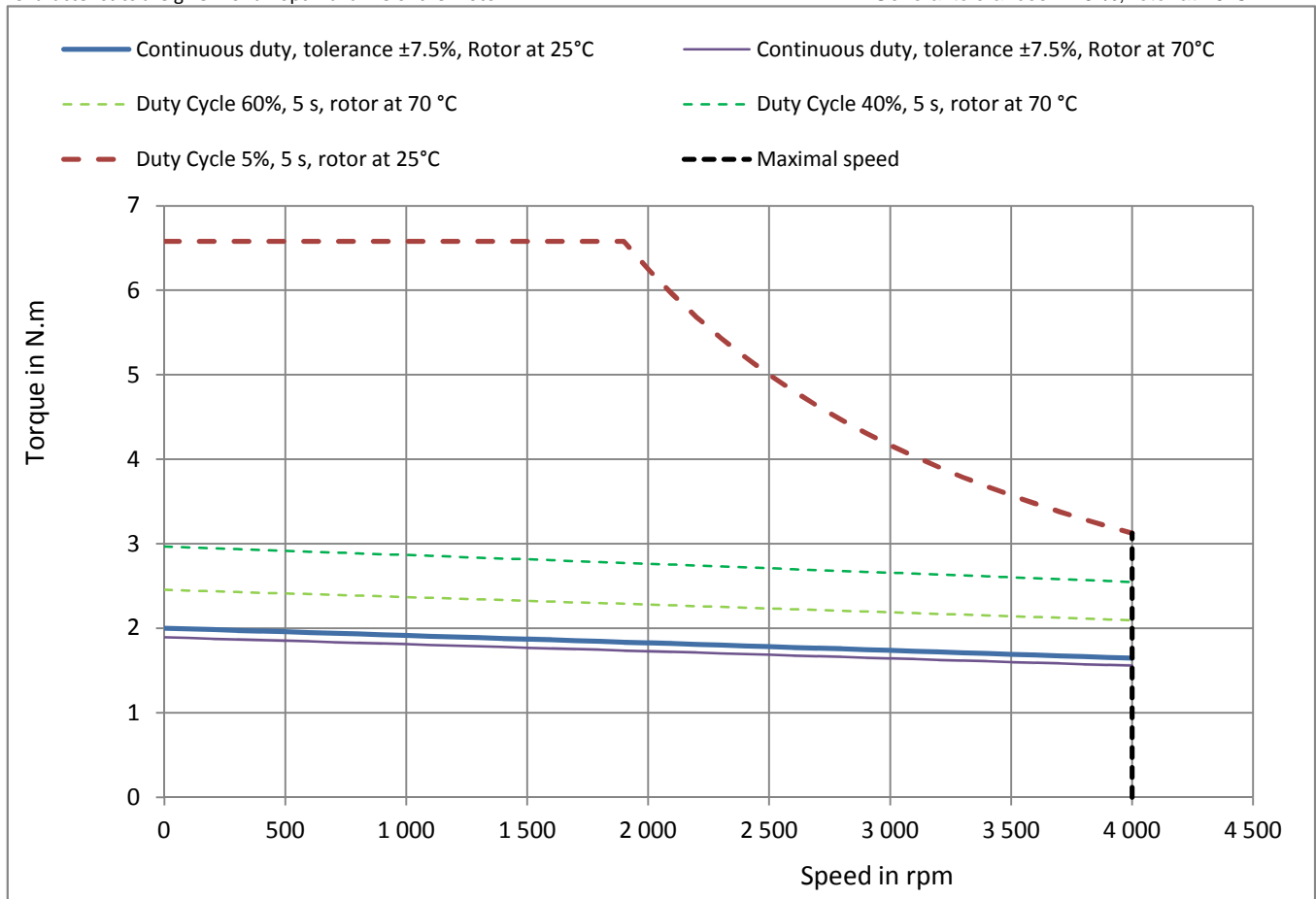
P _n	Rated power **	0.689	<i>kW</i>	Cooling type : Natural Air cooling Flange 400*400*12mm(ALU)
M _n	Rated torque **	1.65	<i>Nm</i>	
N _n	Rated speed	4000	<i>rpm</i>	
I _n	Rated current	1.18	<i>A_{rms}</i>	
U _n	Rated voltage *	394	<i>V_{rms}</i>	
U _R	Voltage of the mains	400	<i>V_{rms}</i>	
U	DC voltage supply when motor is loaded	540	<i>V</i>	
M _o	Low speed torque **	2	<i>N.m</i>	Environment : Ambient temperature : 40°C MAX Altitude : < 1000 m Thermal class : F (according to IEC 60034-1)
I _o	Permanent current at low speed	1.39	<i>A_{rms}</i>	
M _p	Max. torque **	6.58	<i>Nm</i>	
I _p	Max. current	5.56	<i>A_{rms}</i>	
N _p	Max. speed	4000	<i>rpm</i>	
J	Rotor inertia	0.79	<i>kg.cm²</i>	Efficiency : at rated torque : 89.2 % at 75% of rated torque : 90.4 %
K _e	Back emf constant at 1000 rpm (25°C)*	88.9	<i>V_{rms}</i>	
K _t	Torque sensitivity (25°C)	1.44	<i>Nm/A_{rms}</i>	
R _b	Winding resistance(25°C) *	20.7	<i>Ω</i>	
L	Winding inductance *	62	<i>mH</i>	

All data are given in typical values under standard conditions.

* Phase to Phase

Characteristics are given for an optimal drive of the motor.

** General tolerances ±7.5 %, rotor at 25°C



BRUSHLESS MOTOR
NX420EAP / NK420EKP
 ELECTRONIC DRIVE
DRIVE 3 / 11 Arms



UL certified

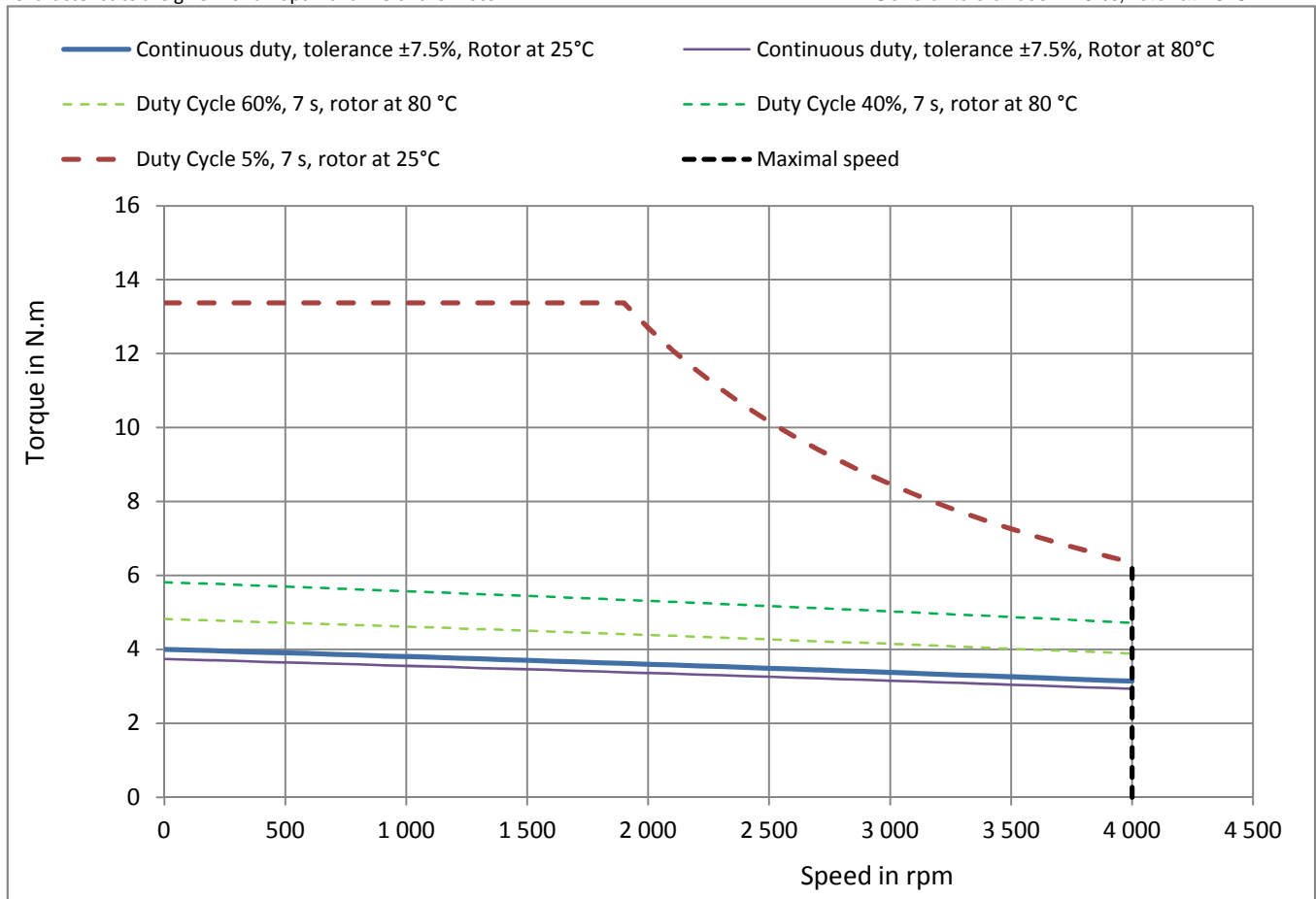
P _n	Rated power **	1.31	<i>kW</i>	Cooling type : Natural Air cooling Flange 400*400*12mm(ALU)
M _n	Rated torque **	3.14	<i>Nm</i>	
N _n	Rated speed	4000	<i>rpm</i>	
I _n	Rated current	2.16	<i>A_{rms}</i>	
U _n	Rated voltage *	393	<i>V_{rms}</i>	
UR	Voltage of the mains	400	<i>V_{rms}</i>	
U	DC voltage supply when motor is loaded	540	<i>V</i>	
M _o	Low speed torque **	4	<i>N.m</i>	Environment : Ambient temperature : 40°C MAX Altitude : < 1000 m Thermal class : F (according to IEC 60034-1)
I _o	Permanent current at low speed	2.71	<i>A_{rms}</i>	
M _p	Max. torque **	13.4	<i>Nm</i>	
I _p	Max. current	10.9	<i>A_{rms}</i>	
N _p	Max. speed	4000	<i>rpm</i>	
J	Rotor inertia	0.00029	<i>kg.m²</i>	Number of poles : 10
Ke	Back emf constant at 1000 rpm (25°C)*	89.9	<i>V_{rms}</i>	Efficiency : at rated torque : 92 % at 75% of rated torque : 92.3 %
Kt	Torque sensitivity (25°C)	1.48	<i>Nm/A_{rms}</i>	
R _b	Winding resistance(25°C) *	7.2	<i>Ω</i>	
L	Winding inductance *	33	<i>mH</i>	

All data are given in typical values under standard conditions.

* Phase to Phase

Characteristics are given for an optimal drive of the motor.

** General tolerances ±7.5 %, rotor at 25°C



BRUSHLESS MOTOR
NX420EAV / NK420EKV
 ELECTRONIC DRIVE
DRIVE 1.5 / 6 Arms



UL certified

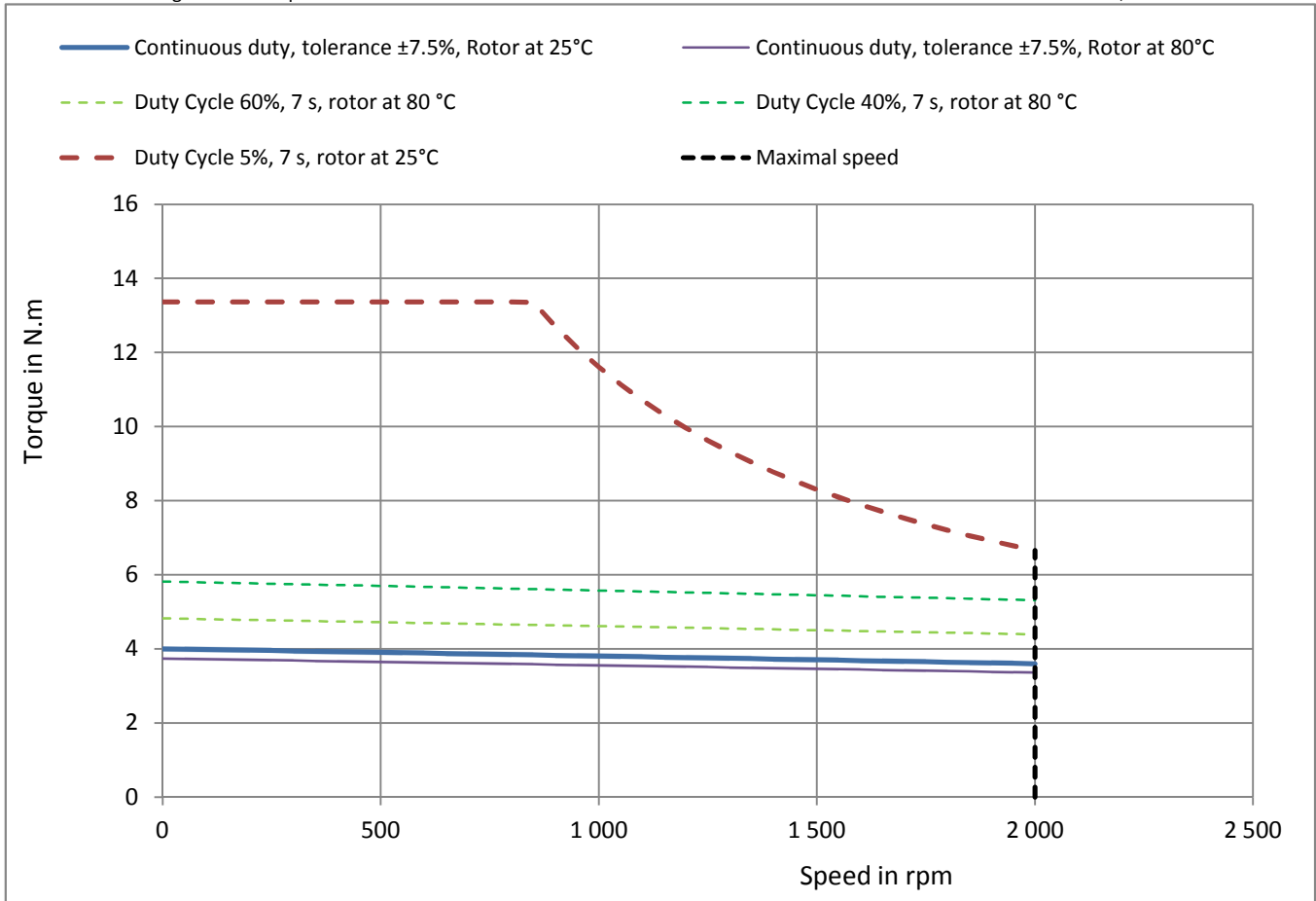
P _n	Rated power **	0.753	<i>kW</i>	Cooling type : Natural Air cooling Flange 400*400*12mm(ALU)
M _n	Rated torque **	3.6	<i>Nm</i>	
N _n	Rated speed	2000	<i>rpm</i>	
I _n	Rated current	1.23	<i>A_{rms}</i>	
U _n	Rated voltage *	416	<i>V_{rms}</i>	
U _R	Voltage of the mains	400	<i>V_{rms}</i>	
U	DC voltage supply when motor is loaded	540	<i>V</i>	
M _o	Low speed torque **	4	<i>N.m</i>	Environment : Ambient temperature : 40°C MAX Altitude : < 1000 m Thermal class : F (according to IEC 60034-1)
I _o	Permanent current at low speed	1.36	<i>A_{rms}</i>	
M _p	Max. torque **	13.4	<i>Nm</i>	
I _p	Max. current	5.47	<i>A_{rms}</i>	
N _p	Max. speed	2000	<i>rpm</i>	
J	Rotor inertia	0.00029	<i>kg.m²</i>	Efficiency : at rated torque : 87.9 % at 75% of rated torque : 90.3 %
K _e	Back emf constant at 1000 rpm (25°C)*	179	<i>V_{rms}</i>	
K _t	Torque sensitivity (25°C)	2.94	<i>Nm/A_{rms}</i>	
R _b	Winding resistance(25°C) *	28.4	<i>Ω</i>	
L	Winding inductance *	131	<i>mH</i>	

All data are given in typical values under standard conditions.

* Phase to Phase

Characteristics are given for an optimal drive of the motor.

** General tolerances ±7.5 %, rotor at 25°C



BRUSHLESS MOTOR
NX430EAL / NK430EKL
 ELECTRONIC DRIVE
DRIVE 4 / 16 Arms



UL certified

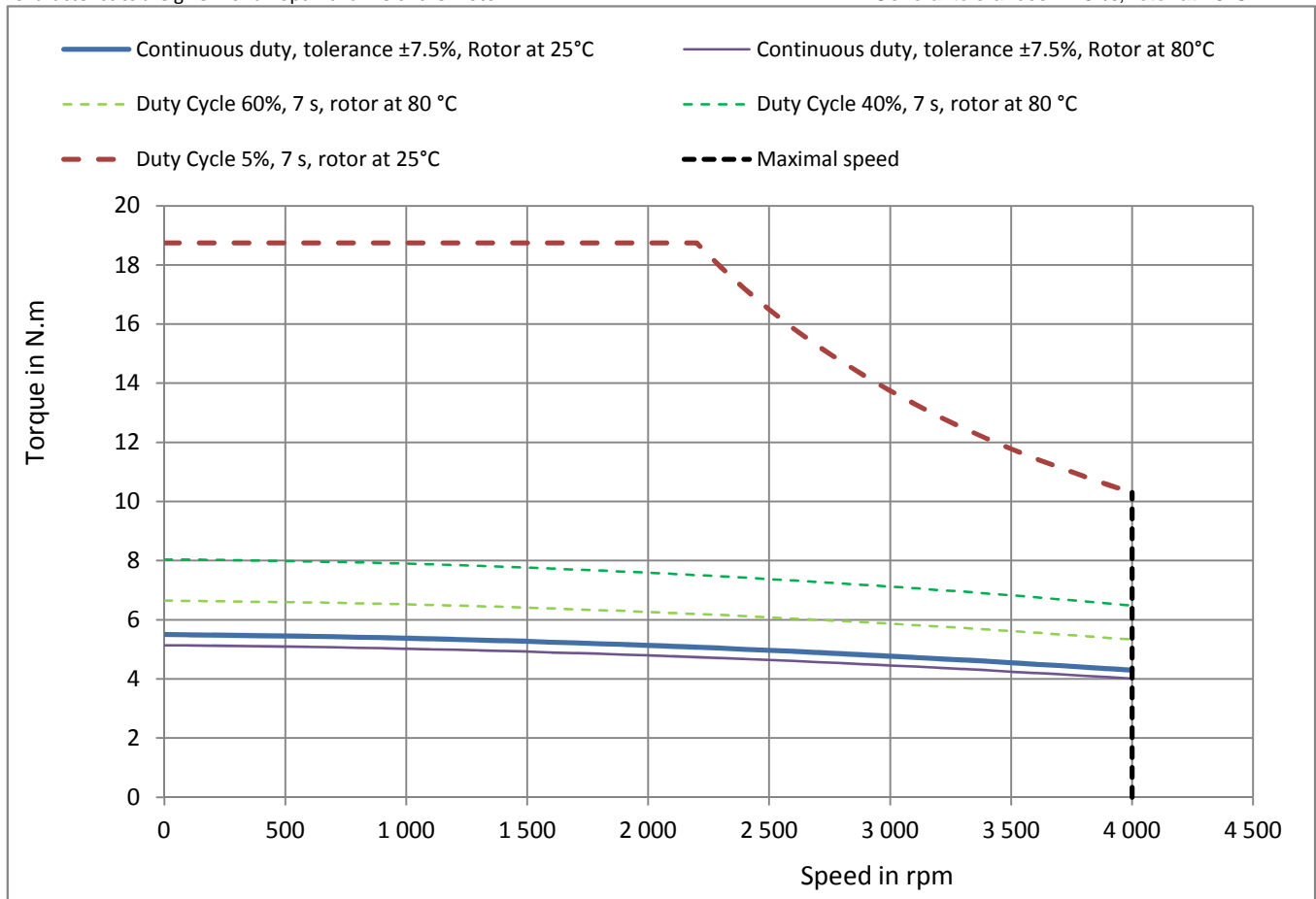
P _n	Rated power **	1.8	<i>kW</i>	Cooling type : Natural Air cooling Flange 400*400*12mm(ALU)
M _n	Rated torque **	4.29	<i>Nm</i>	
N _n	Rated speed	4000	<i>rpm</i>	
I _n	Rated current	3.01	<i>A_{rms}</i>	
U _n	Rated voltage *	380	<i>V_{rms}</i>	
U _R	Voltage of the mains	400	<i>V_{rms}</i>	
U	DC voltage supply when motor is loaded	540	<i>V</i>	
M _o	Low speed torque **	5.5	<i>N.m</i>	Environment : Ambient temperature : 40°C MAX Altitude : < 1000 m Thermal class : F (according to IEC 60034-1)
I _o	Permanent current at low speed	3.78	<i>A_{rms}</i>	
M _p	Max. torque **	18.7	<i>Nm</i>	
I _p	Max. current	15.1	<i>A_{rms}</i>	
N _p	Max. speed	4000	<i>rpm</i>	
J	Rotor inertia	0.00043	<i>kg.m²</i>	
K _e	Back emf constant at 1000 rpm (25°C)*	90.9	<i>V_{rms}</i>	Efficiency : at rated torque : 92.8 % at 75% of rated torque : 92.9 %
K _t	Torque sensitivity (25°C)	1.45	<i>Nm/A_{rms}</i>	
R _b	Winding resistance(25°C) *	4.22	<i>Ω</i>	
L	Winding inductance *	21	<i>mH</i>	

All data are given in typical values under standard conditions.

* Phase to Phase

Characteristics are given for an optimal drive of the motor.

** General tolerances ±7.5 %, rotor at 25°C



BRUSHLESS MOTOR
NX430EAP / NK430EKP
 ELECTRONIC DRIVE
DRIVE 3 / 12 Arms



UL certified

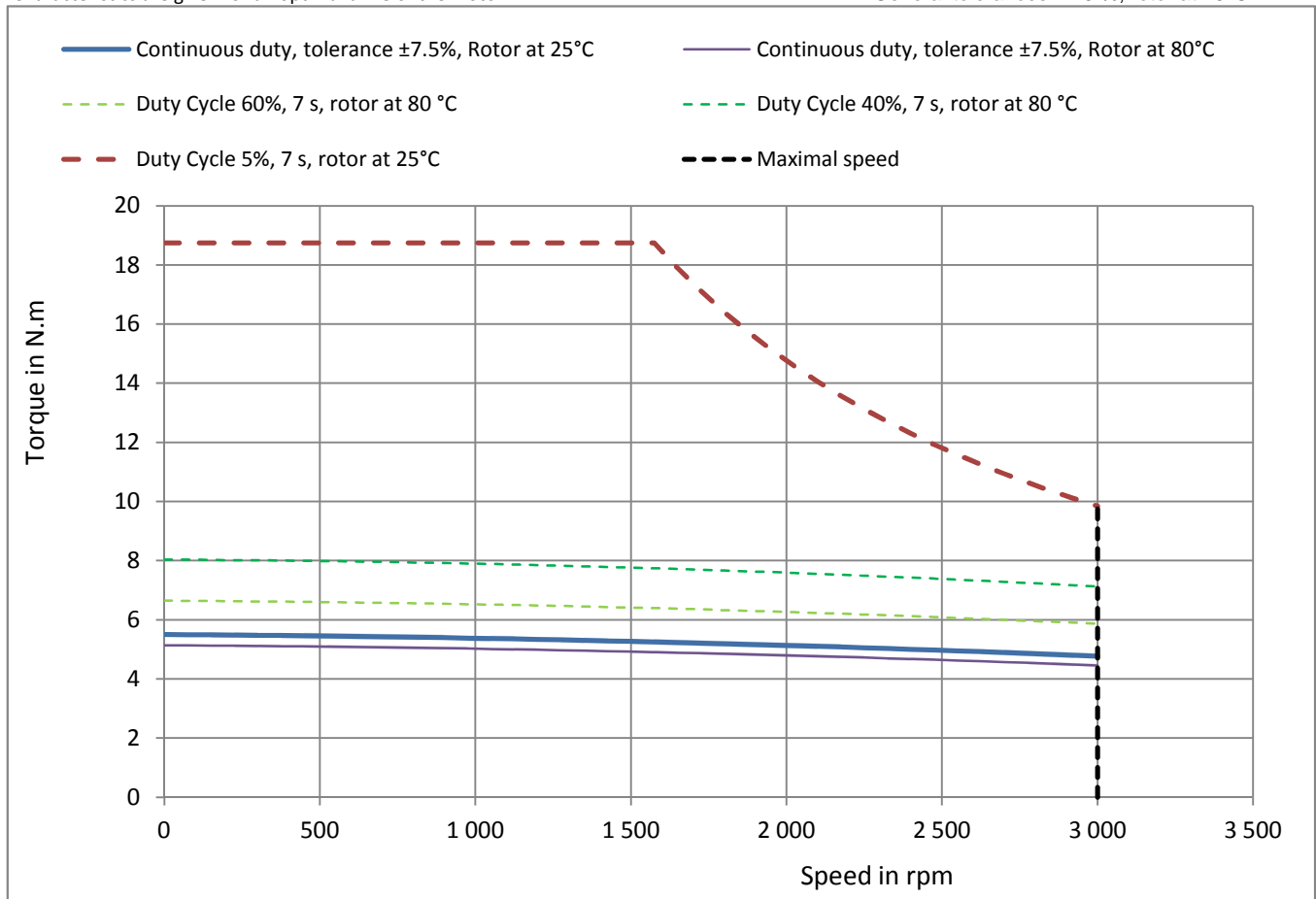
P _n	Rated power **	1.5	<i>kW</i>	Cooling type : Natural Air cooling Flange 400*400*12mm(ALU)
M _n	Rated torque **	4.77	<i>Nm</i>	
N _n	Rated speed	3000	<i>rpm</i>	
I _n	Rated current	2.48	<i>A_{rms}</i>	
U _n	Rated voltage *	391	<i>V_{rms}</i>	
U _R	Voltage of the mains	400	<i>V_{rms}</i>	
U	DC voltage supply when motor is loaded	540	<i>V</i>	
M _o	Low speed torque **	5.5	<i>N.m</i>	Environment : Ambient temperature : 40°C MAX Altitude : < 1000 m Thermal class : F (according to IEC 60034-1)
I _o	Permanent current at low speed	2.82	<i>A_{rms}</i>	
M _p	Max. torque **	18.7	<i>Nm</i>	
I _p	Max. current	11.3	<i>A_{rms}</i>	
N _p	Max. speed	3000	<i>rpm</i>	
J	Rotor inertia	0.00043	<i>kg.m²</i>	Efficiency : at rated torque : 92 % at 75% of rated torque : 92.8 %
K _e	Back emf constant at 1000 rpm (25°C)*	122	<i>V_{rms}</i>	
K _t	Torque sensitivity (25°C)	1.95	<i>Nm/A_{rms}</i>	
R _b	Winding resistance(25°C) *	7.26	<i>Ω</i>	
L	Winding inductance *	37.8	<i>mH</i>	

All data are given in typical values under standard conditions.

* Phase to Phase

Characteristics are given for an optimal drive of the motor.

** General tolerances ±7.5 %, rotor at 25°C



BRUSHLESS MOTOR
NX430EAV / NK430EKV
 ELECTRONIC DRIVE
DRIVE 1.5 / 6 Arms



UL certified

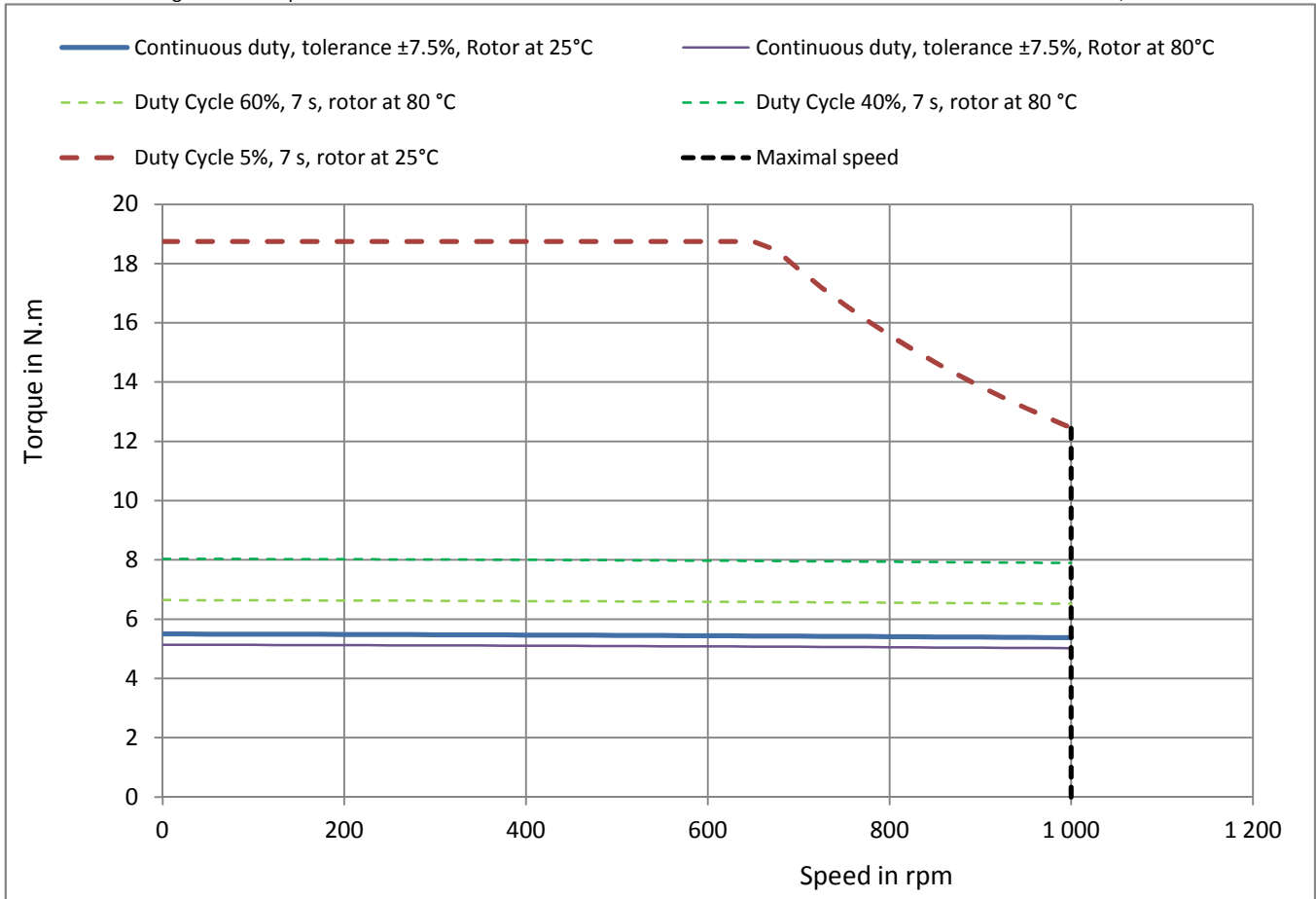
P _n	Rated power **	0.563	<i>kW</i>	Cooling type : Natural Air cooling Flange 400*400*12mm(ALU)
M _n	Rated torque **	5.38	<i>Nm</i>	
N _n	Rated speed	1000	<i>rpm</i>	
I _n	Rated current	1.38	<i>A_{rms}</i>	
U _n	Rated voltage *	295	<i>V_{rms}</i>	
U _R	Voltage of the mains	400	<i>V_{rms}</i>	
U	DC voltage supply when motor is loaded	540	<i>V</i>	
M _o	Low speed torque **	5.5	<i>N.m</i>	Environment : Ambient temperature : 40°C MAX Altitude : < 1000 m Thermal class : F (according to IEC 60034-1)
I _o	Permanent current at low speed	1.41	<i>A_{rms}</i>	
M _p	Max. torque **	18.7	<i>Nm</i>	
I _p	Max. current	5.64	<i>A_{rms}</i>	
N _p	Max. speed	1000	<i>rpm</i>	
J	Rotor inertia	0.00043	<i>kg.m²</i>	Number of poles : 10
K _e	Back emf constant at 1000 rpm (25°C)*	244	<i>V_{rms}</i>	Efficiency : at rated torque : 82.3 % at 75% of rated torque : 86.6 %
K _t	Torque sensitivity (25°C)	3.9	<i>Nm/A_{rms}</i>	
R _b	Winding resistance(25°C) *	29	<i>Ω</i>	
L	Winding inductance *	151	<i>mH</i>	

All data are given in typical values under standard conditions.

* Phase to Phase

Characteristics are given for an optimal drive of the motor.

** General tolerances ±7.5 %, rotor at 25°C



BRUSHLESS MOTOR
NX620EAJ / NK620EKJ
 ELECTRONIC DRIVE
DRIVE 10 / 40 Arms



No UL certification

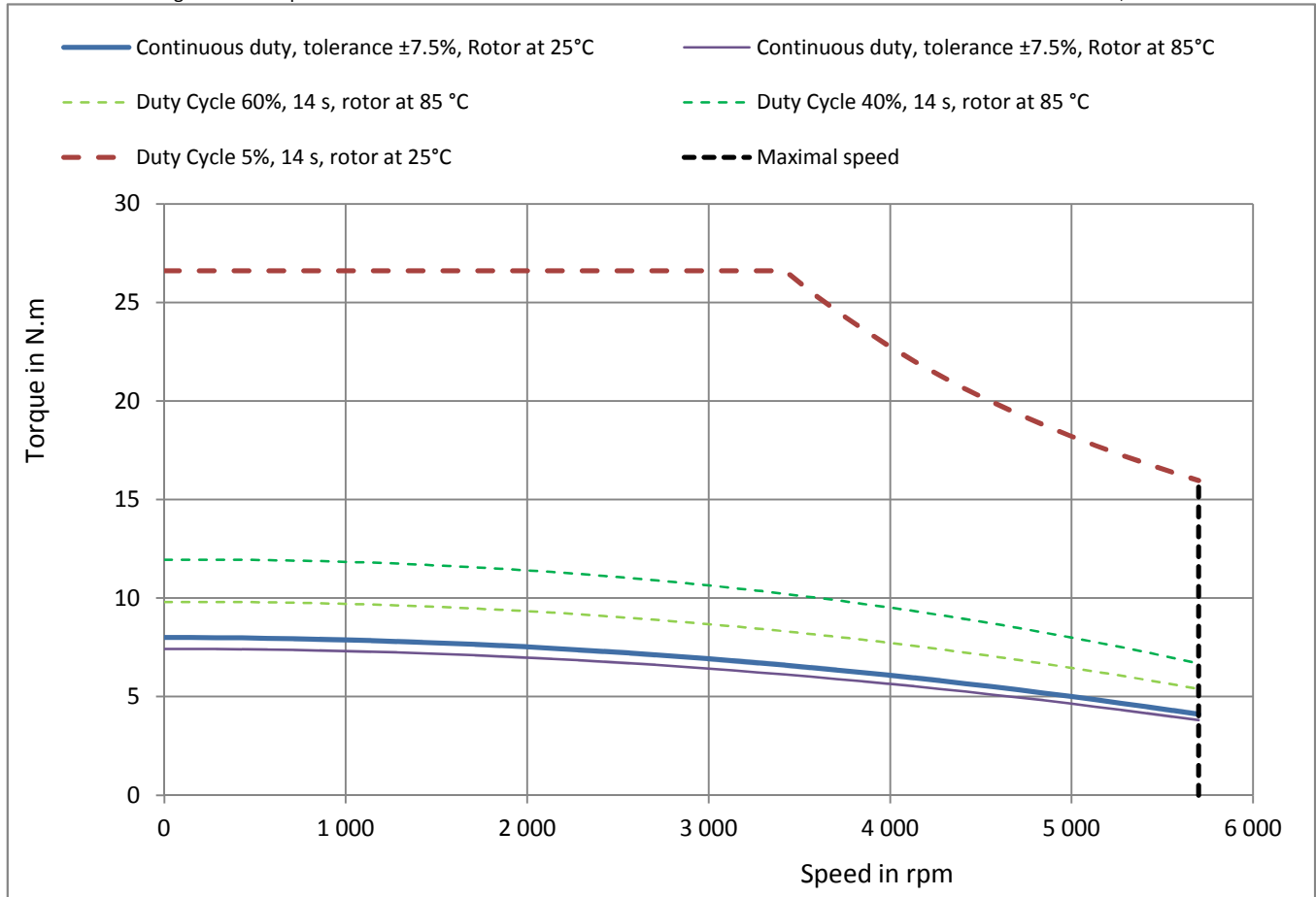
P _n	Rated power **	2.45	<i>kW</i>	Cooling type : Natural Air cooling Flange 400*400*12mm(ALU)
M _n	Rated torque **	4.1	<i>Nm</i>	
N _n	Rated speed	5700	<i>rpm</i>	
I _n	Rated current	5.56	<i>A_{rms}</i>	
U _n	Rated voltage *	281	<i>V_{rms}</i>	
UR	Voltage of the mains	400	<i>V_{rms}</i>	
U	DC voltage supply when motor is loaded	540	<i>V</i>	
M _o	Low speed torque **	8	<i>N.m</i>	Environment : Ambient temperature : 40°C MAX Altitude : < 1000 m Thermal class : F (according to IEC 60034-1)
I _o	Permanent current at low speed	9.89	<i>A_{rms}</i>	
M _p	Max. torque **	26.6	<i>Nm</i>	
I _p	Max. current	39.5	<i>A_{rms}</i>	
N _p	Max. speed	5700	<i>rpm</i>	
J	Rotor inertia	0.00098	<i>kg.m²</i>	Number of poles : 10
Ke	Back emf constant at 1000 rpm (25°C)*	51.3	<i>V_{rms}</i>	Efficiency : at rated torque : 93.8 % at 75% of rated torque : 92.6 %
Kt	Torque sensitivity (25°C)	0.809	<i>Nm/A_{rms}</i>	
R _b	Winding resistance(25°C) *	0.603	<i>Ω</i>	
L	Winding inductance *	5.52	<i>mH</i>	

All data are given in typical values under standard conditions.

* Phase to Phase

Characteristics are given for an optimal drive of the motor.

** General tolerances ±7.5 %, rotor at 25°C



BRUSHLESS MOTOR
NX620EAR / NK620EKR
 ELECTRONIC DRIVE
DRIVE 6 / 22 Arms



UL certified

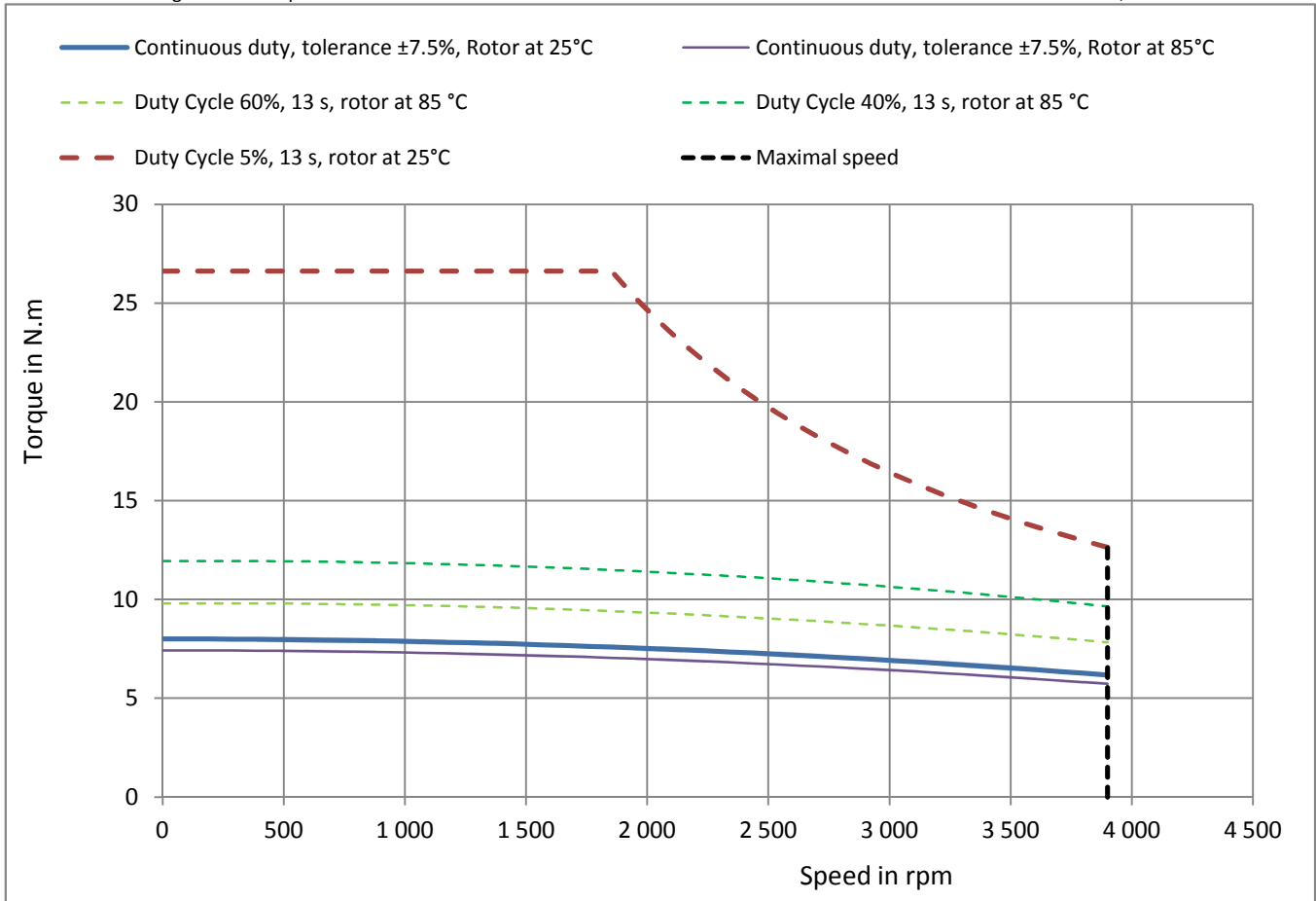
P _n	Rated power **	2.52	<i>kW</i>	Cooling type : Natural Air cooling Flange 400*400*12mm(ALU)
M _n	Rated torque **	6.17	<i>Nm</i>	
N _n	Rated speed	3900	<i>rpm</i>	
I _n	Rated current	4.25	<i>A_{rms}</i>	
U _n	Rated voltage *	382	<i>V_{rms}</i>	
U _R	Voltage of the mains	400	<i>V_{rms}</i>	
U	DC voltage supply when motor is loaded	540	<i>V</i>	
M _o	Low speed torque **	8	<i>N.m</i>	Environment : Ambient temperature : 40°C MAX Altitude : < 1000 m Thermal class : F (according to IEC 60034-1)
I _o	Permanent current at low speed	5.31	<i>A_{rms}</i>	
M _p	Max. torque **	26.6	<i>Nm</i>	
I _p	Max. current	21.2	<i>A_{rms}</i>	
N _p	Max. speed	3900	<i>rpm</i>	
J	Rotor inertia	0.00098	<i>kg.m²</i>	Efficiency : at rated torque : 94.2 % at 75% of rated torque : 94.1 %
K _e	Back emf constant at 1000 rpm (25°C)*	95.7	<i>V_{rms}</i>	
K _t	Torque sensitivity (25°C)	1.51	<i>Nm/A_{rms}</i>	
R _b	Winding resistance(25°C) *	2.24	<i>Ω</i>	
L	Winding inductance *	19.2	<i>mH</i>	

All data are given in typical values under standard conditions.

* Phase to Phase

Characteristics are given for an optimal drive of the motor.

** General tolerances ±7.5 %, rotor at 25°C



BRUSHLESS MOTOR
NX620EAV / NK620EKV
 ELECTRONIC DRIVE
DRIVE 3 / 12 Arms



UL certified

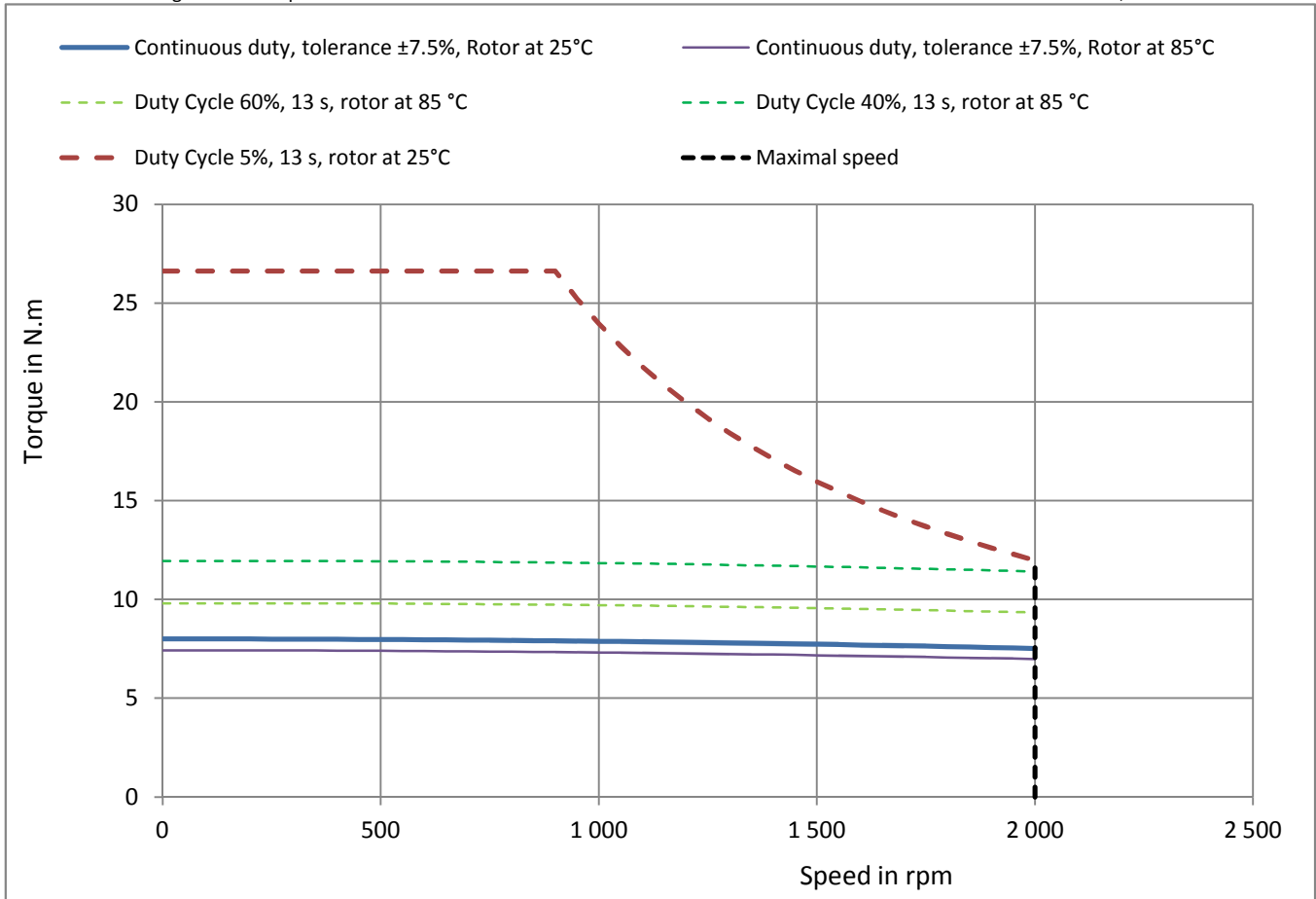
P _n	Rated power **	1.57	<i>kW</i>	Cooling type : Natural Air cooling Flange 400*400*12mm(ALU)
M _n	Rated torque **	7.52	<i>Nm</i>	
N _n	Rated speed	2000	<i>rpm</i>	
I _n	Rated current	2.69	<i>A_{rms}</i>	
U _n	Rated voltage *	394	<i>V_{rms}</i>	
UR	Voltage of the mains	400	<i>V_{rms}</i>	
U	DC voltage supply when motor is loaded	540	<i>V</i>	
M _o	Low speed torque **	8	<i>N.m</i>	Environment : Ambient temperature : 40°C MAX Altitude : < 1000 m Thermal class : F (according to IEC 60034-1)
I _o	Permanent current at low speed	2.83	<i>A_{rms}</i>	
M _p	Max. torque **	26.6	<i>Nm</i>	
I _p	Max. current	11.3	<i>A_{rms}</i>	
N _p	Max. speed	2000	<i>rpm</i>	
J	Rotor inertia	0.00098	<i>kg.m²</i>	Number of poles : 10
K _e	Back emf constant at 1000 rpm (25°C)*	180	<i>V_{rms}</i>	Efficiency : at rated torque : 91.4 % at 75% of rated torque : 92.8 %
K _t	Torque sensitivity (25°C)	2.83	<i>Nm/A_{rms}</i>	
R _b	Winding resistance(25°C) *	7.9	<i>Ω</i>	
L	Winding inductance *	67.6	<i>mH</i>	

All data are given in typical values under standard conditions.

* Phase to Phase

Characteristics are given for an optimal drive of the motor.

** General tolerances ±7.5 %, rotor at 25°C



BRUSHLESS MOTOR
NX630EAN / NK630EKN
 ELECTRONIC DRIVE
DRIVE 8 / 32 Arms



UL certified

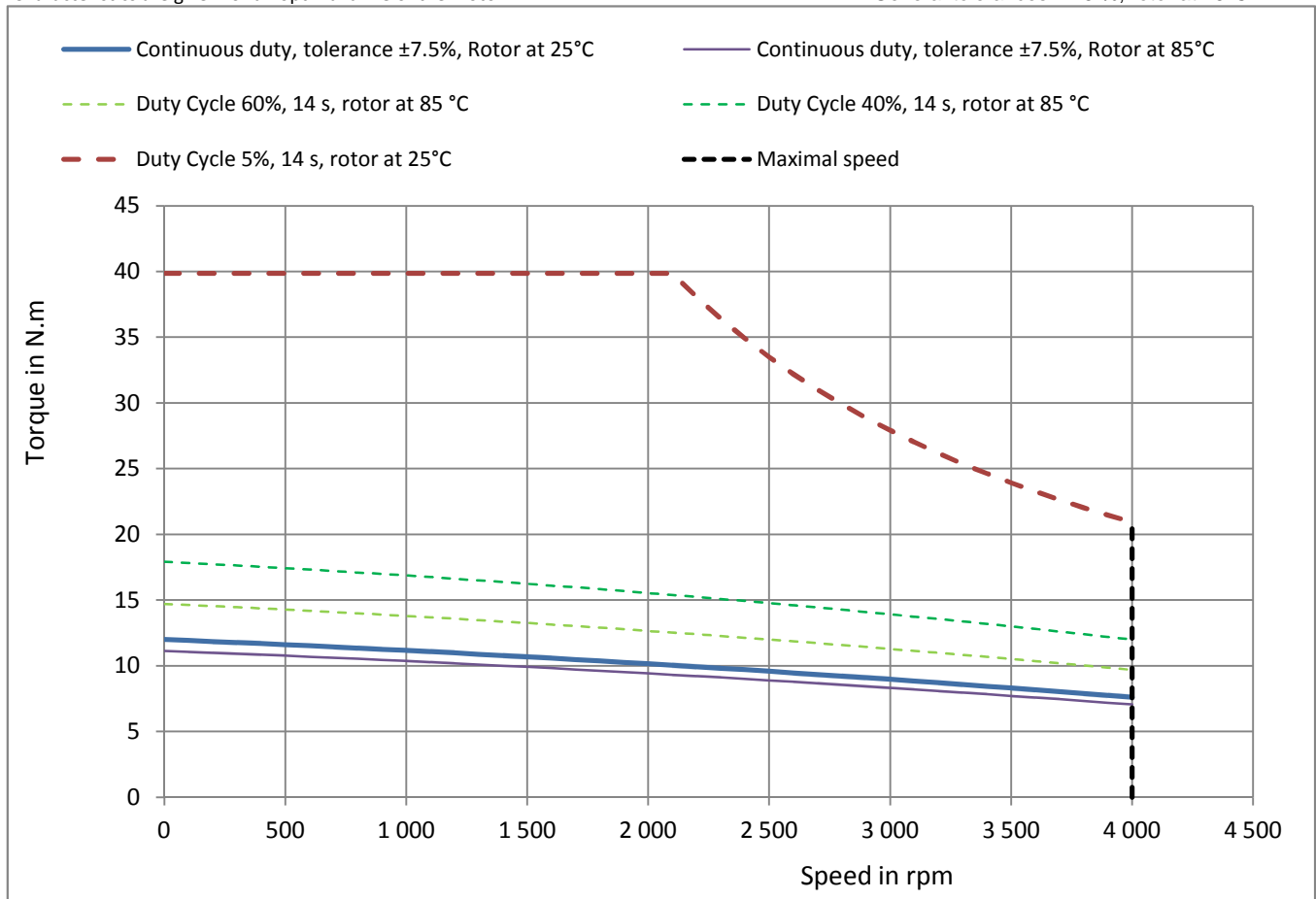
P _n	Rated power **	3.18	<i>kW</i>	Cooling type : Natural Air cooling Flange 400*400*12mm(ALU)
M _n	Rated torque **	7.6	<i>Nm</i>	
N _n	Rated speed	4000	<i>rpm</i>	
I _n	Rated current	5.3	<i>A_{rms}</i>	
U _n	Rated voltage *	374	<i>V_{rms}</i>	
U _R	Voltage of the mains	400	<i>V_{rms}</i>	
U	DC voltage supply when motor is loaded	540	<i>V</i>	
M _o	Low speed torque **	12	<i>N.m</i>	Environment : Ambient temperature : 40°C MAX Altitude : < 1000 m Thermal class : F (according to IEC 60034-1)
I _o	Permanent current at low speed	7.93	<i>A_{rms}</i>	
M _p	Max. torque **	39.9	<i>Nm</i>	
I _p	Max. current	31.6	<i>A_{rms}</i>	
N _p	Max. speed	4000	<i>rpm</i>	
J	Rotor inertia	0.0015	<i>kg.m²</i>	Number of poles : 10
K _e	Back emf constant at 1000 rpm (25°C)*	91.6	<i>V_{rms}</i>	Efficiency : at rated torque : 94.4 % at 75% of rated torque : 93.7 %
K _t	Torque sensitivity (25°C)	1.51	<i>Nm/A_{rms}</i>	
R _b	Winding resistance(25°C) *	1.12	<i>Ω</i>	
L	Winding inductance *	10.9	<i>mH</i>	

All data are given in typical values under standard conditions.

* Phase to Phase

Characteristics are given for an optimal drive of the motor.

** General tolerances ±7.5 %, rotor at 25°C



BRUSHLESS MOTOR
NX630EAR / NK630EKR
 ELECTRONIC DRIVE
DRIVE 6 / 22 Arms



UL certified

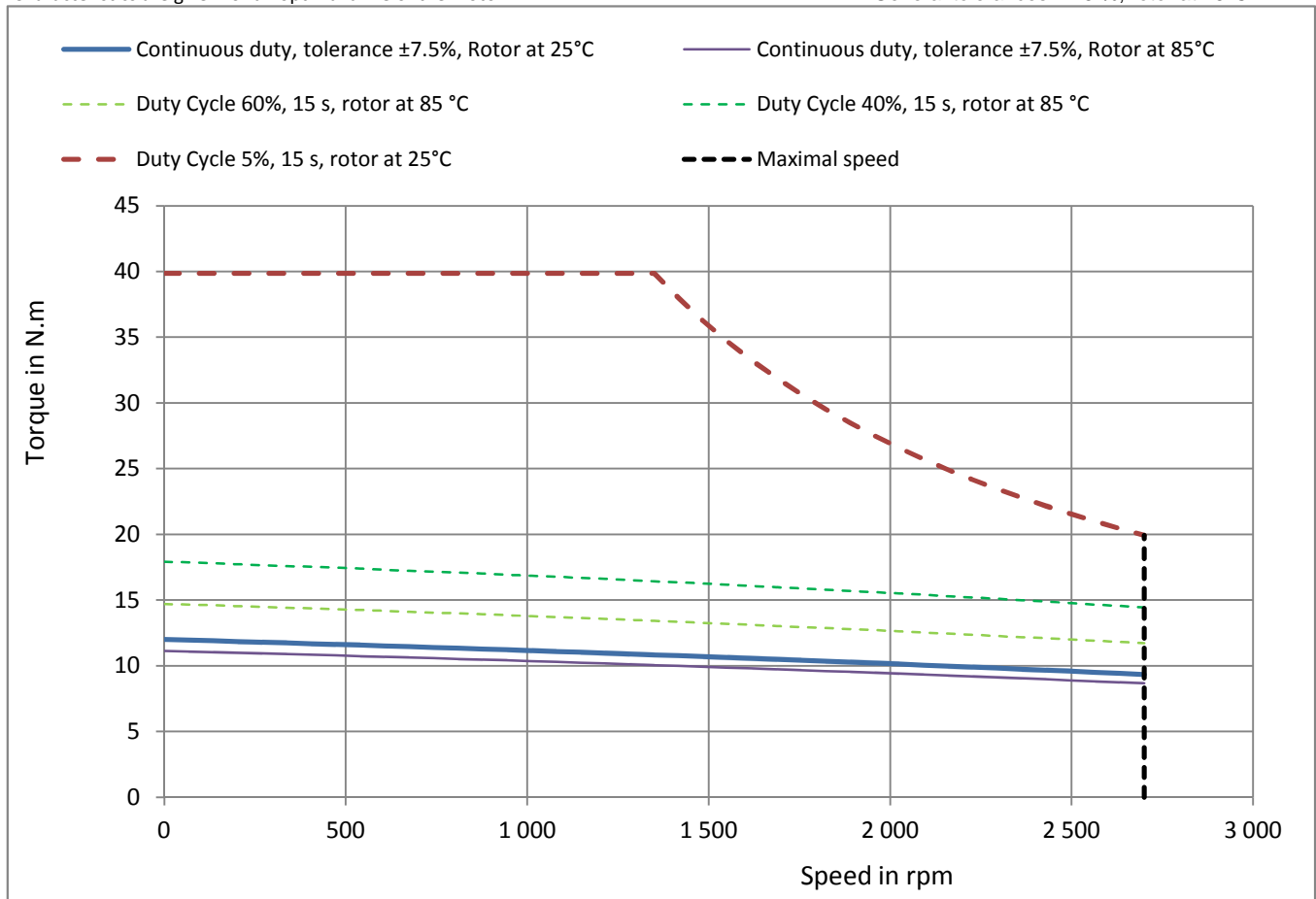
P _n	Rated power **	2.64	<i>kW</i>	Cooling type : Natural Air cooling Flange 400*400*12mm(ALU)
M _n	Rated torque **	9.34	<i>Nm</i>	
N _n	Rated speed	2700	<i>rpm</i>	
I _n	Rated current	4.2	<i>A_{rms}</i>	
U _n	Rated voltage *	395	<i>V_{rms}</i>	
U _R	Voltage of the mains	400	<i>V_{rms}</i>	
U	DC voltage supply when motor is loaded	540	<i>V</i>	
M _o	Low speed torque **	12	<i>N.m</i>	Environment : Ambient temperature : 40°C MAX Altitude : < 1000 m Thermal class : F (according to IEC 60034-1)
I _o	Permanent current at low speed	5.25	<i>A_{rms}</i>	
M _p	Max. torque **	39.9	<i>Nm</i>	
I _p	Max. current	21	<i>A_{rms}</i>	
N _p	Max. speed	2700	<i>rpm</i>	
J	Rotor inertia	0.0015	<i>kg.m²</i>	Number of poles : 10
K _e	Back emf constant at 1000 rpm (25°C)*	138	<i>V_{rms}</i>	Efficiency : at rated torque : 94.3 % at 75% of rated torque : 94.3 %
K _t	Torque sensitivity (25°C)	2.29	<i>Nm/A_{rms}</i>	
R _b	Winding resistance(25°C) *	2.43	<i>Ω</i>	
L	Winding inductance *	24.9	<i>mH</i>	

All data are given in typical values under standard conditions.

* Phase to Phase

Characteristics are given for an optimal drive of the motor.

** General tolerances ±7.5 %, rotor at 25°C



BRUSHLESS MOTOR
NX630EAV / NK630EKV
 ELECTRONIC DRIVE
DRIVE 3 / 11 Arms



UL certified

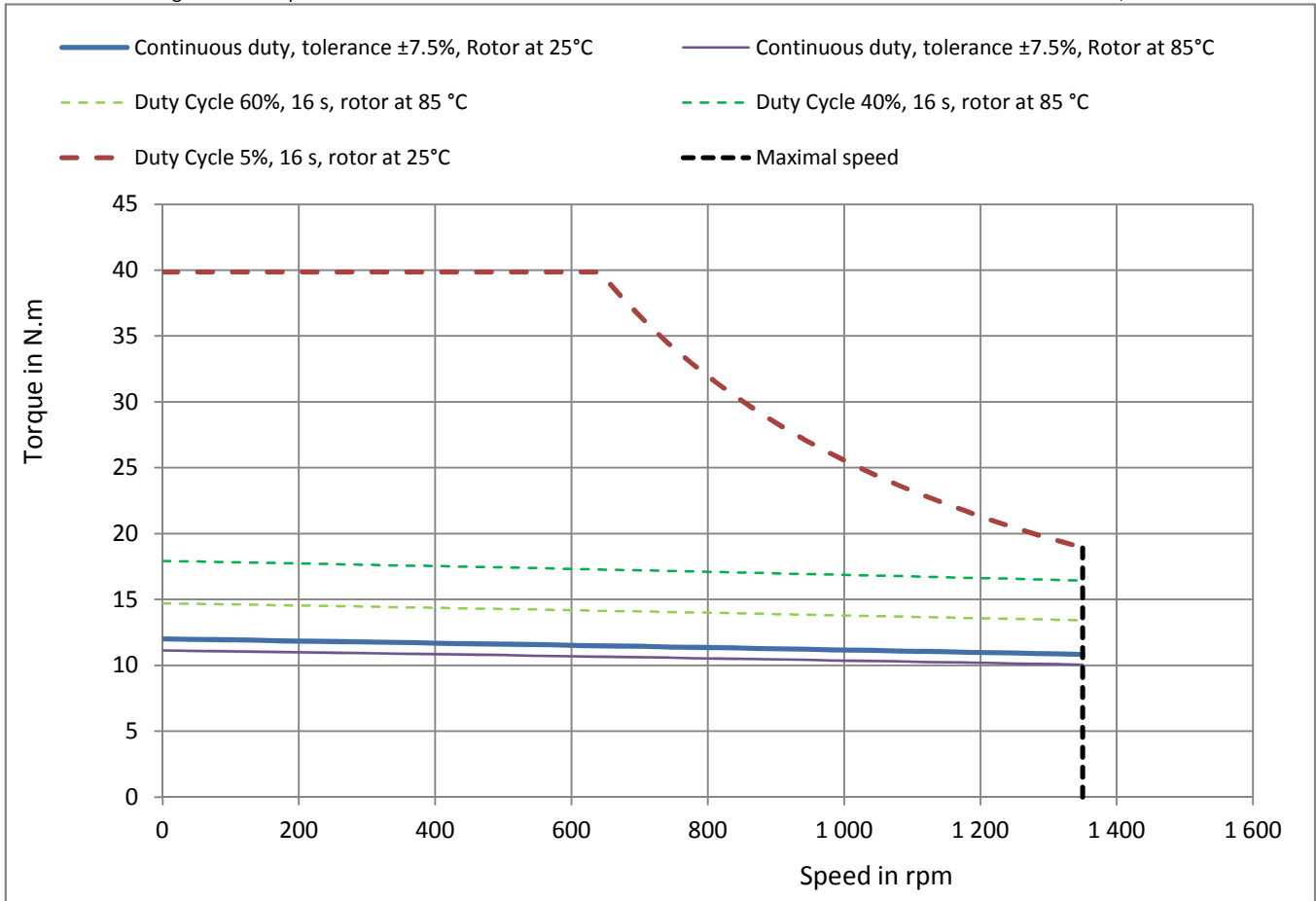
P _n	Rated power **	1.53	<i>kW</i>	Cooling type : Natural Air cooling Flange 400*400*12mm(ALU)
M _n	Rated torque **	10.8	<i>Nm</i>	
N _n	Rated speed	1350	<i>rpm</i>	
I _n	Rated current	2.4	<i>A_{rms}</i>	
U _n	Rated voltage *	415	<i>V_{rms}</i>	
U _R	Voltage of the mains	400	<i>V_{rms}</i>	
U	DC voltage supply when motor is loaded	540	<i>V</i>	
M _o	Low speed torque **	12	<i>N.m</i>	Environment : Ambient temperature : 40°C MAX Altitude : < 1000 m Thermal class : F (according to IEC 60034-1)
I _o	Permanent current at low speed	2.63	<i>A_{rms}</i>	
M _p	Max. torque **	39.9	<i>Nm</i>	
I _p	Max. current	10.5	<i>A_{rms}</i>	
N _p	Max. speed	1350	<i>rpm</i>	
J	Rotor inertia	0.0015	<i>kg.m²</i>	Efficiency : at rated torque : 92 % at 75% of rated torque : 93.1 %
K _e	Back emf constant at 1000 rpm (25°C)*	277	<i>V_{rms}</i>	
K _t	Torque sensitivity (25°C)	4.57	<i>Nm/A_{rms}</i>	
R _b	Winding resistance(25°C) *	9.19	<i>Ω</i>	
L	Winding inductance *	99.6	<i>mH</i>	

All data are given in typical values under standard conditions.

* Phase to Phase

Characteristics are given for an optimal drive of the motor.

** General tolerances ±7.5 %, rotor at 25°C



BRUSHLESS MOTOR
NX820EAR / NK820EKR
 ELECTRONIC DRIVE
DRIVE 12 / 44 Arms



UL certified

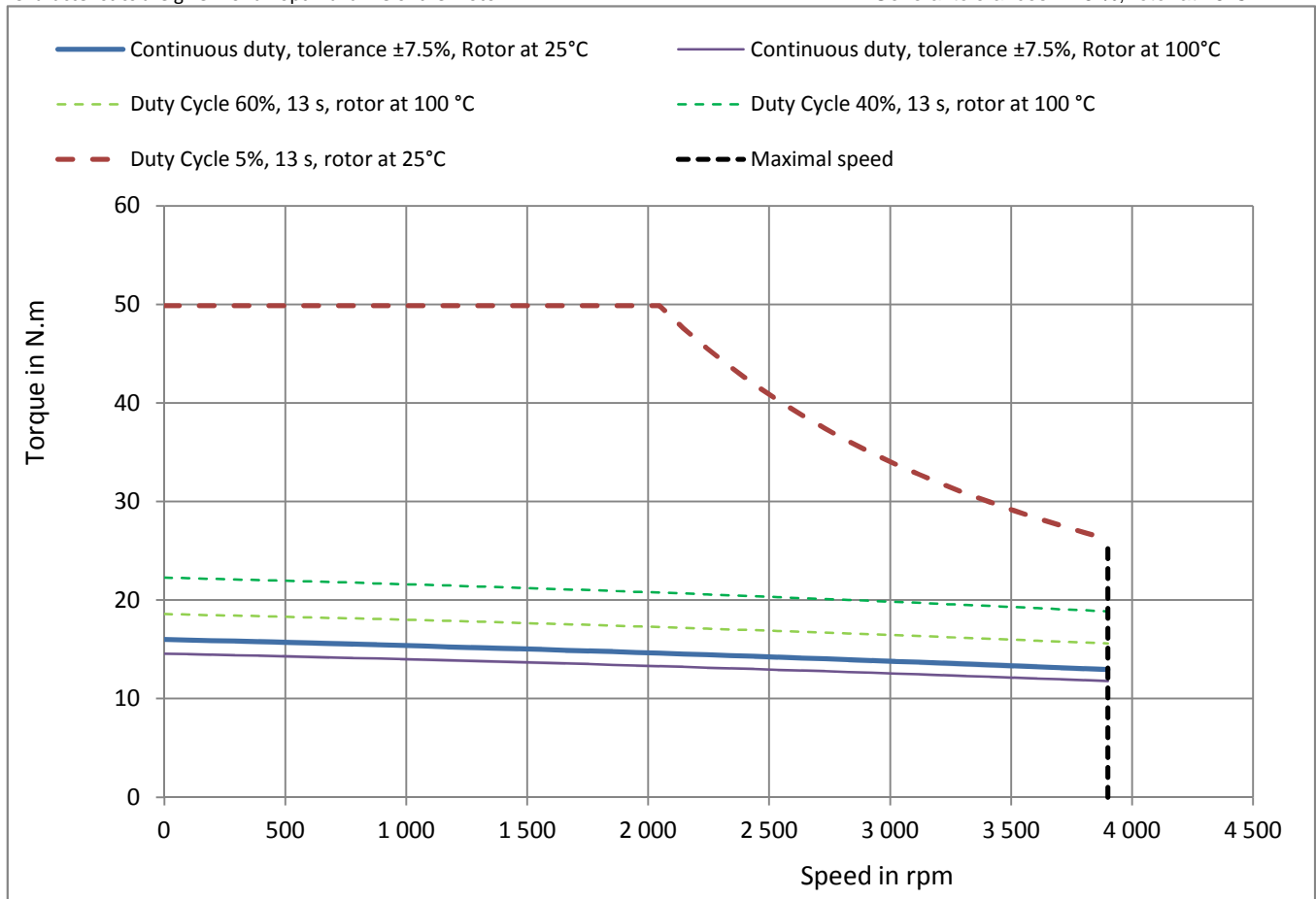
P _n	Rated power **	5.29	<i>kW</i>	Cooling type : Natural Air cooling Flange 400*400*12mm(ALU)
M _n	Rated torque **	12.9	<i>Nm</i>	
N _n	Rated speed	3900	<i>rpm</i>	
I _n	Rated current	9.07	<i>A_{rms}</i>	
U _n	Rated voltage *	367	<i>V_{rms}</i>	
U _R	Voltage of the mains	400	<i>V_{rms}</i>	
U	DC voltage supply when motor is loaded	540	<i>V</i>	
M _o	Low speed torque **	16	<i>N.m</i>	Environment : Ambient temperature : 40°C MAX Altitude : < 1000 m Thermal class : F (according to IEC 60034-1)
I _o	Permanent current at low speed	11	<i>A_{rms}</i>	
M _p	Max. torque **	49.9	<i>Nm</i>	
I _p	Max. current	43.2	<i>A_{rms}</i>	
N _p	Max. speed	3900	<i>rpm</i>	
J	Rotor inertia	0.0032	<i>kg.m²</i>	Efficiency : at rated torque : 93.6 % at 75% of rated torque : 93.6 %
K _e	Back emf constant at 1000 rpm (25°C)*	91	<i>V_{rms}</i>	
K _t	Torque sensitivity (25°C)	1.46	<i>Nm/A_{rms}</i>	
R _b	Winding resistance(25°C) *	1.01	<i>Ω</i>	
L	Winding inductance *	8.57	<i>mH</i>	

All data are given in typical values under standard conditions.

* Phase to Phase

Characteristics are given for an optimal drive of the motor.

** General tolerances ±7.5 %, rotor at 25°C



BRUSHLESS MOTOR
NX820EAX / NK820EKX
 ELECTRONIC DRIVE
DRIVE 6 / 21 Arms



UL certified

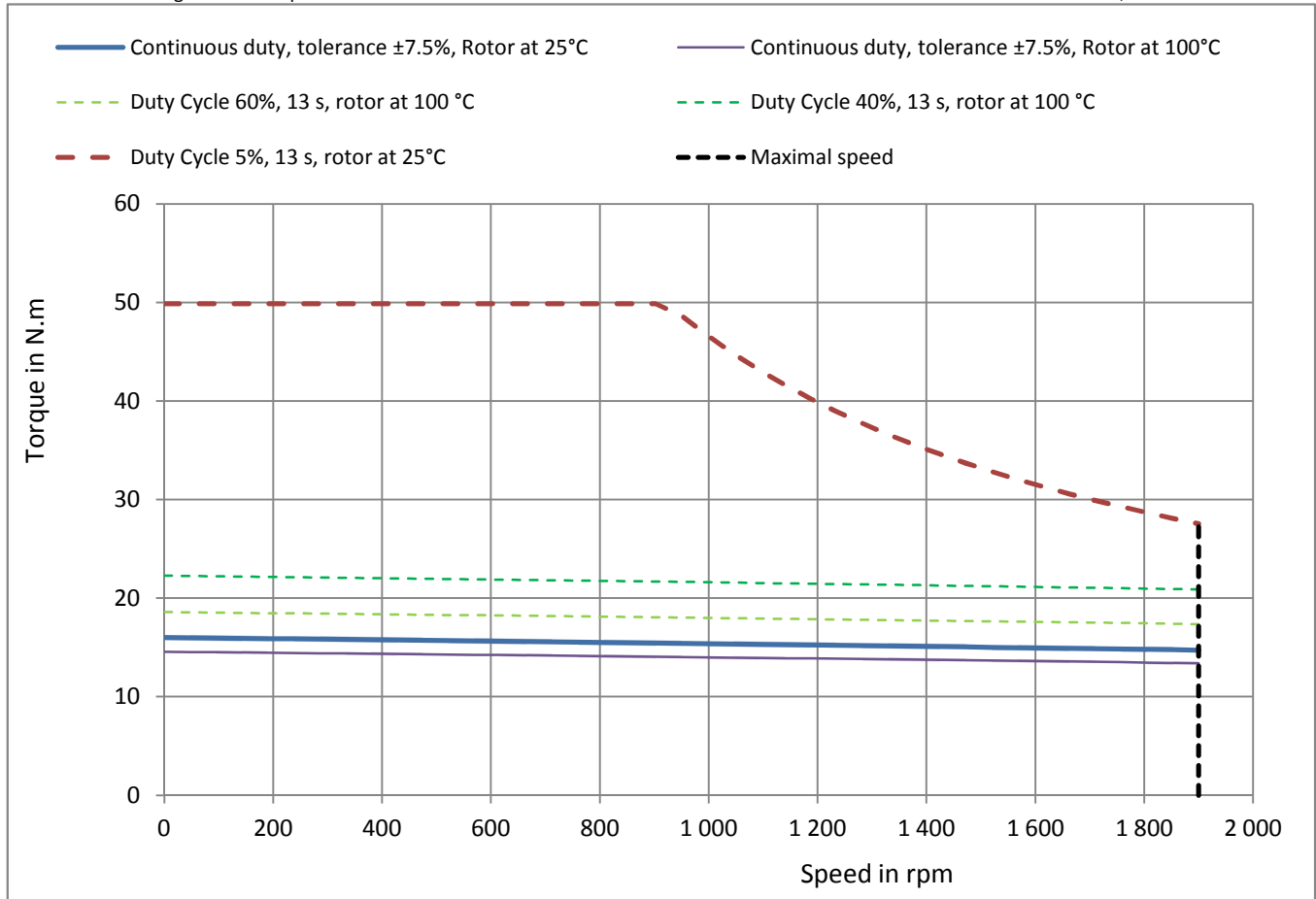
P _n	Rated power **	2.93	<i>kW</i>	Cooling type : Natural Air cooling Flange 400*400*12mm(ALU)
M _n	Rated torque **	14.7	<i>Nm</i>	
N _n	Rated speed	1900	<i>rpm</i>	
I _n	Rated current	4.79	<i>A_{rms}</i>	
U _n	Rated voltage *	397	<i>V_{rms}</i>	
U _R	Voltage of the mains	400	<i>V_{rms}</i>	
U	DC voltage supply when motor is loaded	540	<i>V</i>	
M _o	Low speed torque **	16	<i>N.m</i>	Environment : Ambient temperature : 40°C MAX Altitude : < 1000 m Thermal class : F (according to IEC 60034-1)
I _o	Permanent current at low speed	5.16	<i>A_{rms}</i>	
M _p	Max. torque **	49.9	<i>Nm</i>	
I _p	Max. current	20.3	<i>A_{rms}</i>	
N _p	Max. speed	1900	<i>rpm</i>	
J	Rotor inertia	0.0032	<i>kg.m²</i>	Efficiency : at rated torque : 91.6 % at 75% of rated torque : 93.2 %
K _e	Back emf constant at 1000 rpm (25°C)*	193	<i>V_{rms}</i>	
K _t	Torque sensitivity (25°C)	3.1	<i>Nm/A_{rms}</i>	
R _b	Winding resistance(25°C) *	4.53	<i>Ω</i>	
L	Winding inductance *	38.7	<i>mH</i>	

All data are given in typical values under standard conditions.

* Phase to Phase

Characteristics are given for an optimal drive of the motor.

** General tolerances ±7.5 %, rotor at 25°C



BRUSHLESS MOTOR
NX840EAK / NK840EKK
 ELECTRONIC DRIVE
DRIVE 17 / 67 Arms



No UL certification

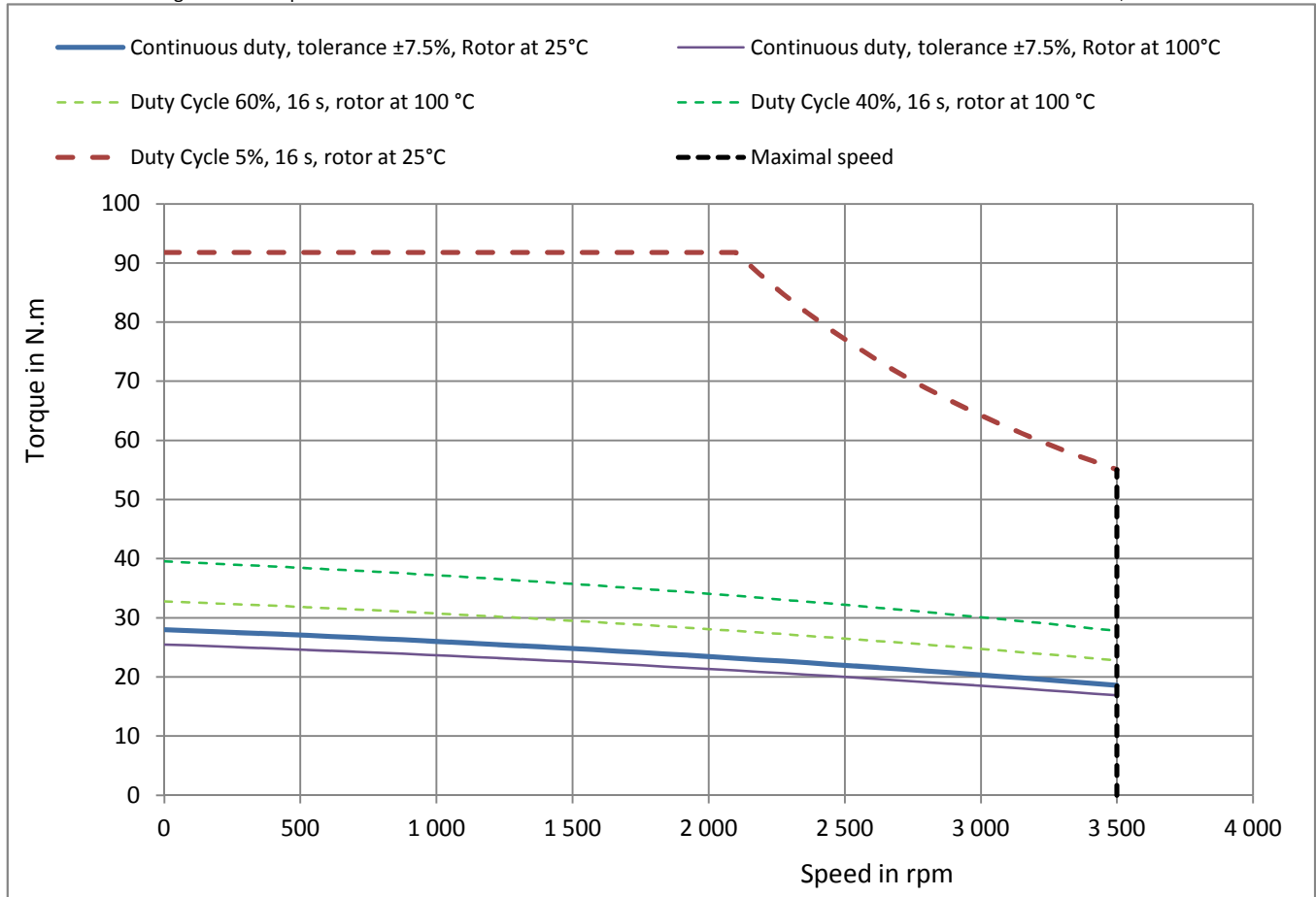
P _n	Rated power **	6.8	<i>kW</i>	Cooling type : Natural Air cooling Flange 400*400*12mm(ALU)
M _n	Rated torque **	18.6	<i>Nm</i>	
N _n	Rated speed	3500	<i>rpm</i>	
I _n	Rated current	11.5	<i>A_{rms}</i>	
U _n	Rated voltage *	365	<i>V_{rms}</i>	
UR	Voltage of the mains	400	<i>V_{rms}</i>	
U	DC voltage supply when motor is loaded	540	<i>V</i>	
M _o	Low speed torque **	28	<i>N.m</i>	Environment : Ambient temperature : 40°C MAX Altitude : < 1000 m Thermal class : F (according to IEC 60034-1)
I _o	Permanent current at low speed	16.8	<i>A_{rms}</i>	
M _p	Max. torque **	91.8	<i>Nm</i>	
I _p	Max. current	66.5	<i>A_{rms}</i>	
N _p	Max. speed	3500	<i>rpm</i>	
J	Rotor inertia	0.0062	<i>kg.m²</i>	Number of poles : 10
K _e	Back emf constant at 1000 rpm (25°C)*	104	<i>V_{rms}</i>	Efficiency : at rated torque : 94 % at 75% of rated torque : 93.3 %
K _t	Torque sensitivity (25°C)	1.67	<i>Nm/A_{rms}</i>	
R _b	Winding resistance(25°C) *	0.493	<i>Ω</i>	
L	Winding inductance *	5.42	<i>mH</i>	

All data are given in typical values under standard conditions.

* Phase to Phase

Characteristics are given for an optimal drive of the motor.

** General tolerances ±7.5 %, rotor at 25°C



BRUSHLESS MOTOR
NX840EAQ / NK840EKQ
 ELECTRONIC DRIVE
DRIVE 11 / 40 Arms



UL certified

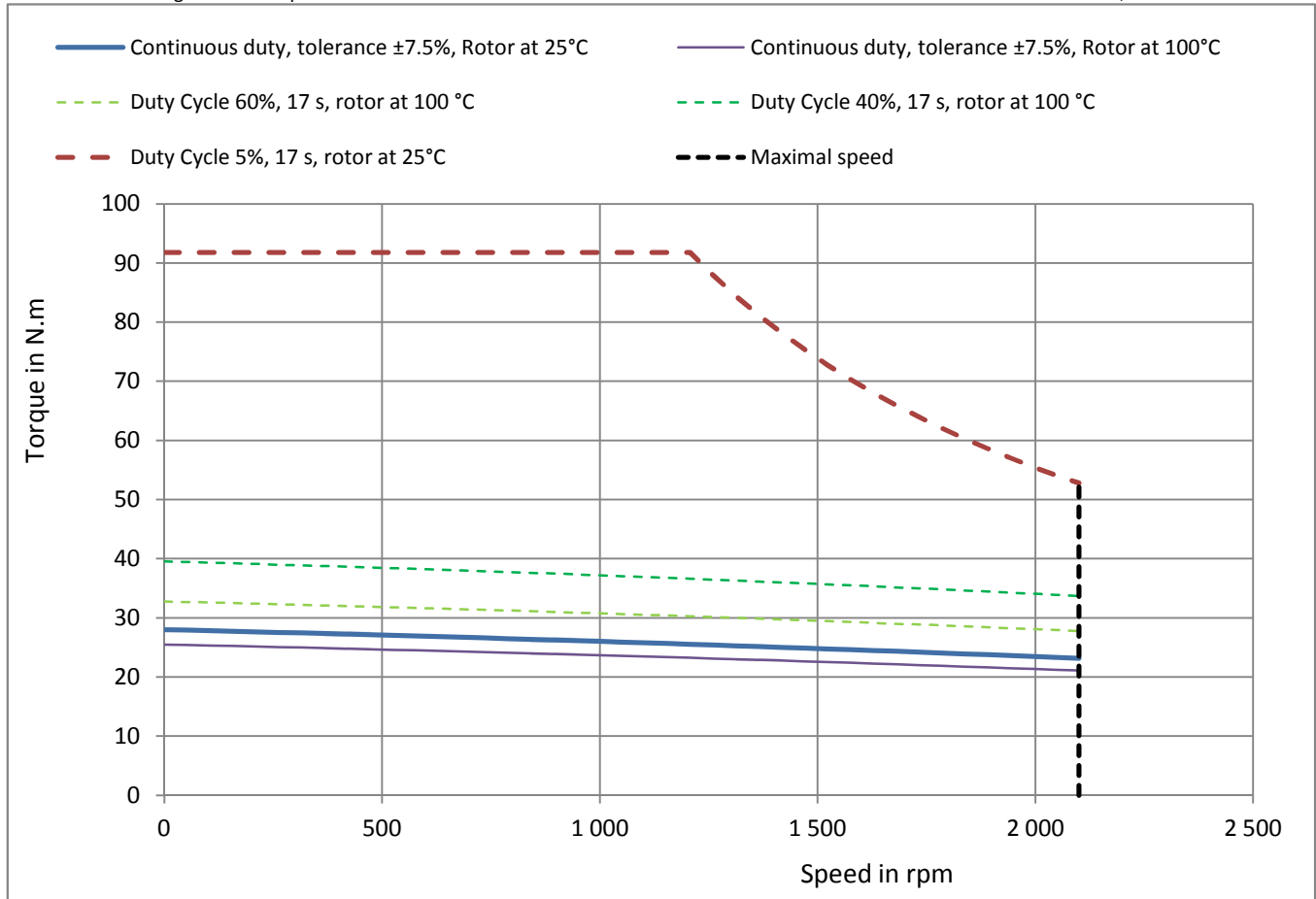
P _n	Rated power **	5.09	<i>kW</i>	Cooling type : Natural Air cooling Flange 400*400*12mm(ALU)
M _n	Rated torque **	23.2	<i>Nm</i>	
N _n	Rated speed	2100	<i>rpm</i>	
I _n	Rated current	8.47	<i>A_{rms}</i>	
U _n	Rated voltage *	374	<i>V_{rms}</i>	
U _R	Voltage of the mains	400	<i>V_{rms}</i>	
U	DC voltage supply when motor is loaded	540	<i>V</i>	
M _o	Low speed torque **	28	<i>N.m</i>	Environment : Ambient temperature : 40°C MAX Altitude : < 1000 m Thermal class : F (according to IEC 60034-1)
I _o	Permanent current at low speed	10.1	<i>A_{rms}</i>	
M _p	Max. torque **	91.8	<i>Nm</i>	
I _p	Max. current	39.9	<i>A_{rms}</i>	
N _p	Max. speed	2100	<i>rpm</i>	
J	Rotor inertia	0.0062	<i>kg.m²</i>	Number of poles : 10
K _e	Back emf constant at 1000 rpm (25°C)*	174	<i>V_{rms}</i>	Efficiency : at rated torque : 94 % at 75% of rated torque : 94.4 %
K _t	Torque sensitivity (25°C)	2.78	<i>Nm/A_{rms}</i>	
R _b	Winding resistance(25°C) *	1.36	<i>Ω</i>	
L	Winding inductance *	15.1	<i>mH</i>	

All data are given in typical values under standard conditions.

* Phase to Phase

Characteristics are given for an optimal drive of the motor.

** General tolerances ±7.5 %, rotor at 25°C



BRUSHLESS MOTOR
NX860EAJ / NK860EKJ
 ELECTRONIC DRIVE
DRIVE 20 / 75 Arms



No UL certification

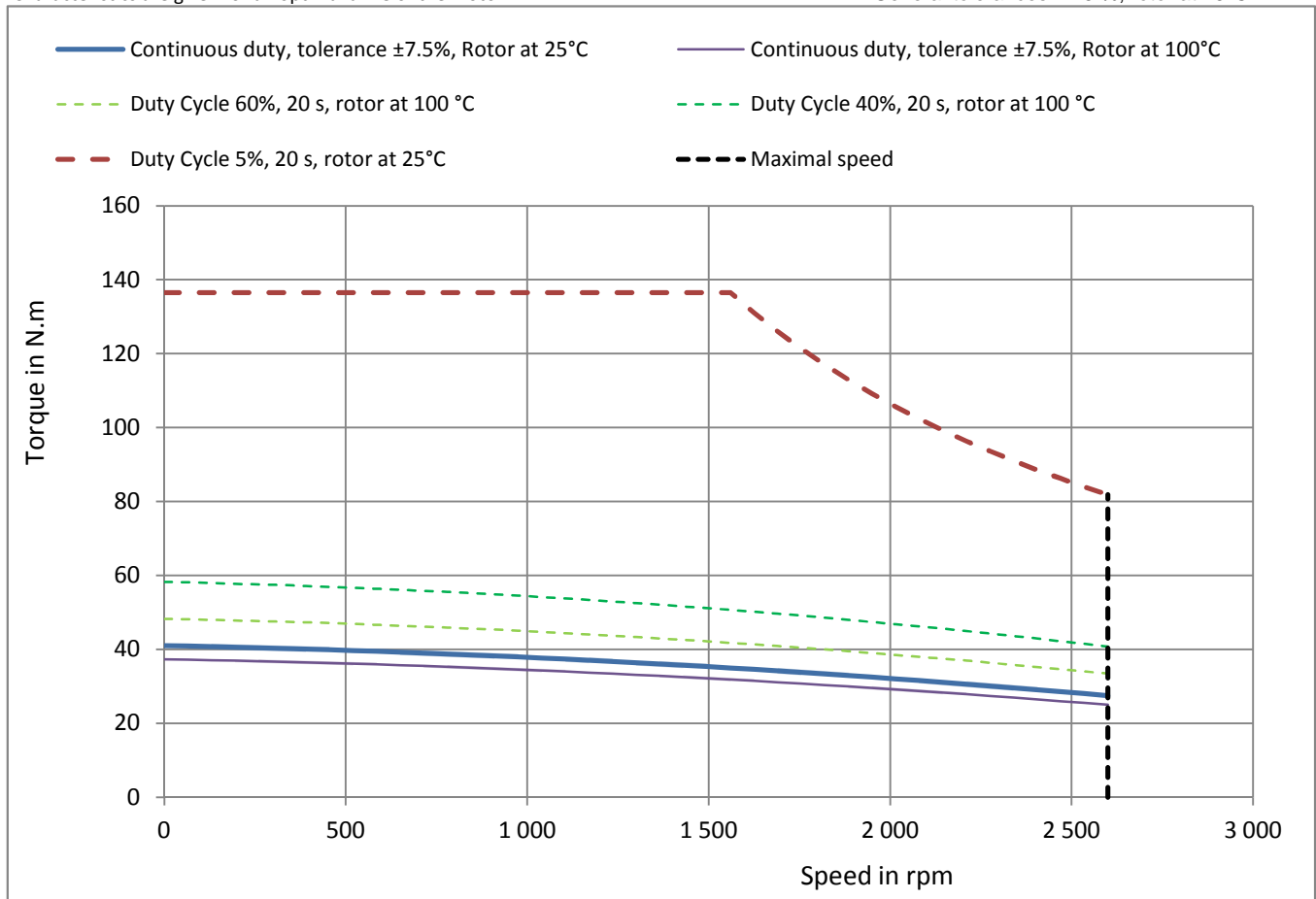
P _n	Rated power **	7.48	<i>kW</i>	Cooling type : Natural Air cooling Flange 400*400*12mm(ALU)
M _n	Rated torque **	27.5	<i>Nm</i>	
N _n	Rated speed	2600	<i>rpm</i>	
I _n	Rated current	12.7	<i>A_{rms}</i>	
U _n	Rated voltage *	361	<i>V_{rms}</i>	
UR	Voltage of the mains	400	<i>V_{rms}</i>	
U	DC voltage supply when motor is loaded	540	<i>V</i>	
M _o	Low speed torque **	41	<i>N.m</i>	Environment : Ambient temperature : 40°C MAX Altitude : < 1000 m Thermal class : F (according to IEC 60034-1)
I _o	Permanent current at low speed	18.5	<i>A_{rms}</i>	
M _p	Max. torque **	136	<i>Nm</i>	
I _p	Max. current	74	<i>A_{rms}</i>	
N _p	Max. speed	2600	<i>rpm</i>	
J	Rotor inertia	0.0092	<i>kg.m²</i>	Number of poles : 10
K _e	Back emf constant at 1000 rpm (25°C)*	140	<i>V_{rms}</i>	Efficiency : at rated torque : 94.8 % at 75% of rated torque : 94.4 %
K _t	Torque sensitivity (25°C)	2.21	<i>Nm/A_{rms}</i>	
R _b	Winding resistance(25°C) *	0.499	<i>Ω</i>	
L	Winding inductance *	6.43	<i>mH</i>	

All data are given in typical values under standard conditions.

* Phase to Phase

Characteristics are given for an optimal drive of the motor.

** General tolerances ±7.5 %, rotor at 25°C



BRUSHLESS MOTOR
NK310WAF
 ELECTRONIC DRIVE
DRIVE 12/18 Arms



No UL certification

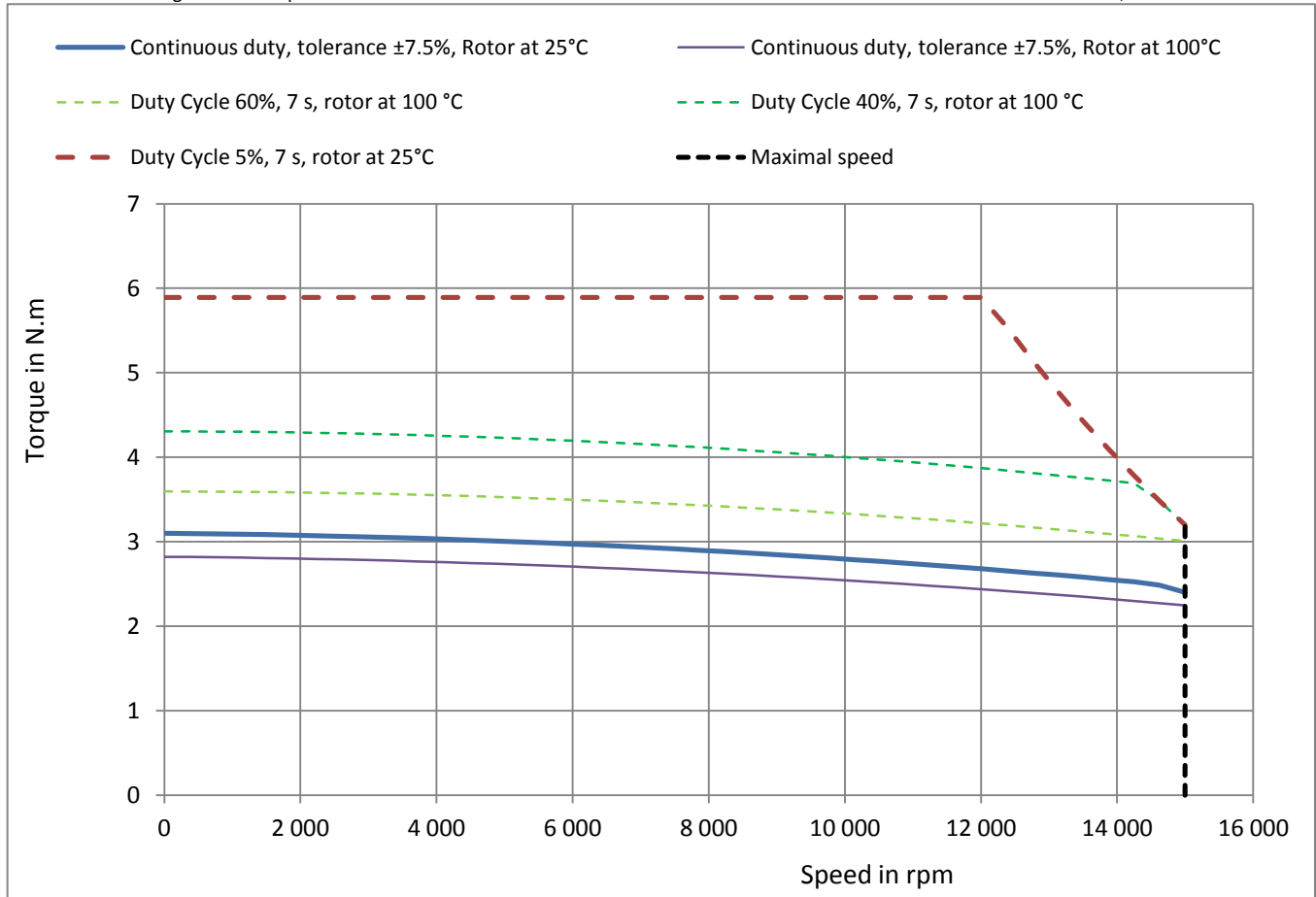
P _n	Rated power **	3.81	<i>kW</i>	Cooling type : Water cooling IC 97 W Minimum flow: 0.9 l/min Maximum Temperature: 25 °C Maximum Coolant Pressure: 5 bars
M _n	Rated torque **	2.5	<i>Nm</i>	
N _n	Rated speed	14500	<i>rpm</i>	
I _n	Rated current	7.4	<i>A_{rms}</i>	
U _n	Rated voltage *	333	<i>V_{rms}</i>	
UR	Voltage of the mains	400	<i>V_{rms}</i>	
U	DC voltage supply when motor is loaded	540	<i>V</i>	
M _o	Low speed torque **	3.1	<i>N.m</i>	Environment : Ambient temperature : 40°C MAX Altitude : < 1000 m Thermal class : F (according to IEC 60034-1)
I _o	Permanent current at low speed	8.9	<i>A_{rms}</i>	
M _p	Max. torque **	5.89	<i>Nm</i>	
I _p	Max. current	18	<i>A_{rms}</i>	
N _p	Max. speed	15000	<i>rpm</i>	
J	Rotor inertia	0.79	<i>kg.cm²</i>	Number of poles : 10
K _e	Back emf constant at 1000 rpm (25°C)*	22.2	<i>V_{rms}</i>	Efficiency : at rated torque : 92.6 % at 75% of rated torque : 92.1 %
K _t	Torque sensitivity (25°C)	0.349	<i>Nm/A_{rms}</i>	
R _b	Winding resistance(25°C) *	1.08	<i>Ω</i>	
L	Winding inductance *	2.9	<i>mH</i>	

All data are given in typical values under standard conditions.

* Phase to Phase

Characteristics are given for an optimal drive of the motor.

** General tolerances ±7.5 %, rotor at 25°C



BRUSHLESS MOTOR
NK420WAD
 ELECTRONIC DRIVE
DRIVE 20/40 Arms



No UL certification

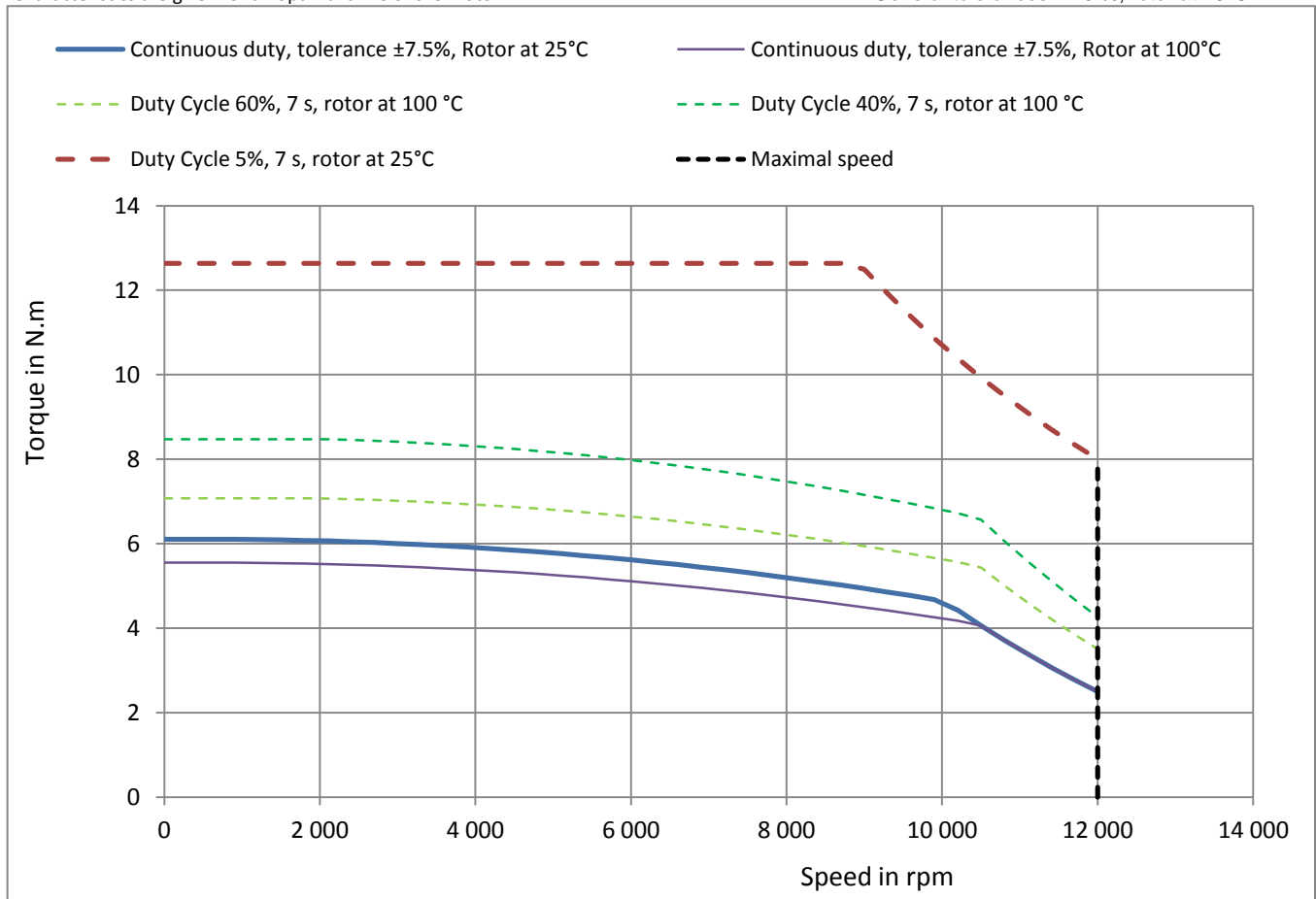
P _n	Rated power **	4.87	<i>kW</i>	Cooling type : Water cooling IC 97 W Minimum flow: 1.3 l/min Maximum Temperature: 25 °C Maximum Coolant Pressure: 5 bars
M _n	Rated torque **	4.64	<i>Nm</i>	
N _n	Rated speed	10000	<i>rpm</i>	
I _n	Rated current	12.6	<i>A_{rms}</i>	
U _n	Rated voltage *	253	<i>V_{rms}</i>	
UR	Voltage of the mains	400	<i>V_{rms}</i>	
U	DC voltage supply when motor is loaded	540	<i>V</i>	
M _o	Low speed torque **	6.1	<i>N.m</i>	Environment : Ambient temperature : 40°C MAX Altitude : < 1000 m Thermal class : F (according to IEC 60034-1)
I _o	Permanent current at low speed	16.3	<i>A_{rms}</i>	
M _p	Max. torque **	12.6	<i>Nm</i>	
I _p	Max. current	36.4	<i>A_{rms}</i>	
N _p	Max. speed	12000	<i>rpm</i>	
J	Rotor inertia	0.00029	<i>kg.m²</i>	Number of poles : 10
K _e	Back emf constant at 1000 rpm (25°C)*	24	<i>V_{rms}</i>	Efficiency : at rated torque : 93.2 % at 75% of rated torque : 92.7 %
K _t	Torque sensitivity (25°C)	0.375	<i>Nm/A_{rms}</i>	
R _b	Winding resistance(25°C) *	0.485	<i>Ω</i>	
L	Winding inductance *	2.14	<i>mH</i>	

All data are given in typical values under standard conditions.

* Phase to Phase

Characteristics are given for an optimal drive of the motor.

** General tolerances ±7.5 %, rotor at 25°C



BRUSHLESS MOTOR
NK430WAD
 ELECTRONIC DRIVE
DRIVE 22/44 Arms



No UL certification

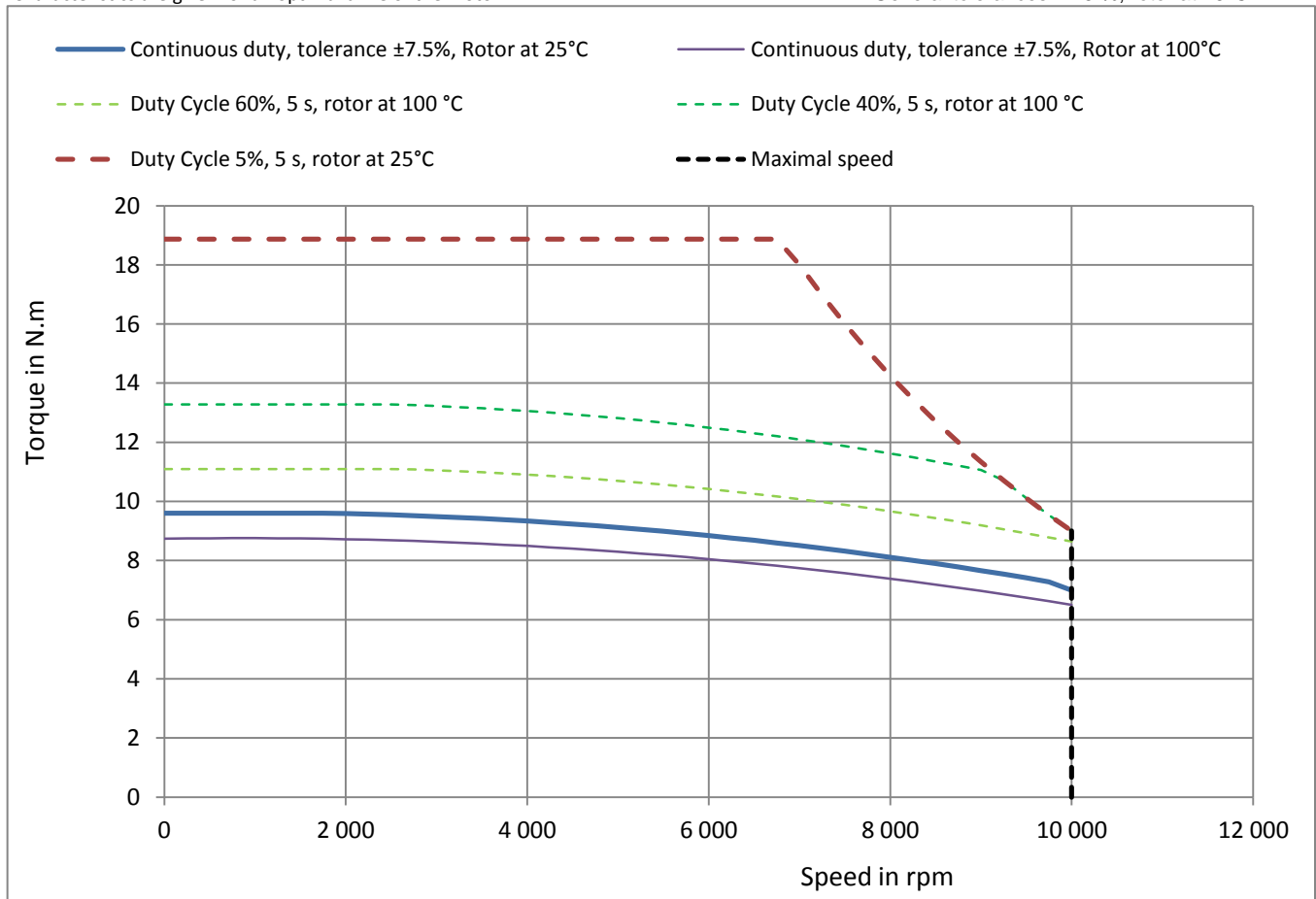
P _n	Rated power **	7.44	<i>kW</i>	Cooling type : Water cooling IC 97 W Minimum flow: 1.6 l/min Maximum Temperature: 25 °C Maximum Coolant Pressure: 5 bars
M _n	Rated torque **	7.26	<i>Nm</i>	
N _n	Rated speed	9790	<i>rpm</i>	
I _n	Rated current	14.1	<i>A_{rms}</i>	
U _n	Rated voltage *	341	<i>V_{rms}</i>	
UR	Voltage of the mains	400	<i>V_{rms}</i>	
U	DC voltage supply when motor is loaded	540	<i>V</i>	
M _o	Low speed torque **	9.6	<i>N.m</i>	Environment : Ambient temperature : 40°C MAX Altitude : < 1000 m Thermal class : F (according to IEC 60034-1)
I _o	Permanent current at low speed	18.3	<i>A_{rms}</i>	
M _p	Max. torque **	18.9	<i>Nm</i>	
I _p	Max. current	38.9	<i>A_{rms}</i>	
N _p	Max. speed	10000	<i>rpm</i>	
J	Rotor inertia	0.00042	<i>kg.m²</i>	Number of poles : 10
K _e	Back emf constant at 1000 rpm (25°C)*	33.5	<i>V_{rms}</i>	Efficiency : at rated torque : 93.4 % at 75% of rated torque : 93.1 %
K _t	Torque sensitivity (25°C)	0.523	<i>Nm/A_{rms}</i>	
R _b	Winding resistance(25°C) *	0.575	<i>Ω</i>	
L	Winding inductance *	2.5	<i>mH</i>	

All data are given in typical values under standard conditions.

* Phase to Phase

Characteristics are given for an optimal drive of the motor.

** General tolerances ±7.5 %, rotor at 25°C



BRUSHLESS MOTOR
NK620WAC
 ELECTRONIC DRIVE
DRIVE 32/48 Arms



No UL certification

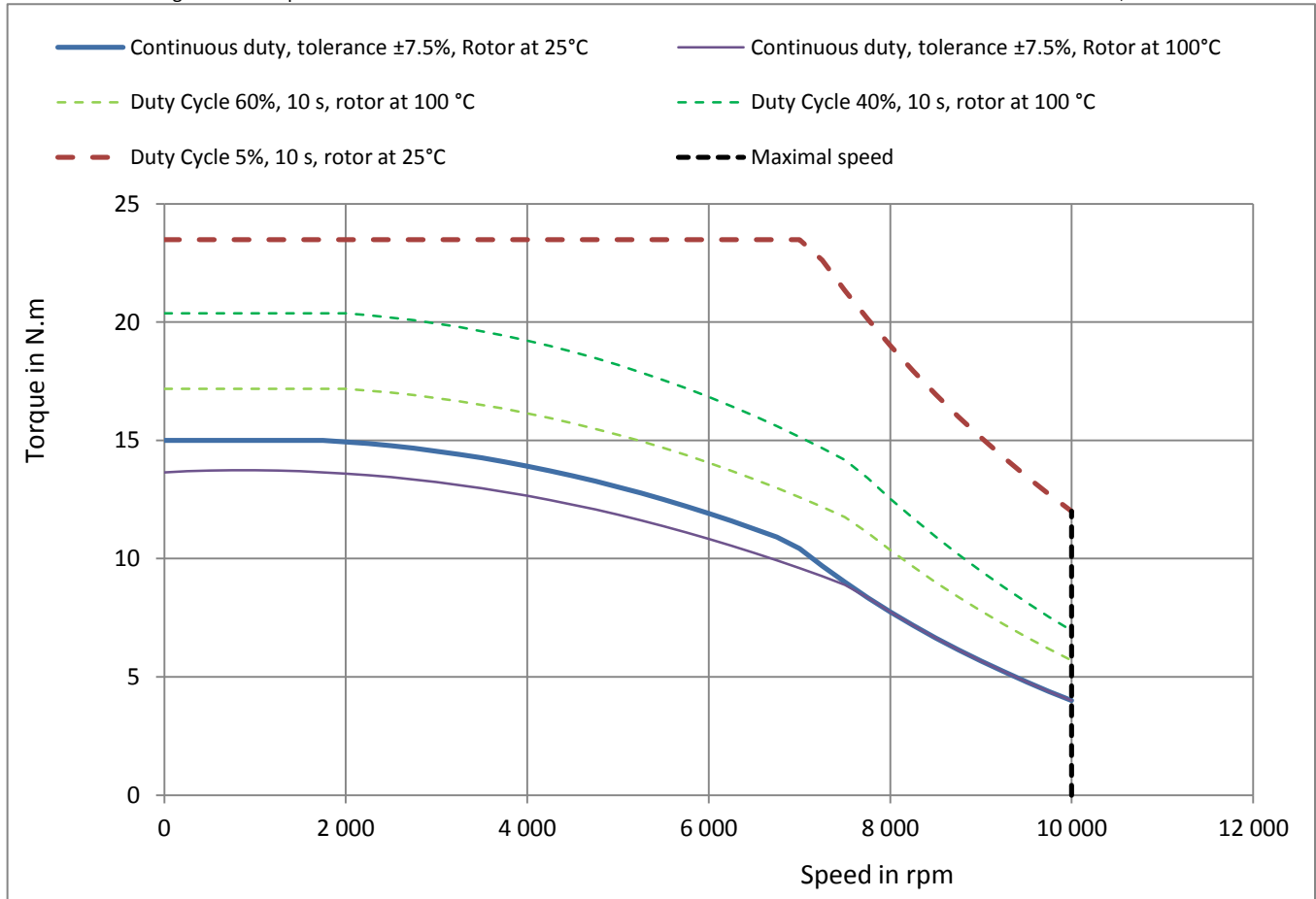
P _n	Rated power **	7.73	<i>kW</i>	Cooling type : Water cooling IC 97 W Minimum flow: 1.6 l/min Maximum Temperature: 25 °C Maximum Coolant Pressure: 5 bars
M _n	Rated torque **	10.7	<i>Nm</i>	
N _n	Rated speed	6930	<i>rpm</i>	
I _n	Rated current	20.7	<i>A_{rms}</i>	
U _n	Rated voltage *	243	<i>V_{rms}</i>	
UR	Voltage of the mains	400	<i>V_{rms}</i>	
U	DC voltage supply when motor is loaded	540	<i>V</i>	
M _o	Low speed torque **	15	<i>N.m</i>	Environment : Ambient temperature : 40°C MAX Altitude : < 1000 m Thermal class : F (according to IEC 60034-1)
I _o	Permanent current at low speed	29	<i>A_{rms}</i>	
M _p	Max. torque **	23.5	<i>Nm</i>	
I _p	Max. current	48	<i>A_{rms}</i>	
N _p	Max. speed	10000	<i>rpm</i>	
J	Rotor inertia	0.00098	<i>kg.m²</i>	Number of poles : 10
K _e	Back emf constant at 1000 rpm (25°C)*	33	<i>V_{rms}</i>	Efficiency : at rated torque : 94.9 % at 75% of rated torque : 94.6 %
K _t	Torque sensitivity (25°C)	0.517	<i>Nm/A_{rms}</i>	
R _b	Winding resistance(25°C) *	0.24	<i>Ω</i>	
L	Winding inductance *	1.91	<i>mH</i>	

All data are given in typical values under standard conditions.

* Phase to Phase

Characteristics are given for an optimal drive of the motor.

** General tolerances ±7.5 %, rotor at 25°C



BRUSHLESS MOTOR
NK630WAD
 ELECTRONIC DRIVE
DRIVE 50/75 Arms



No UL certification

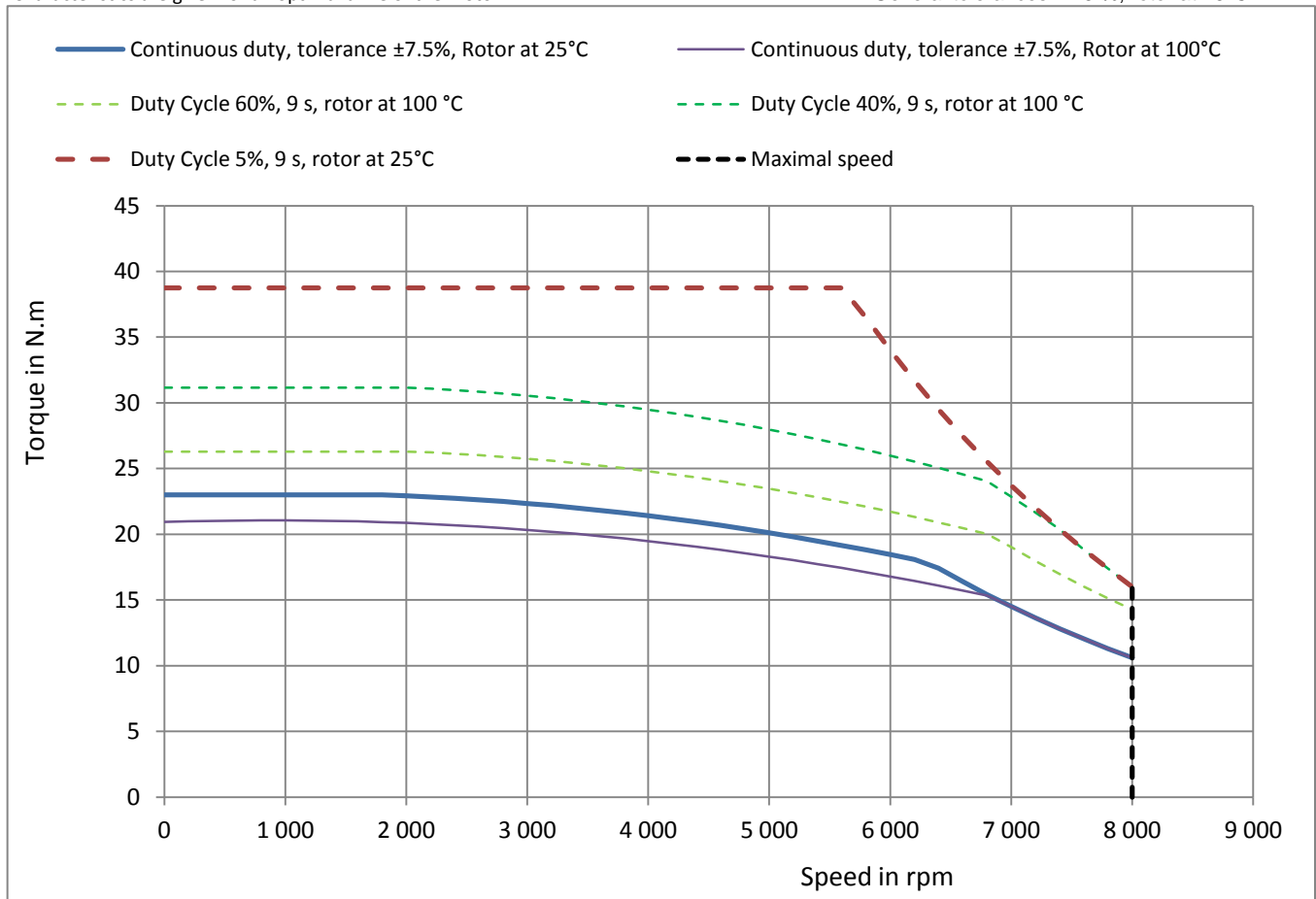
P _n	Rated power **	11.8	<i>kW</i>	Cooling type : Water cooling IC 97 W Minimum flow: 2.1 l/min Maximum Temperature: 25 °C Maximum Coolant Pressure: 5 bars
M _n	Rated torque **	17.8	<i>Nm</i>	
N _n	Rated speed	6320	<i>rpm</i>	
I _n	Rated current	31.2	<i>A_{rms}</i>	
U _n	Rated voltage *	251	<i>V_{rms}</i>	
U _R	Voltage of the mains	400	<i>V_{rms}</i>	
U	DC voltage supply when motor is loaded	540	<i>V</i>	
M _o	Low speed torque **	23	<i>N.m</i>	Environment : Ambient temperature : 40°C MAX Altitude : < 1000 m Thermal class : F (according to IEC 60034-1)
I _o	Permanent current at low speed	40.1	<i>A_{rms}</i>	
M _p	Max. torque **	38.7	<i>Nm</i>	
I _p	Max. current	72.8	<i>A_{rms}</i>	
N _p	Max. speed	8000	<i>rpm</i>	
J	Rotor inertia	0.00147	<i>kg.m²</i>	Number of poles : 10 Efficiency : at rated torque : 95.1 % at 75% of rated torque : 95.1 %
K _e	Back emf constant at 1000 rpm (25°C)*	36.6	<i>V_{rms}</i>	
K _t	Torque sensitivity (25°C)	0.574	<i>Nm/A_{rms}</i>	
R _b	Winding resistance(25°C) *	0.169	<i>Ω</i>	
L	Winding inductance *	1.57	<i>mH</i>	

All data are given in typical values under standard conditions.

* Phase to Phase

Characteristics are given for an optimal drive of the motor.

** General tolerances ±7.5 %, rotor at 25°C



BRUSHLESS MOTOR
NK820WAG
 ELECTRONIC DRIVE
DRIVE 50/75 Arms



No UL certification

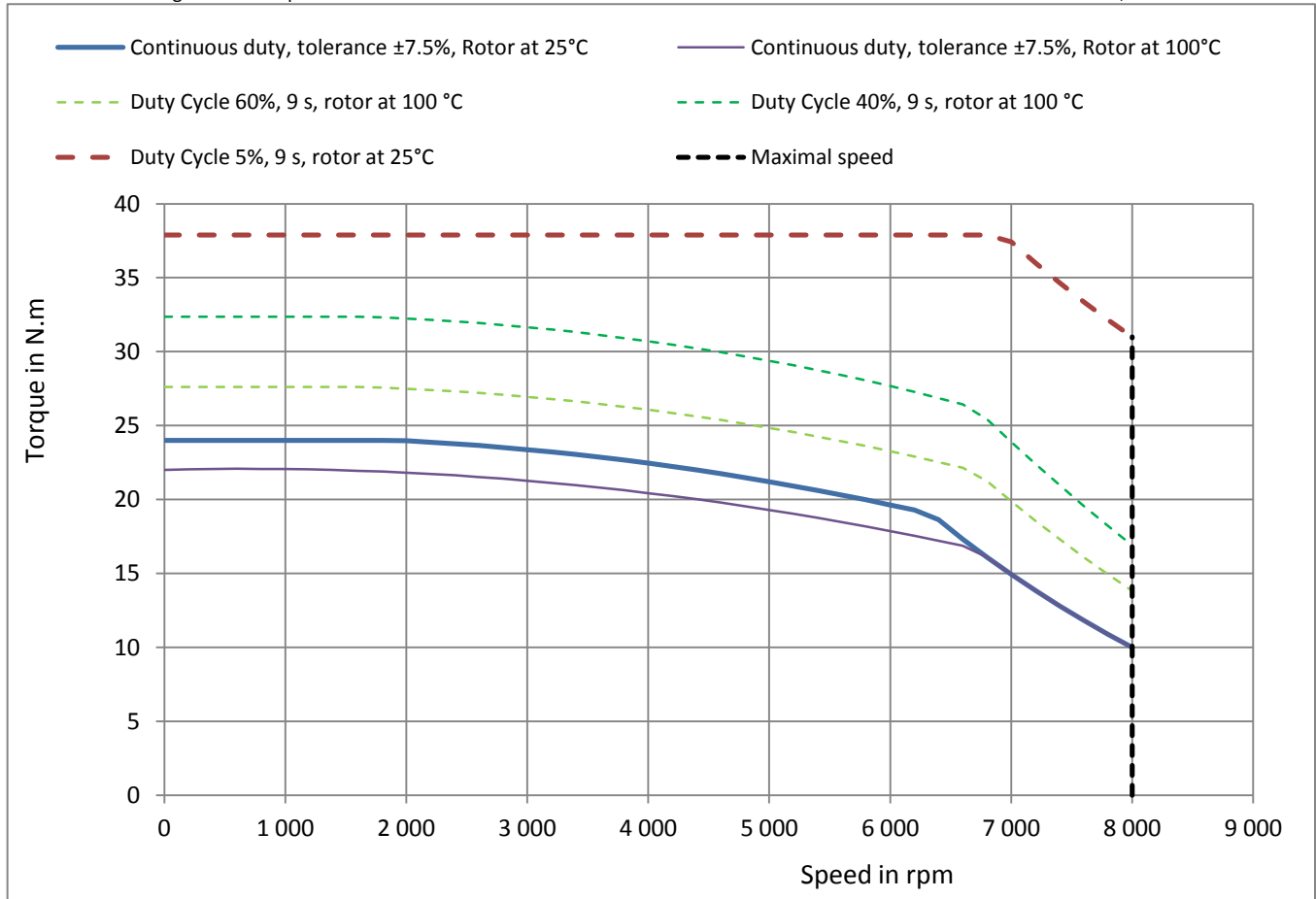
P _n	Rated power **	12.6	<i>kW</i>	Cooling type : Water cooling IC 97 W Minimum flow: 1.6 l/min Maximum Temperature: 25 °C Maximum Coolant Pressure: 5 bars
M _n	Rated torque **	19	<i>Nm</i>	
N _n	Rated speed	6340	<i>rpm</i>	
I _n	Rated current	35.2	<i>A_{rms}</i>	
U _n	Rated voltage *	235	<i>V_{rms}</i>	
UR	Voltage of the mains	400	<i>V_{rms}</i>	
U	DC voltage supply when motor is loaded	540	<i>V</i>	
M _o	Low speed torque **	24	<i>N.m</i>	Environment : Ambient temperature : 40°C MAX Altitude : < 1000 m Thermal class : F (according to IEC 60034-1)
I _o	Permanent current at low speed	44.1	<i>A_{rms}</i>	
M _p	Max. torque **	37.9	<i>Nm</i>	
I _p	Max. current	75	<i>A_{rms}</i>	
N _p	Max. speed	8000	<i>rpm</i>	
J	Rotor inertia	0.0032	<i>kg.m²</i>	Number of poles : 10
K _e	Back emf constant at 1000 rpm (25°C)*	34.8	<i>V_{rms}</i>	Efficiency : at rated torque : 94.6 % at 75% of rated torque : 94.5 %
K _t	Torque sensitivity (25°C)	0.544	<i>Nm/A_{rms}</i>	
R _b	Winding resistance(25°C) *	0.143	<i>Ω</i>	
L	Winding inductance *	1.22	<i>mH</i>	

All data are given in typical values under standard conditions.

* Phase to Phase

Characteristics are given for an optimal drive of the motor.

** General tolerances ±7.5 %, rotor at 25°C



BRUSHLESS MOTOR
NK840WAD
 ELECTRONIC DRIVE
DRIVE 75/100 Arms



No UL certification

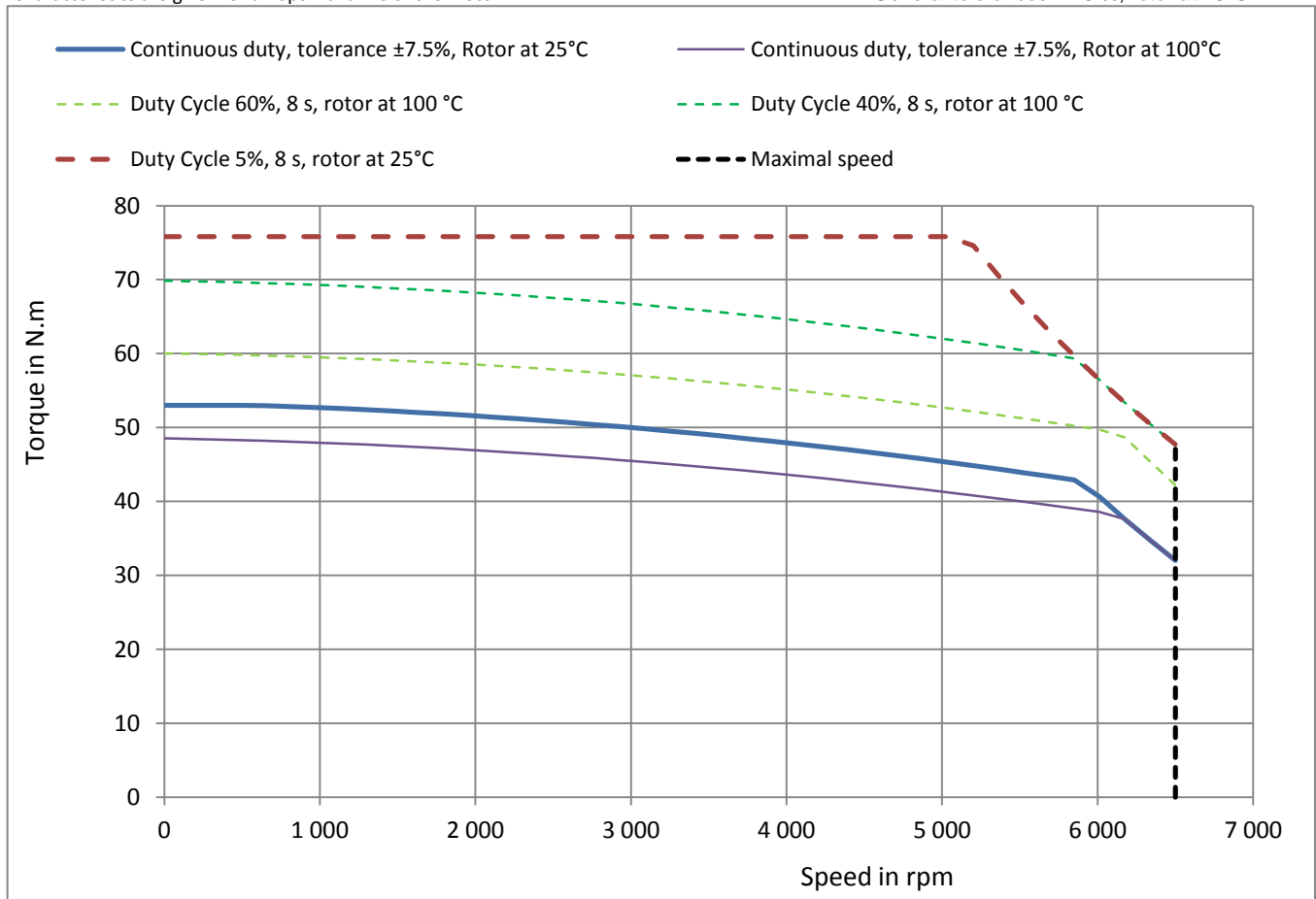
P _n	Rated power **	26.4	<i>kW</i>	Cooling type : Water cooling IC 97 W Minimum flow: 3.3 l/min Maximum Temperature: 25 °C Maximum Coolant Pressure: 5 bars
M _n	Rated torque **	42.7	<i>Nm</i>	
N _n	Rated speed	5910	<i>rpm</i>	
I _n	Rated current	52.7	<i>A_{rms}</i>	
U _n	Rated voltage *	337	<i>V_{rms}</i>	
UR	Voltage of the mains	400	<i>V_{rms}</i>	
U	DC voltage supply when motor is loaded	540	<i>V</i>	
M _o	Low speed torque **	53	<i>N.m</i>	Environment : Ambient temperature : 40°C MAX Altitude : < 1000 m Thermal class : F (according to IEC 60034-1)
I _o	Permanent current at low speed	65.3	<i>A_{rms}</i>	
M _p	Max. torque **	75.8	<i>Nm</i>	
I _p	Max. current	100	<i>A_{rms}</i>	
N _p	Max. speed	6500	<i>rpm</i>	
J	Rotor inertia	0.0062	<i>kg.m²</i>	Number of poles : 10
K _e	Back emf constant at 1000 rpm (25°C)*	52.1	<i>V_{rms}</i>	Efficiency : at rated torque : 95.3 % at 75% of rated torque : 95.2 %
K _t	Torque sensitivity (25°C)	0.811	<i>Nm/A_{rms}</i>	
R _b	Winding resistance(25°C) *	0.117	<i>Ω</i>	
L	Winding inductance *	1.4	<i>mH</i>	

All data are given in typical values under standard conditions.

* Phase to Phase

Characteristics are given for an optimal drive of the motor.

** General tolerances ±7.5 %, rotor at 25°C



BRUSHLESS MOTOR
NK860WAD
 ELECTRONIC DRIVE
DRIVE 80/135Arms



No UL certification

P _n	Rated power **	34.8	<i>kW</i>	Cooling type : Water cooling IC 97 W Minimum flow: 5 l/min Maximum Temperature: 25 °C Maximum Coolant Pressure: 5 bars
M _n	Rated torque **	83.2	<i>Nm</i>	
N _n	Rated speed	4000	<i>rpm</i>	
I _n	Rated current	64.6	<i>A_{rms}</i>	
U _n	Rated voltage *	374	<i>V_{rms}</i>	
UR	Voltage of the mains	400	<i>V_{rms}</i>	
U	DC voltage supply when motor is loaded	540	<i>V</i>	
M _o	Low speed torque **	90	<i>N.m</i>	Environment : Ambient temperature : 40°C MAX Altitude : < 1000 m Thermal class : F (according to IEC 60034-1)
I _o	Permanent current at low speed	70.2	<i>A_{rms}</i>	
M _p	Max. torque **	140	<i>Nm</i>	
I _p	Max. current	123	<i>A_{rms}</i>	
N _p	Max. speed	4000	<i>rpm</i>	
J	Rotor inertia	0.0092	<i>kg.m²</i>	Number of poles : 10
K _e	Back emf constant at 1000 rpm (25°C)*	82.8	<i>V_{rms}</i>	Efficiency : at rated torque : 95.3 % at 75% of rated torque : 96.1 %
K _t	Torque sensitivity (25°C)	1.28	<i>Nm/A_{rms}</i>	
R _b	Winding resistance(25°C) *	0.155	<i>Ω</i>	
L	Winding inductance *	2.04	<i>mH</i>	

All data are given in typical values under standard conditions.

* Phase to Phase

Characteristics are given for an optimal drive of the motor.

** General tolerances ±7.5 %, rotor at 25°C

