BRUSHLESS MOTORS

NX110EAP

ELECTRONIC DRIVE

DRIVE 1 / 4 Arms

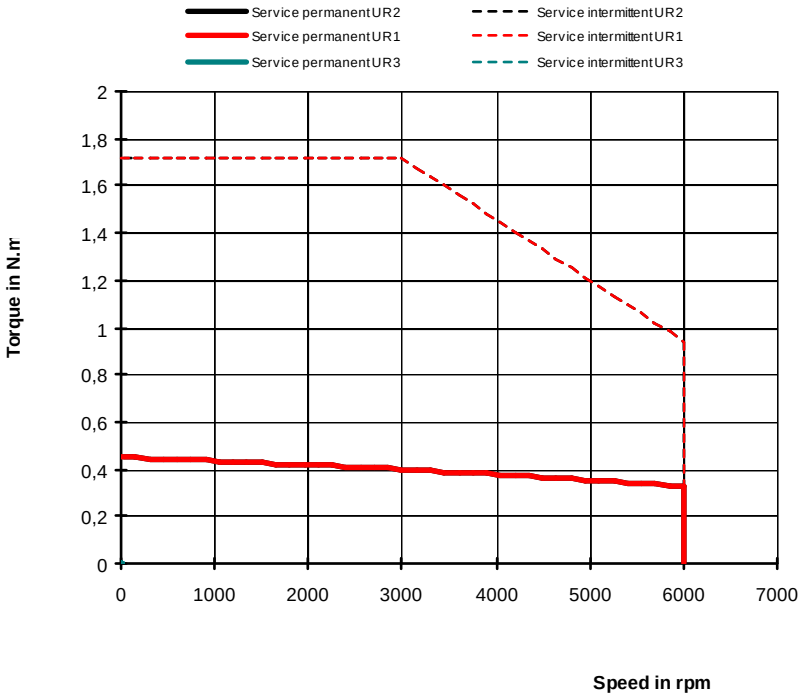
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V_{rms}		230	
Max **mechanical** speed	Nmax	t/min		20000	
Torque at low speed	M_o	Nm		0,45	
Permanent current at low speed	I_o	A_{rms}		0,989	
Peak torque	M_p	Nm		1,7	--
Current for the peak torque	I_p	A_{rms}		3,96	--
Back emf constant at 1000 rpm (25°C)*	Ke	V_{rms}		29,9	
Torque sensitivity	Kt	Nm/A_{rms}		0,455	
Winding resistance (25°C)*	Rb	W		22,6	
Winding inductance*	L	mH		26,5	
Rotor inertia	J	kgm^2x10^{-5}		1,3	
Thermal time constant	Tth	sec		150	
Motor mass	M	kg		0,85	
Voltage of the mains	UR1 UR2 UR3	V_{rms}	230	-	-
Rated speed	Nn1 Nn2 Nn3	t/min	6000	-	-
Rated torque	Mn1 Mn2 Mn3	Nm	0,33	-	-
Rated current	In1 In2 In3	A_{rms}	0,78	-	-
Rated power	Pn1 Pn2 Pn3	W	210	-	-

All data are given in typical values under standard conditions

** Phase to phase*

Voltages and currents are given in rms values



BRUSHLESS MOTORS

NX205EAS

ELECTRONIC DRIVE

DRIVE 1.5 / 7.5 Arms

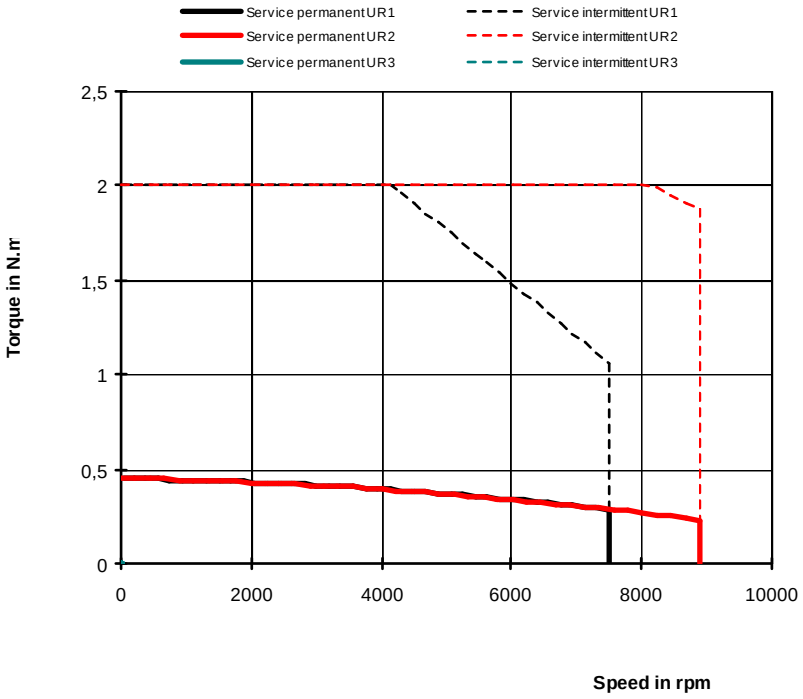
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V_{rms}		400	
Max **mechanical** speed	Nmax	t/min		20000	
Torque at low speed	M_o	Nm		0,45	
Permanent current at low speed	I_o	A_{rms}		1,4	
Peak torque	M_p	Nm		2,0	--
Current for the peak torque	I_p	A_{rms}		7,01	--
Back emf constant at 1000 rpm (25°C)*	Ke	V_{rms}		21,9	
Torque sensitivity	Kt	Nm/A_{rms}		0,322	
Winding resistance (25°C)*	Rb	W		8,89	
Winding inductance*	L	mH		24,3	
Rotor inertia	J	kgm^2x10^{-5}		2,1	
Thermal time constant	Tth	sec		8,5	
Motor mass	M	kg		1	
Voltage of the mains	UR1 UR2 UR3	V_{rms}	230	400	-
Rated speed	Nn1 Nn2 Nn3	t/min	7500	8900	-
Rated torque	Mn1 Mn2 Mn3	Nm	0,29	0,23	-
Rated current	In1 In2 In3	A_{rms}	0,96	0,80	-
Rated power	Pn1 Pn2 Pn3	W	230	210	-

All data are given in typical values under standard conditions

** Phase to phase*

Voltages and currents are given in rms values



Characteristics are given for an optimal drive of the motor and an adaptative phase advance

BRUSHLESS MOTORS

NX205EAV

ELECTRONIC DRIVE

DRIVE 1.5 / 6 Arms

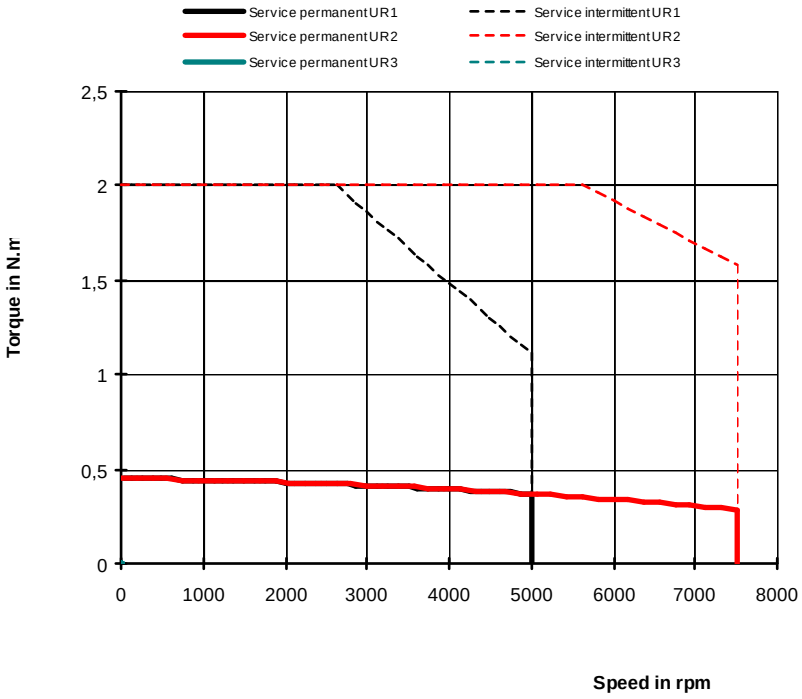
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V_{rms}		400	
Max **mechanical** speed	Nmax	t/min		20000	
Torque at low speed	M_o	Nm		0,45	
Permanent current at low speed	I_o	A_{rms}		1,01	
Peak torque	M_p	Nm		2,0	--
Current for the peak torque	I_p	A_{rms}		5,08	--
Back emf constant at 1000 rpm (25°C)*	Ke	V_{rms}		30,2	
Torque sensitivity	Kt	Nm/A_{rms}		0,444	
Winding resistance (25°C)*	Rb	W		17,6	
Winding inductance*	L	mH		46,4	
Rotor inertia	J	kgm^2x10^{-5}		2,1	
Thermal time constant	Tth	sec		8,5	
Motor mass	M	kg		1	
Voltage of the mains	UR1 UR2 UR3	V_{rms}	230	400	-
Rated speed	Nn1 Nn2 Nn3	t/min	5000	7500	-
Rated torque	Mn1 Mn2 Mn3	Nm	0,37	0,29	-
Rated current	In1 In2 In3	A_{rms}	0,86	0,69	-
Rated power	Pn1 Pn2 Pn3	W	190	230	-

All data are given in typical values under standard conditions

** Phase to phase*

Voltages and currents are given in rms values



Characteristics are given for an optimal drive of the motor and an adaptative phase advance

BRUSHLESS MOTORS

NX210EAG

ELECTRONIC DRIVE

DRIVE 3 / 11 Arms

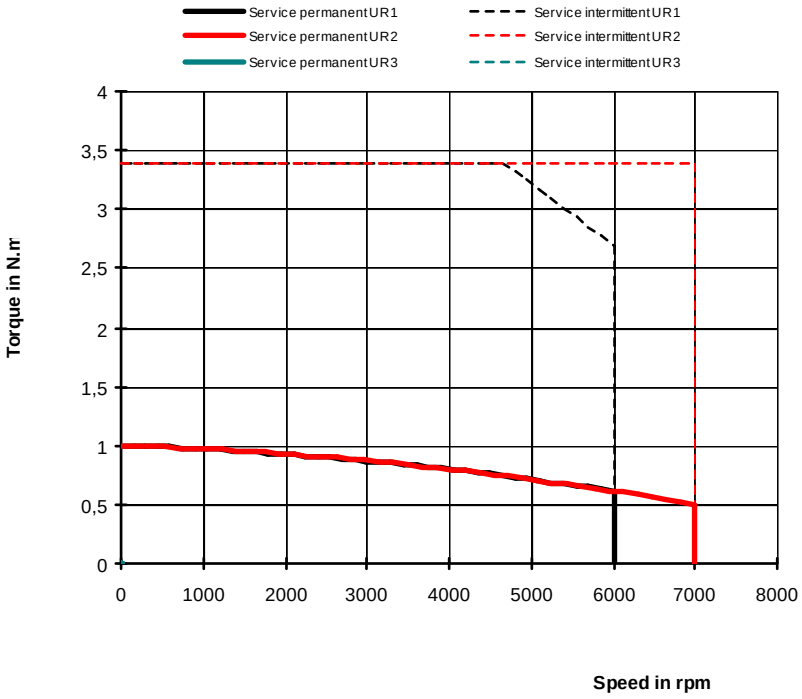
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V_{rms}		400	
Max **mechanical** speed	Nmax	t/min		20000	
Torque at low speed	M_o	Nm		1	
Permanent current at low speed	I_o	A_{rms}		2,75	
Peak torque	M_p	Nm		3,4	--
Current for the peak torque	I_p	A_{rms}		11	--
Back emf constant at 1000 rpm (25°C)*	Ke	V_{rms}		23,6	
Torque sensitivity	Kt	Nm/A_{rms}		0,364	
Winding resistance (25°C)*	Rb	W		3,89	
Winding inductance*	L	mH		8,26	
Rotor inertia	J	kgm^2x10^{-5}		3,8	
Thermal time constant	Tth	sec		350	
Motor mass	M	kg		1,3	
Voltage of the mains	UR1 UR2 UR3	V_{rms}	230	400	-
Rated speed	Nn1 Nn2 Nn3	t/min	6000	7000	-
Rated torque	Mn1 Mn2 Mn3	Nm	0,61	0,50	-
Rated current	In1 In2 In3	A_{rms}	1,83	1,53	-
Rated power	Pn1 Pn2 Pn3	W	390	370	-

All data are given in typical values under standard conditions

** Phase to phase*

Voltages and currents are given in rms values



Characteristics are given for an optimal drive of the motor and an adaptative phase advance

BRUSHLESS MOTORS

NX210EAP

ELECTRONIC DRIVE

DRIVE 2 / 8 Arms

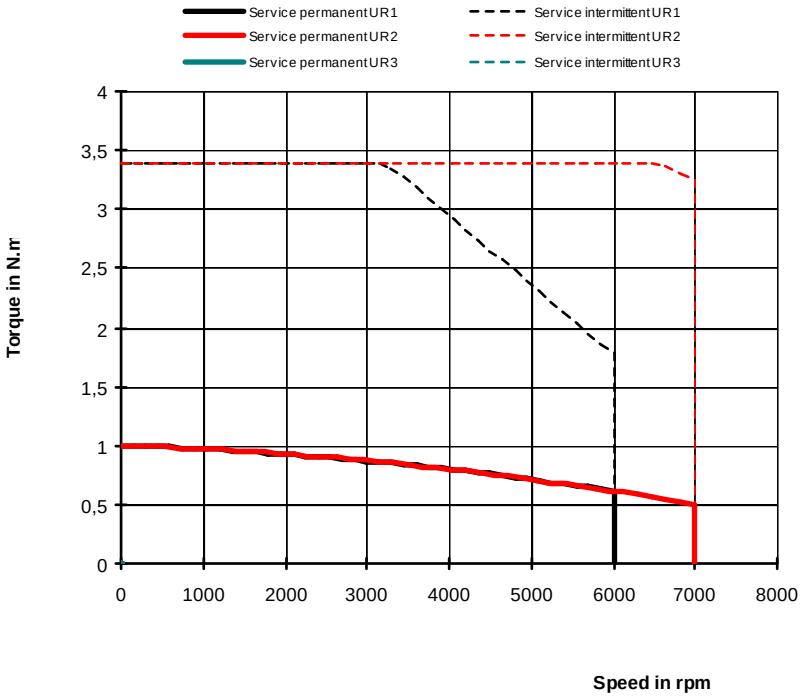
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V_{rms}		400	
Max **mechanical** speed	Nmax	t/min		20000	
Torque at low speed	M_o	Nm		1	
Permanent current at low speed	I_o	A_{rms}		1,99	
Peak torque	M_p	Nm		3,4	--
Current for the peak torque	I_p	A_{rms}		7,96	--
Back emf constant at 1000 rpm (25°C)*	Ke	V_{rms}		32,6	
Torque sensitivity	Kt	Nm/A_{rms}		0,503	
Winding resistance (25°C)*	Rb	W		7,74	
Winding inductance*	L	mH		15,8	
Rotor inertia	J	kgm^2x10^{-5}		3,8	
Thermal time constant	Tth	sec		350	
Motor mass	M	kg		1,3	
Voltage of the mains	UR1 UR2 UR3	V_{rms}	230	400	-
Rated speed	Nn1 Nn2 Nn3	t/min	6000	7000	-
Rated torque	Mn1 Mn2 Mn3	Nm	0,61	0,50	-
Rated current	In1 In2 In3	A_{rms}	1,32	1,11	-
Rated power	Pn1 Pn2 Pn3	W	390	370	-

All data are given in typical values under standard conditions

** Phase to phase*

Voltages and currents are given in rms values



Characteristics are given for an optimal drive of the motor and an adaptative phase advance

BRUSHLESS MOTORS

NX210EAT

ELECTRONIC DRIVE

DRIVE 1.5 / 6 Arms

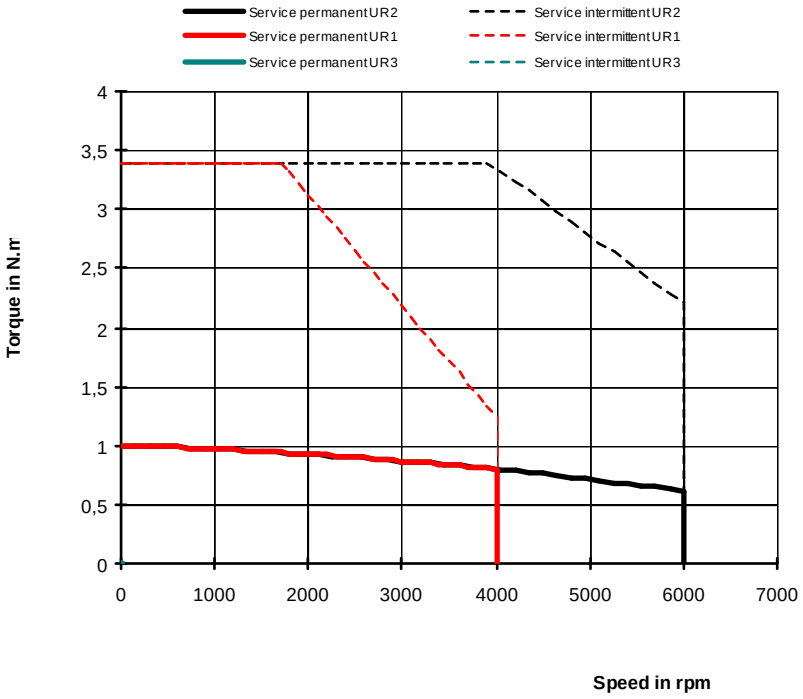
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V_{rms}		400	
Max **mechanical** speed	Nmax	t/min		20000	
Torque at low speed	M_o	Nm		1	
Permanent current at low speed	I_o	A_{rms}		1,33	
Peak torque	M_p	Nm		3,4	--
Current for the peak torque	I_p	A_{rms}		5,35	--
Back emf constant at 1000 rpm (25°C)*	Ke	V_{rms}		48,6	
Torque sensitivity	Kt	Nm/A_{rms}		0,75	
Winding resistance (25°C)*	Rb	W		16,3	
Winding inductance*	L	mH		35	
Rotor inertia	J	kgm^2x10^{-5}		3,8	
Thermal time constant	Tth	sec		350	
Motor mass	M	kg		1,3	
Voltage of the mains	UR1 UR2 UR3	V_{rms}	230	400	-
Rated speed	Nn1 Nn2 Nn3	t/min	4000	6000	-
Rated torque	Mn1 Mn2 Mn3	Nm	0,80	0,61	-
Rated current	In1 In2 In3	A_{rms}	1,11	0,89	-
Rated power	Pn1 Pn2 Pn3	W	330	390	-

All data are given in typical values under standard conditions

** Phase to phase*

Voltages and currents are given in rms values



Characteristics are given for an optimal drive of the motor and an adaptative phase advance

BRUSHLESS MOTORS

NX310EAI

ELECTRONIC DRIVE

DRIVE 3.5 / 14 Arms

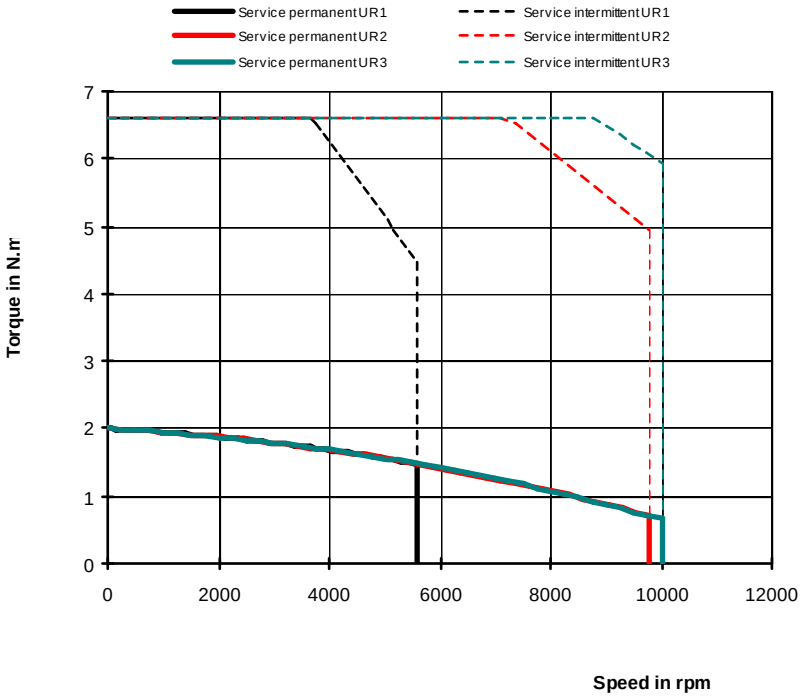
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V_{rms}		480	
Max **mechanical** speed	Nmax	t/min		15000	
Torque at low speed	M_o	Nm		2	
Permanent current at low speed	I_o	A_{rms}		3,38	
Peak torque	M_p	Nm		6,6	--
Current for the peak torque	I_p	A_{rms}		13,5	--
Back emf constant at 1000 rpm (25°C)*	Ke	V_{rms}		36,5	
Torque sensitivity	Kt	Nm/A_{rms}		0,591	
Winding resistance (25°C)*	Rb	W		3,41	
Winding inductance*	L	mH		10,5	
Rotor inertia	J	kgm^2x10^{-5}		7,9	
Thermal time constant	Tth	min		20	
Motor mass	M	kg		2,1	
Voltage of the mains	UR1 UR2 UR3	V_{rms}	230	400	480
Rated speed	Nn1 Nn2 Nn3	t/min	5600	9800	10000
Rated torque	Mn1 Mn2 Mn3	Nm	1,48	0,71	0,66
Rated current	In1 In2 In3	A_{rms}	2,61	1,42	1,35
Rated power	Pn1 Pn2 Pn3	W	870	720	690

All data are given in typical values under standard conditions

** Phase to phase*

Voltages and currents are given in rms values



Characteristics are given for an optimal drive of the motor and an adaptative phase advance

BRUSHLESS MOTORS

NX310EAK

ELECTRONIC DRIVE

DRIVE 2.5 / 10 Arms

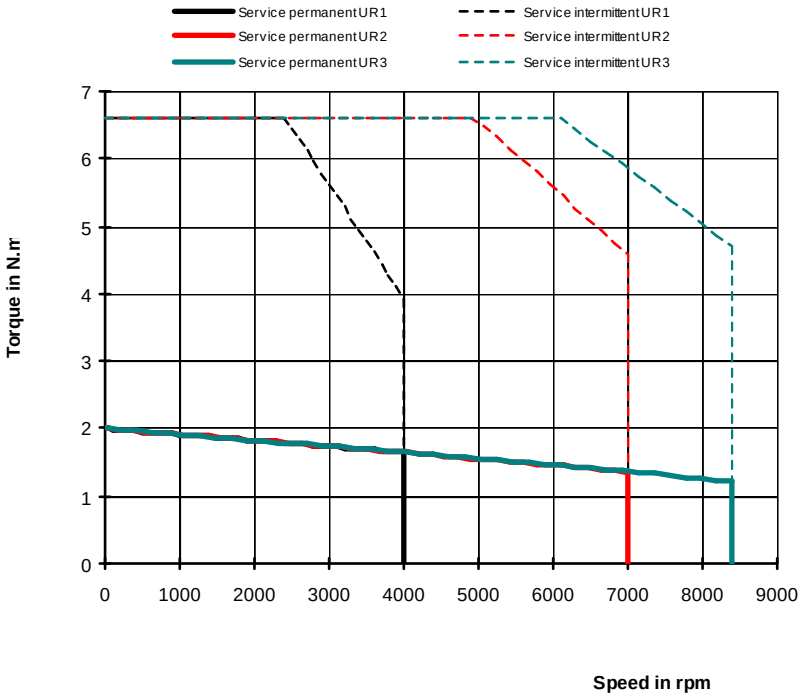
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V_{rms}		480	
Max **mechanical** speed	Nmax	t/min		15000	
Torque at low speed	M_o	Nm		2	
Permanent current at low speed	I_o	A_{rms}		2,43	
Peak torque	M_p	Nm		6,6	--
Current for the peak torque	I_p	A_{rms}		9,71	--
Back emf constant at 1000 rpm (25°C)*	Ke	V_{rms}		50,9	
Torque sensitivity	Kt	Nm/A_{rms}		0,823	
Winding resistance (25°C)*	Rb	W		6,58	
Winding inductance*	L	mH		20,3	
Rotor inertia	J	kgm^2x10^{-5}		7,9	
Thermal time constant	Tth	min		20	
Motor mass	M	kg		2,1	
Voltage of the mains	UR1 UR2 UR3	V_{rms}	230	400	480
Rated speed	Nn1 Nn2 Nn3	t/min	4000	7000	8400
Rated torque	Mn1 Mn2 Mn3	Nm	1,65	1,36	1,22
Rated current	In1 In2 In3	A_{rms}	2,06	1,76	1,61
Rated power	Pn1 Pn2 Pn3	W	690	1000	1070

All data are given in typical values under standard conditions

** Phase to phase*

Voltages and currents are given in rms values



Characteristics are given for an optimal drive of the motor and an adaptative phase advance

BRUSHLESS MOTORS

NX310EAP

ELECTRONIC DRIVE

DRIVE 1.5 / 6 Arms

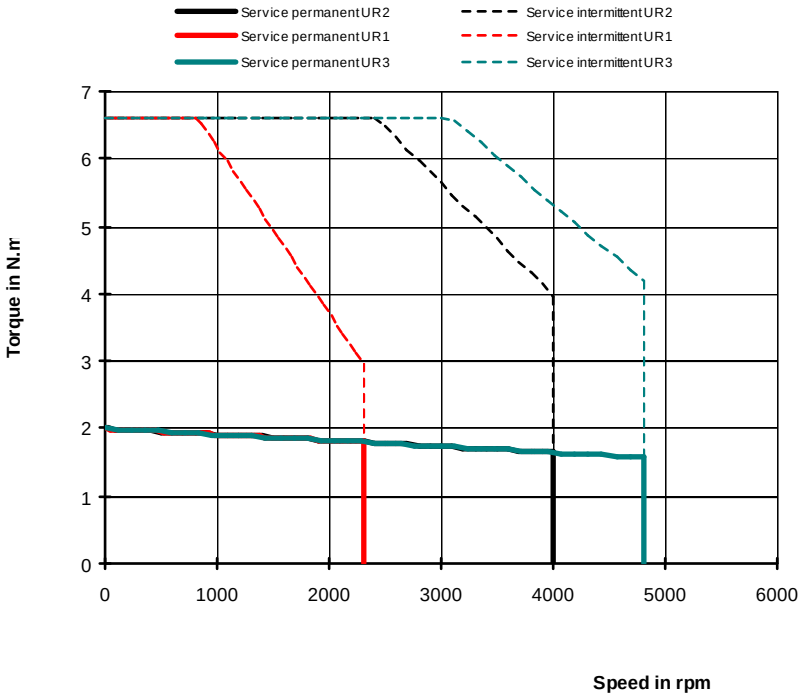
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V_{rms}		480	
Max **mechanical** speed	Nmax	t/min		15000	
Torque at low speed	M_o	Nm		2	
Permanent current at low speed	I_o	A_{rms}		1,39	
Peak torque	M_p	Nm		6,6	--
Current for the peak torque	I_p	A_{rms}		5,56	--
Back emf constant at 1000 rpm (25°C)*	Ke	V_{rms}		88,9	
Torque sensitivity	Kt	Nm/A_{rms}		1,44	
Winding resistance (25°C)*	Rb	W		20,7	
Winding inductance*	L	mH		62	
Rotor inertia	J	kgm^2x10^{-5}		7,9	
Thermal time constant	Tth	min		20	
Motor mass	M	kg		2,1	
Voltage of the mains	UR1 UR2 UR3	V_{rms}	230	400	480
Rated speed	Nn1 Nn2 Nn3	t/min	2300	4000	4800
Rated torque	Mn1 Mn2 Mn3	Nm	1,80	1,65	1,57
Rated current	In1 In2 In3	A_{rms}	1,27	1,18	1,13
Rated power	Pn1 Pn2 Pn3	W	430	690	790

All data are given in typical values under standard conditions

** Phase to phase*

Voltages and currents are given in rms values



BRUSHLESS MOTORS

NX310EAX

ELECTRONIC DRIVE

DRIVE 4 / 16 Arms

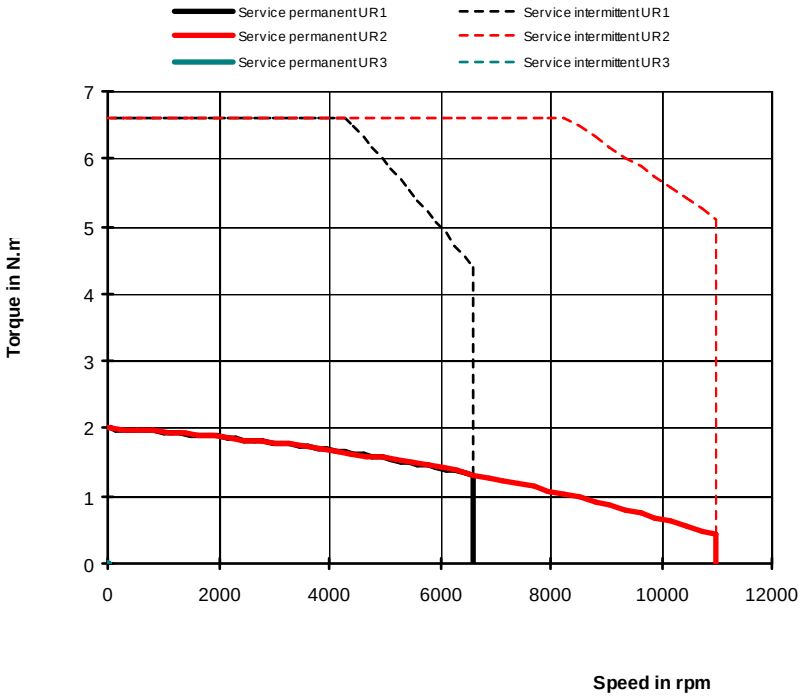
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V_{rms}		400	
Max **mechanical** speed	Nmax	t/min		15000	
Torque at low speed	M_o	Nm		2	
Permanent current at low speed	I_o	A_{rms}		3,85	
Peak torque	M_p	Nm		6,6	--
Current for the peak torque	I_p	A_{rms}		15,4	--
Back emf constant at 1000 rpm (25°C)*	Ke	V_{rms}		32,1	
Torque sensitivity	Kt	Nm/A_{rms}		0,52	
Winding resistance (25°C)*	Rb	W		2,68	
Winding inductance*	L	mH		8,08	
Rotor inertia	J	kgm^2x10^{-5}		7,9	
Thermal time constant	Tth	min		20	
Motor mass	M	kg		2,1	
Voltage of the mains	UR1 UR2 UR3	V_{rms}	230	400	-
Rated speed	Nn1 Nn2 Nn3	t/min	6600	11000	-
Rated torque	Mn1 Mn2 Mn3	Nm	1,32	0,43	-
Rated current	In1 In2 In3	A_{rms}	2,71	1,11	-
Rated power	Pn1 Pn2 Pn3	W	910	490	-

All data are given in typical values under standard conditions

** Phase to phase*

Voltages and currents are given in rms values



Characteristics are given for an optimal drive of the motor and an adaptative phase advance

BRUSHLESS MOTORS

NX420EAJ

ELECTRONIC DRIVE

DRIVE 5 / 20 Arms

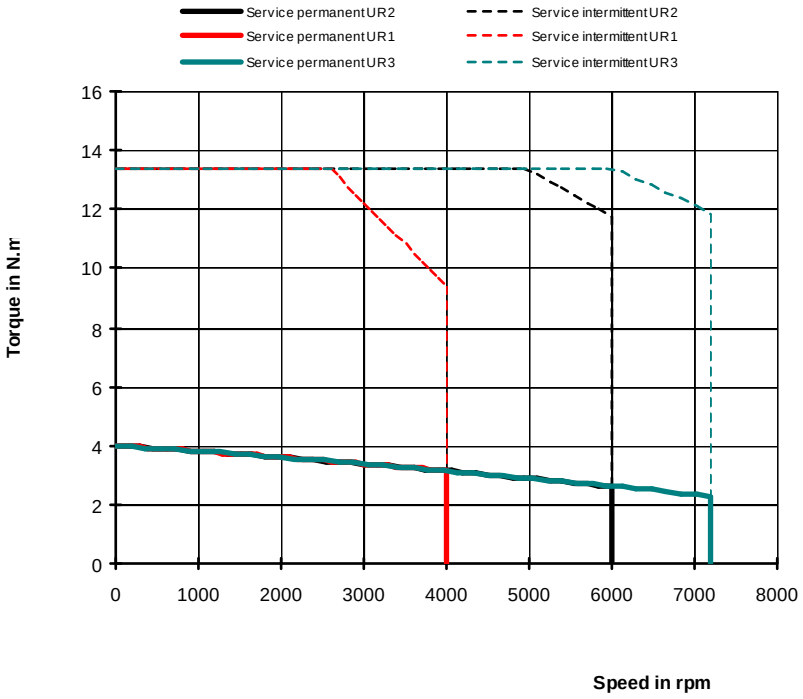
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V_{rms}		480	
Max **mechanical** speed	Nmax	t/min		12000	
Torque at low speed	M_o	Nm		4	
Permanent current at low speed	I_o	A_{rms}		4,69	
Peak torque	M_p	Nm		13,4	--
Current for the peak torque	I_p	A_{rms}		18,8	--
Back emf constant at 1000 rpm (25°C)*	Ke	V_{rms}		51,9	
Torque sensitivity	Kt	Nm/A_{rms}		0,853	
Winding resistance (25°C)*	Rb	W		2,3	
Winding inductance*	L	mH		11	
Rotor inertia	J	kgm^2x10^{-5}		29	
Thermal time constant	Tth	min		12	
Motor mass	M	kg		3,8	
Voltage of the mains	UR1 UR2 UR3	V_{rms}	230	400	480
Rated speed	Nn1 Nn2 Nn3	t/min	4000	6000	7200
Rated torque	Mn1 Mn2 Mn3	Nm	3,14	2,62	2,28
Rated current	In1 In2 In3	A_{rms}	3,74	3,17	2,79
Rated power	Pn1 Pn2 Pn3	W	1310	1650	1720

All data are given in typical values under standard conditions

** Phase to phase*

Voltages and currents are given in rms values



Characteristics are given for an optimal drive of the motor and an adaptative phase advance

BRUSHLESS MOTORS

NX420EAP

ELECTRONIC DRIVE

DRIVE 3 / 11 Arms

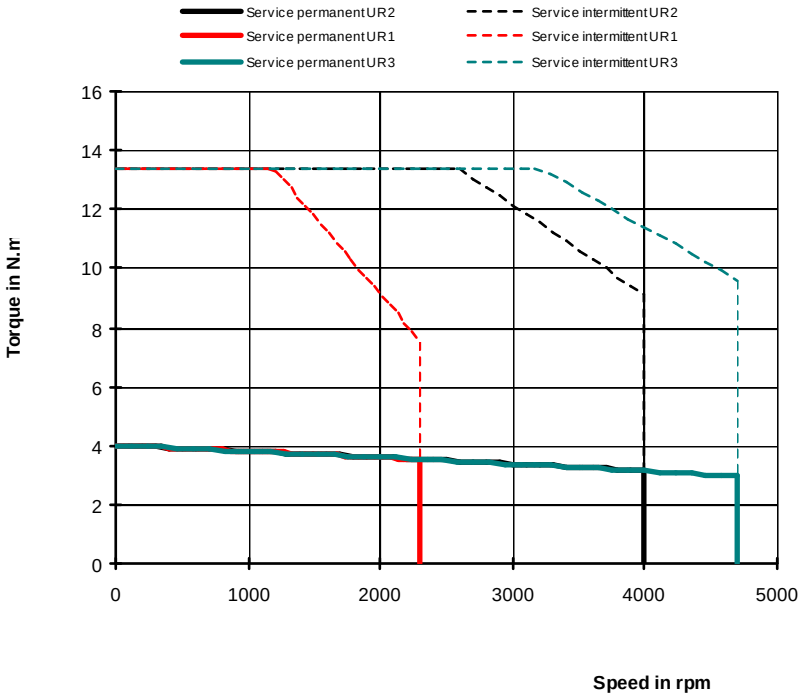
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V_{rms}		480	
Max **mechanical** speed	Nmax	t/min		12000	
Torque at low speed	M_o	Nm		4	
Permanent current at low speed	I_o	A_{rms}		2,71	
Peak torque	M_p	Nm		13,4	--
Current for the peak torque	I_p	A_{rms}		10,9	--
Back emf constant at 1000 rpm (25°C)*	Ke	V_{rms}		89,9	
Torque sensitivity	Kt	Nm/A_{rms}		1,48	
Winding resistance (25°C)*	Rb	W		7,2	
Winding inductance*	L	mH		33	
Rotor inertia	J	kgm^2x10^{-5}		29	
Thermal time constant	Tth	min		12	
Motor mass	M	kg		3,8	
Voltage of the mains	UR1 UR2 UR3	V_{rms}	230	400	480
Rated speed	Nn1 Nn2 Nn3	t/min	2300	4000	4700
Rated torque	Mn1 Mn2 Mn3	Nm	3,53	3,14	2,96
Rated current	In1 In2 In3	A_{rms}	2,41	2,16	2,05
Rated power	Pn1 Pn2 Pn3	W	850	1310	1460

All data are given in typical values under standard conditions

** Phase to phase*

Voltages and currents are given in rms values



Characteristics are given for an optimal drive of the motor and an adaptative phase advance

BRUSHLESS MOTORS

NX420EAV

ELECTRONIC DRIVE

DRIVE 1.5 / 6 Arms

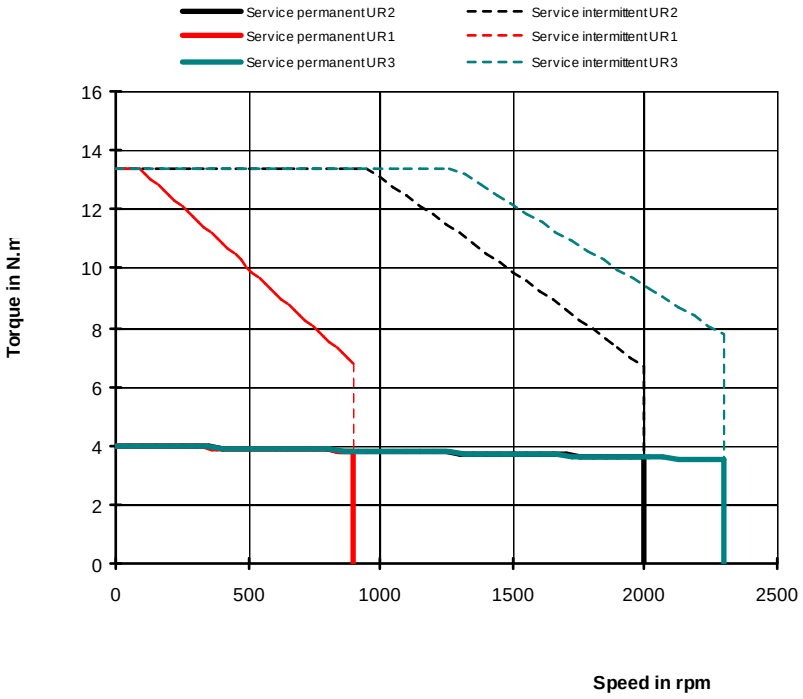
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V_{rms}		480	
Max **mechanical** speed	Nmax	t/min		12000	
Torque at low speed	M_o	Nm		4	
Permanent current at low speed	I_o	A_{rms}		1,36	
Peak torque	M_p	Nm		13,4	--
Current for the peak torque	I_p	A_{rms}		5,47	--
Back emf constant at 1000 rpm (25°C)*	Ke	V_{rms}		179	
Torque sensitivity	Kt	Nm/A_{rms}		2,94	
Winding resistance (25°C)*	Rb	W		28,4	
Winding inductance*	L	mH		131	
Rotor inertia	J	kgm^2x10^{-5}		29	
Thermal time constant	Tth	min		12	
Motor mass	M	kg		3,8	
Voltage of the mains	UR1 UR2 UR3	V_{rms}	230	400	480
Rated speed	Nn1 Nn2 Nn3	t/min	900	2000	2300
Rated torque	Mn1 Mn2 Mn3	Nm	3,83	3,60	3,53
Rated current	In1 In2 In3	A_{rms}	1,30	1,23	1,21
Rated power	Pn1 Pn2 Pn3	W	360	750	850

All data are given in typical values under standard conditions

** Phase to phase*

Voltages and currents are given in rms values



BRUSHLESS MOTORS

NX420EAX

ELECTRONIC DRIVE

DRIVE 6 / 22 Arms

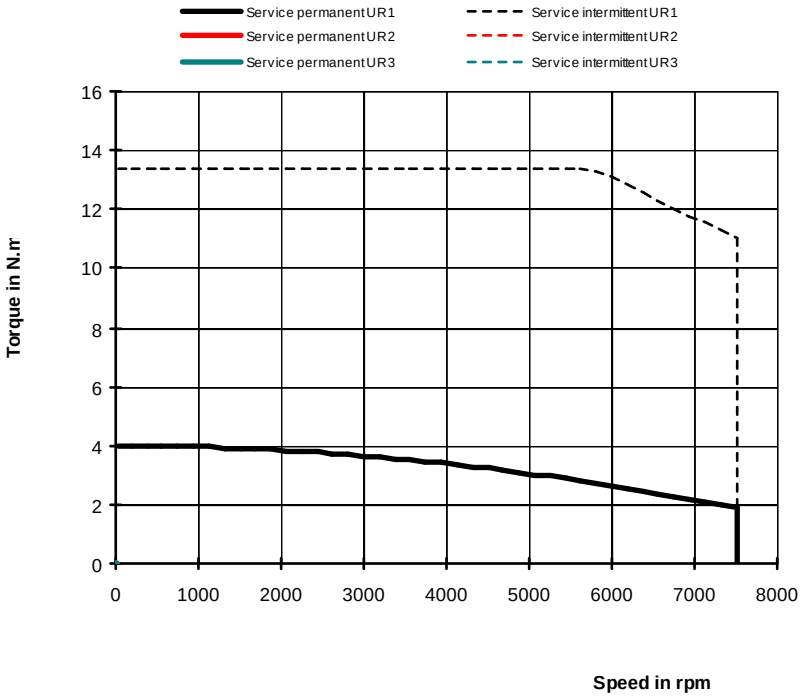
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V_{rms}		400	
Max **mechanical** speed	Nmax	t/min		12000	
Torque at low speed	M_o	Nm		4	
Permanent current at low speed	I_o	A_{rms}		5,42	
Peak torque	M_p	Nm		13,4	--
Current for the peak torque	I_p	A_{rms}		21,8	--
Back emf constant at 1000 rpm (25°C)*	Ke	V_{rms}		44,9	
Torque sensitivity	Kt	Nm/A_{rms}		0,738	
Winding resistance (25°C)*	Rb	W		1,8	
Winding inductance*	L	mH		8,24	
Rotor inertia	J	kgm^2x10^{-5}		29	
Thermal time constant	Tth	min		12	
Motor mass	M	kg		3,8	
Voltage of the mains	UR1 UR2 UR3	V_{rms}	400	-	-
Rated speed	Nn1 Nn2 Nn3	t/min	7500	-	-
Rated torque	Mn1 Mn2 Mn3	Nm	1,89	-	-
Rated current	In1 In2 In3	A_{rms}	2,72	-	-
Rated power	Pn1 Pn2 Pn3	W	1490	-	-

All data are given in typical values under standard conditions

** Phase to phase*

Voltages and currents are given in rms values



Characteristics are given for an optimal drive of the motor and an adaptative phase advance

BRUSHLESS MOTORS

NX430EAF

ELECTRONIC DRIVE

DRIVE 7 / 27 Arms

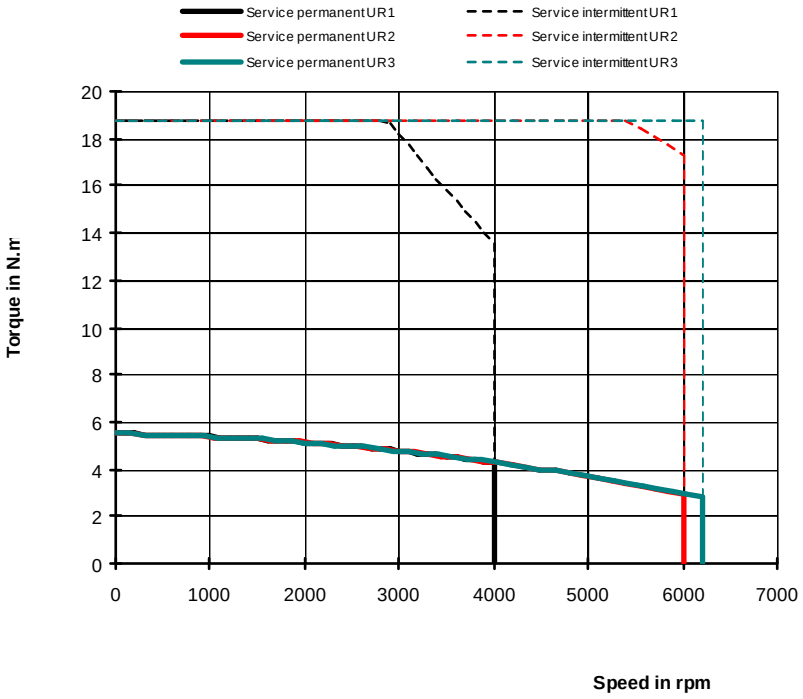
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V_{rms}		480	
Max **mechanical** speed	Nmax	t/min		12000	
Torque at low speed	M_o	Nm		5,5	
Permanent current at low speed	I_o	A_{rms}		6,64	
Peak torque	M_p	Nm		18,8	--
Current for the peak torque	I_p	A_{rms}		26,5	--
Back emf constant at 1000 rpm (25°C)*	Ke	V_{rms}		51,8	
Torque sensitivity	Kt	Nm/A_{rms}		0,828	
Winding resistance (25°C)*	Rb	W		1,38	
Winding inductance*	L	mH		6,8	
Rotor inertia	J	kgm^2x10^{-5}		42,6	
Thermal time constant	Tth	min		18	
Motor mass	M	kg		4,8	
Voltage of the mains	UR1 UR2 UR3	V_{rms}	230	400	480
Rated speed	Nn1 Nn2 Nn3	t/min	4000	6000	6200
Rated torque	Mn1 Mn2 Mn3	Nm	4,29	2,98	2,82
Rated current	In1 In2 In3	A_{rms}	5,28	3,76	3,58
Rated power	Pn1 Pn2 Pn3	W	1800	1870	1830

All data are given in typical values under standard conditions

** Phase to phase*

Voltages and currents are given in rms values



Characteristics are given for an optimal drive of the motor and an adaptative phase advance

BRUSHLESS MOTORS

NX430EAH

ELECTRONIC DRIVE

DRIVE 6 / 23 Arms

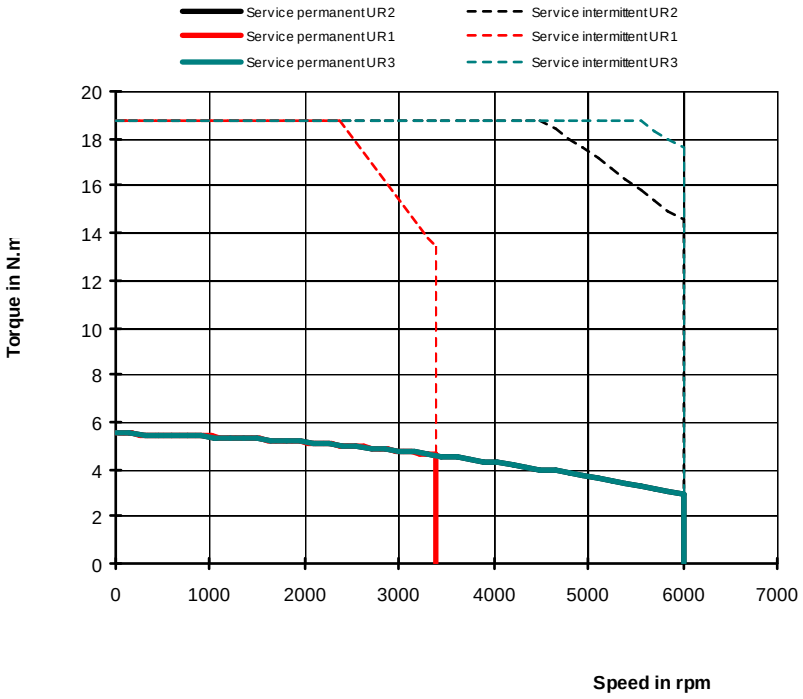
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V_{rms}		480	
Max **mechanical** speed	Nmax	t/min		12000	
Torque at low speed	M_o	Nm		5,5	
Permanent current at low speed	I_o	A_{rms}		5,64	
Peak torque	M_p	Nm		18,8	--
Current for the peak torque	I_p	A_{rms}		22,5	--
Back emf constant at 1000 rpm (25°C)*	Ke	V_{rms}		61	
Torque sensitivity	Kt	Nm/A_{rms}		0,975	
Winding resistance (25°C)*	Rb	W		1,81	
Winding inductance*	L	mH		9,44	
Rotor inertia	J	kgm^2x10^{-5}		42,6	
Thermal time constant	Tth	min		18	
Motor mass	M	kg		4,8	
Voltage of the mains	UR1 UR2 UR3	V_{rms}	230	400	480
Rated speed	Nn1 Nn2 Nn3	t/min	3400	6000	6000
Rated torque	Mn1 Mn2 Mn3	Nm	4,59	2,98	2,98
Rated current	In1 In2 In3	A_{rms}	4,78	3,19	3,19
Rated power	Pn1 Pn2 Pn3	W	1640	1870	1870

All data are given in typical values under standard conditions

** Phase to phase*

Voltages and currents are given in rms values



BRUSHLESS MOTORS

NX430EAJ

ELECTRONIC DRIVE

DRIVE 6 / 22 Arms

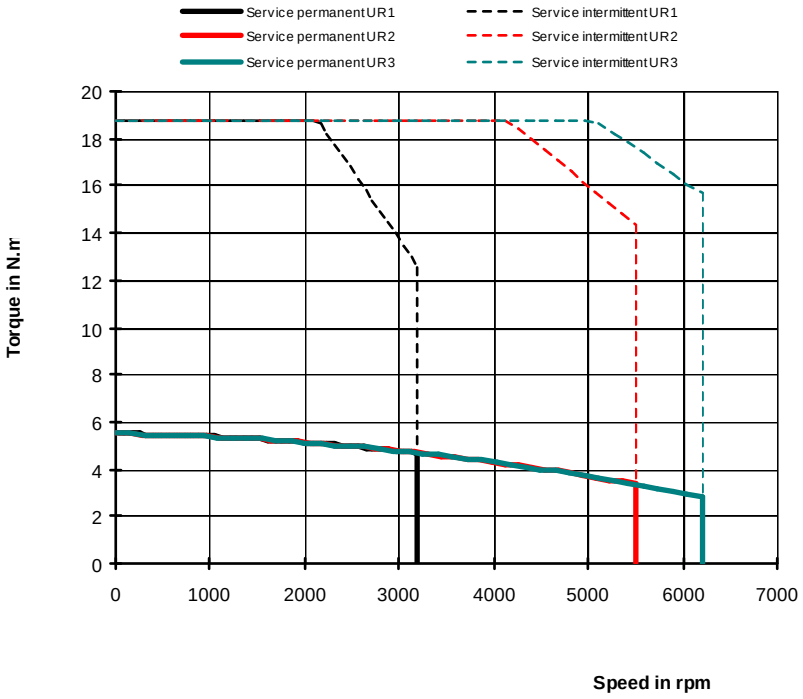
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V_{rms}		480	
Max **mechanical** speed	Nmax	t/min		12000	
Torque at low speed	M_o	Nm		5,5	
Permanent current at low speed	I_o	A_{rms}		5,24	
Peak torque	M_p	Nm		18,8	--
Current for the peak torque	I_p	A_{rms}		21	--
Back emf constant at 1000 rpm (25°C)*	Ke	V_{rms}		65,6	
Torque sensitivity	Kt	Nm/A_{rms}		1,05	
Winding resistance (25°C)*	Rb	W		2,19	
Winding inductance*	L	mH		10,9	
Rotor inertia	J	kgm^2x10^{-5}		42,6	
Thermal time constant	Tth	min		18	
Motor mass	M	kg		4,8	
Voltage of the mains	UR1 UR2 UR3	V_{rms}	230	400	480
Rated speed	Nn1 Nn2 Nn3	t/min	3200	5500	6200
Rated torque	Mn1 Mn2 Mn3	Nm	4,68	3,35	2,82
Rated current	In1 In2 In3	A_{rms}	4,53	3,31	2,83
Rated power	Pn1 Pn2 Pn3	W	1570	1930	1830

All data are given in typical values under standard conditions

** Phase to phase*

Voltages and currents are given in rms values



Characteristics are given for an optimal drive of the motor and an adaptative phase advance

BRUSHLESS MOTORS

NX430EAL

ELECTRONIC DRIVE

DRIVE 4 / 16 Arms

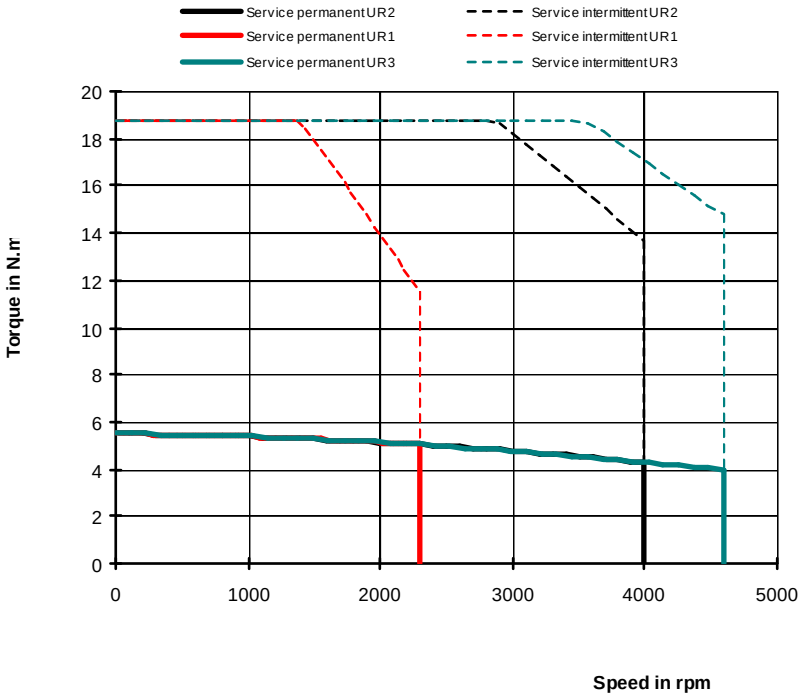
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V_{rms}		480	
Max **mechanical** speed	Nmax	t/min		12000	
Torque at low speed	M_o	Nm		5,5	
Permanent current at low speed	I_o	A_{rms}		3,78	
Peak torque	M_p	Nm		18,8	--
Current for the peak torque	I_p	A_{rms}		15,1	--
Back emf constant at 1000 rpm (25°C)*	Ke	V_{rms}		90,9	
Torque sensitivity	Kt	Nm/A_{rms}		1,45	
Winding resistance (25°C)*	Rb	W		4,22	
Winding inductance*	L	mH		21	
Rotor inertia	J	kgm^2x10^{-5}		42,6	
Thermal time constant	Tth	min		18	
Motor mass	M	kg		4,8	
Voltage of the mains	UR1 UR2 UR3	V_{rms}	230	400	480
Rated speed	Nn1 Nn2 Nn3	t/min	2300	4000	4600
Rated torque	Mn1 Mn2 Mn3	Nm	5,04	4,29	3,95
Rated current	In1 In2 In3	A_{rms}	3,49	3,01	2,78
Rated power	Pn1 Pn2 Pn3	W	1210	1800	1900

All data are given in typical values under standard conditions

** Phase to phase*

Voltages and currents are given in rms values



Characteristics are given for an optimal drive of the motor and an adaptative phase advance

BRUSHLESS MOTORS

NX430EAP

ELECTRONIC DRIVE

DRIVE 3 / 12 Arms

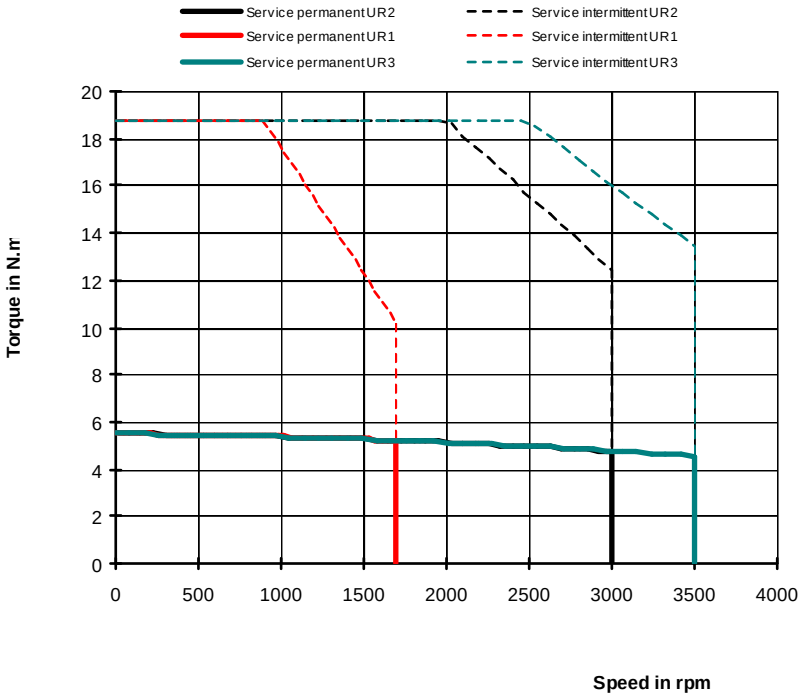
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V_{rms}		480	
Max **mechanical** speed	Nmax	t/min		12000	
Torque at low speed	M_o	Nm		5,5	
Permanent current at low speed	I_o	A_{rms}		2,82	
Peak torque	M_p	Nm		18,8	--
Current for the peak torque	I_p	A_{rms}		11,3	--
Back emf constant at 1000 rpm (25°C)*	Ke	V_{rms}		122	
Torque sensitivity	Kt	Nm/A_{rms}		1,95	
Winding resistance (25°C)*	Rb	W		7,26	
Winding inductance*	L	mH		37,8	
Rotor inertia	J	kgm^2x10^{-5}		42,6	
Thermal time constant	Tth	min		18	
Motor mass	M	kg		4,8	
Voltage of the mains	UR1 UR2 UR3	V_{rms}	230	400	480
Rated speed	Nn1 Nn2 Nn3	t/min	1700	3000	3500
Rated torque	Mn1 Mn2 Mn3	Nm	5,22	4,77	4,55
Rated current	In1 In2 In3	A_{rms}	2,69	2,48	2,37
Rated power	Pn1 Pn2 Pn3	W	930	1500	1670

All data are given in typical values under standard conditions

** Phase to phase*

Voltages and currents are given in rms values



Characteristics are given for an optimal drive of the motor and an adaptative phase advance

BRUSHLESS MOTORS

NX430EAV

ELECTRONIC DRIVE

DRIVE 1.5 / 6 Arms

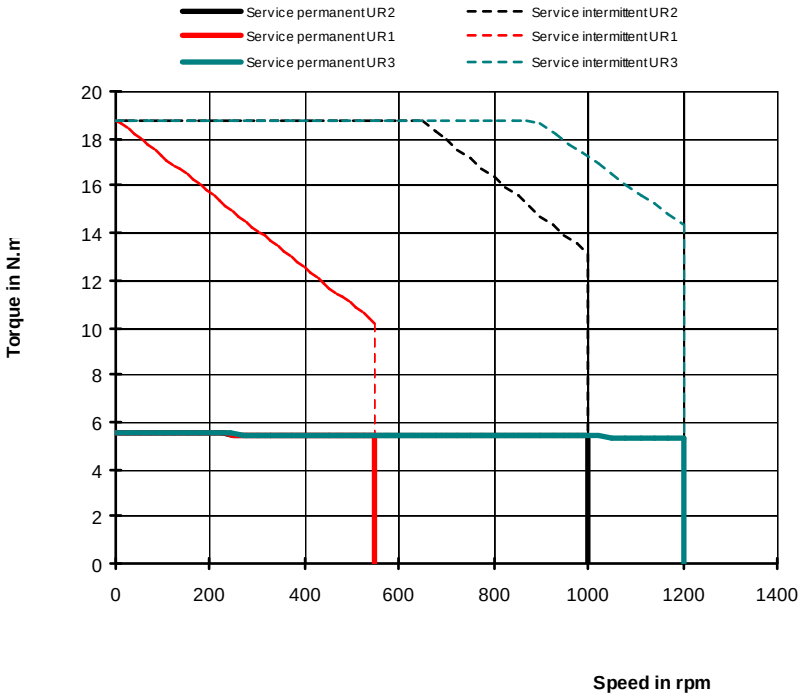
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V_{rms}		480	
Max **mechanical** speed	Nmax	t/min		12000	
Torque at low speed	M_o	Nm		5,5	
Permanent current at low speed	I_o	A_{rms}		1,41	
Peak torque	M_p	Nm		18,8	--
Current for the peak torque	I_p	A_{rms}		5,64	--
Back emf constant at 1000 rpm (25°C)*	Ke	V_{rms}		244	
Torque sensitivity	Kt	Nm/A_{rms}		3,9	
Winding resistance (25°C)*	Rb	W		29	
Winding inductance*	L	mH		151	
Rotor inertia	J	kgm^2x10^{-5}		42,6	
Thermal time constant	Tth	min		18	
Motor mass	M	kg		4,8	
Voltage of the mains	UR1 UR2 UR3	V_{rms}	230	400	480
Rated speed	Nn1 Nn2 Nn3	t/min	550	1000	1200
Rated torque	Mn1 Mn2 Mn3	Nm	5,45	5,38	5,34
Rated current	In1 In2 In3	A_{rms}	1,40	1,38	1,37
Rated power	Pn1 Pn2 Pn3	W	310	560	670

All data are given in typical values under standard conditions

** Phase to phase*

Voltages and currents are given in rms values



BRUSHLESS MOTORS

NX620EAD

ELECTRONIC DRIVE

DRIVE 13 / 50 Arms

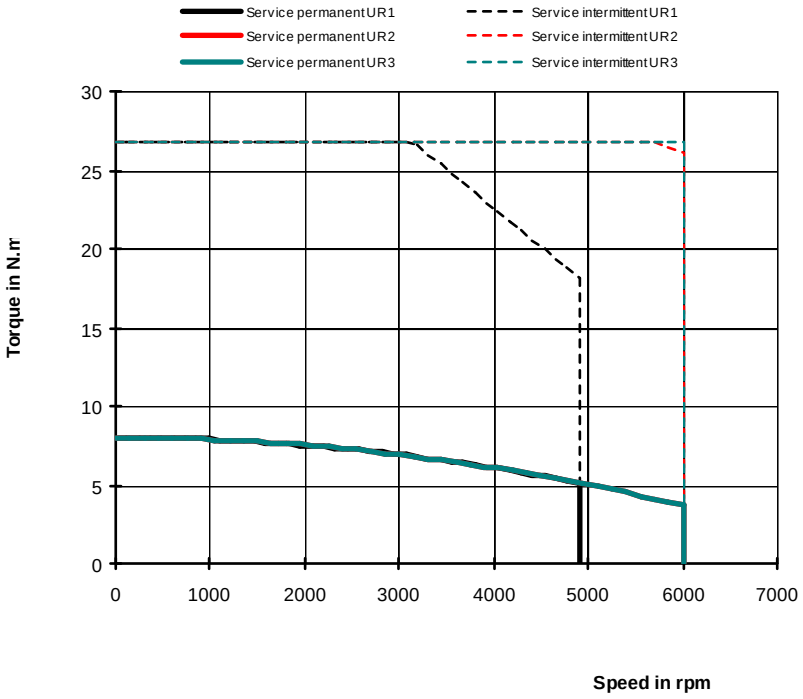
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V_{rms}		480	
Max **mechanical** speed	Nmax	t/min		10000	
Torque at low speed	M_o	Nm		8	
Permanent current at low speed	I_o	A_{rms}		12,1	
Peak torque	M_p	Nm		26,7	--
Current for the peak torque	I_p	A_{rms}		48,3	--
Back emf constant at 1000 rpm (25°C)*	Ke	V_{rms}		42	
Torque sensitivity	Kt	Nm/A_{rms}		0,662	
Winding resistance (25°C)*	Rb	W		0,439	
Winding inductance*	L	mH		3,69	
Rotor inertia	J	kgm^2x10^{-5}		98	
Thermal time constant	Tth	min		27	
Motor mass	M	kg		7	
Voltage of the mains	UR1 UR2 UR3	V_{rms}	230	400	480
Rated speed	Nn1 Nn2 Nn3	t/min	4900	6000	6000
Rated torque	Mn1 Mn2 Mn3	Nm	5,12	3,68	3,68
Rated current	In1 In2 In3	A_{rms}	8,23	6,19	6,19
Rated power	Pn1 Pn2 Pn3	W	2630	2310	2310

All data are given in typical values under standard conditions

** Phase to phase*

Voltages and currents are given in rms values



Characteristics are given for an optimal drive of the motor and an adaptative phase advance

BRUSHLESS MOTORS

NX620EAJ

ELECTRONIC DRIVE

DRIVE 10 / 40 Arms

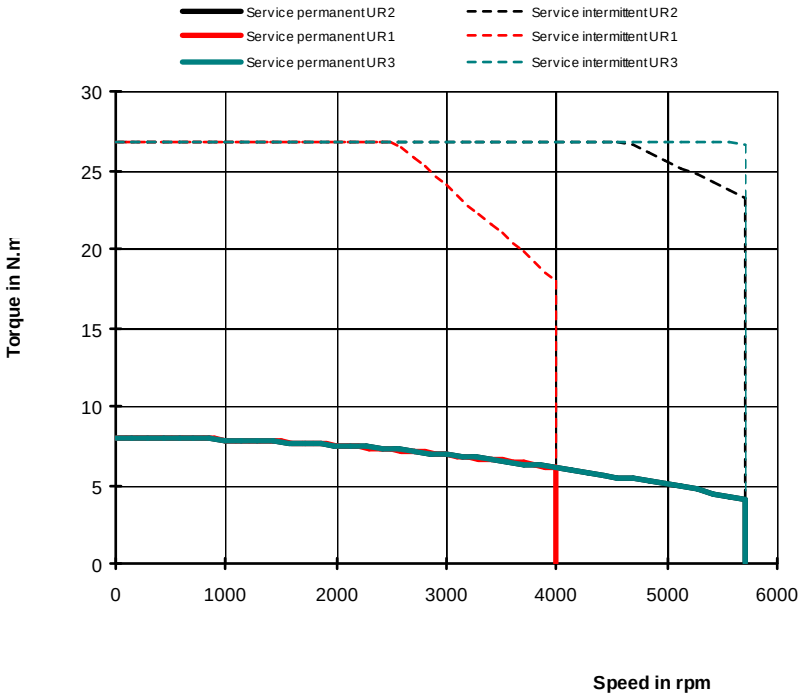
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V_{rms}		480	
Max **mechanical** speed	Nmax	t/min		10000	
Torque at low speed	M_o	Nm		8	
Permanent current at low speed	I_o	A_{rms}		9,89	
Peak torque	M_p	Nm		26,7	--
Current for the peak torque	I_p	A_{rms}		39,5	--
Back emf constant at 1000 rpm (25°C)*	Ke	V_{rms}		51,3	
Torque sensitivity	Kt	Nm/A_{rms}		0,809	
Winding resistance (25°C)*	Rb	W		0,603	
Winding inductance*	L	mH		5,52	
Rotor inertia	J	kgm^2x10^{-5}		98	
Thermal time constant	Tth	min		27	
Motor mass	M	kg		7	
Voltage of the mains	UR1 UR2 UR3	V_{rms}	230	400	480
Rated speed	Nn1 Nn2 Nn3	t/min	4000	5700	5700
Rated torque	Mn1 Mn2 Mn3	Nm	6,08	4,10	4,10
Rated current	In1 In2 In3	A_{rms}	7,82	5,56	5,56
Rated power	Pn1 Pn2 Pn3	W	2550	2450	2450

All data are given in typical values under standard conditions

** Phase to phase*

Voltages and currents are given in rms values



Characteristics are given for an optimal drive of the motor and an adaptative phase advance

BRUSHLESS MOTORS

NX620EAR

ELECTRONIC DRIVE

DRIVE 6 / 22 Arms

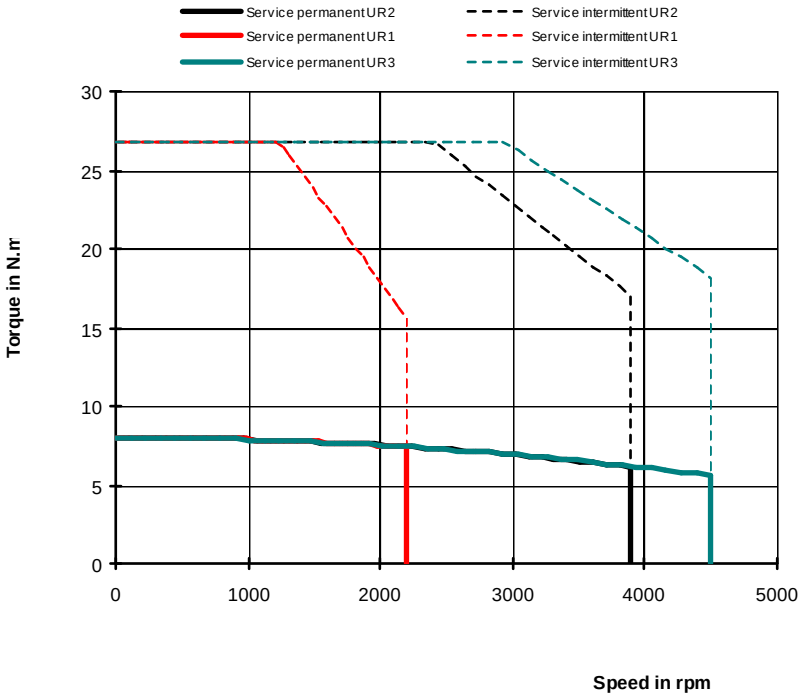
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V_{rms}		480	
Max **mechanical** speed	Nmax	t/min		10000	
Torque at low speed	M_o	Nm		8	
Permanent current at low speed	I_o	A_{rms}		5,31	
Peak torque	M_p	Nm		26,7	--
Current for the peak torque	I_p	A_{rms}		21,2	--
Back emf constant at 1000 rpm (25°C)*	Ke	V_{rms}		95,7	
Torque sensitivity	Kt	Nm/A_{rms}		1,51	
Winding resistance (25°C)*	Rb	W		2,24	
Winding inductance*	L	mH		19,2	
Rotor inertia	J	kgm^2x10^{-5}		98	
Thermal time constant	Tth	min		27	
Motor mass	M	kg		7	
Voltage of the mains	UR1 UR2 UR3	V_{rms}	230	400	480
Rated speed	Nn1 Nn2 Nn3	t/min	2200	3900	4500
Rated torque	Mn1 Mn2 Mn3	Nm	7,42	6,17	5,57
Rated current	In1 In2 In3	A_{rms}	4,99	4,25	3,89
Rated power	Pn1 Pn2 Pn3	W	1710	2520	2620

All data are given in typical values under standard conditions

** Phase to phase*

Voltages and currents are given in rms values



Characteristics are given for an optimal drive of the motor and an adaptative phase advance

BRUSHLESS MOTORS

NX620EAV

ELECTRONIC DRIVE

DRIVE 3 / 12 Arms

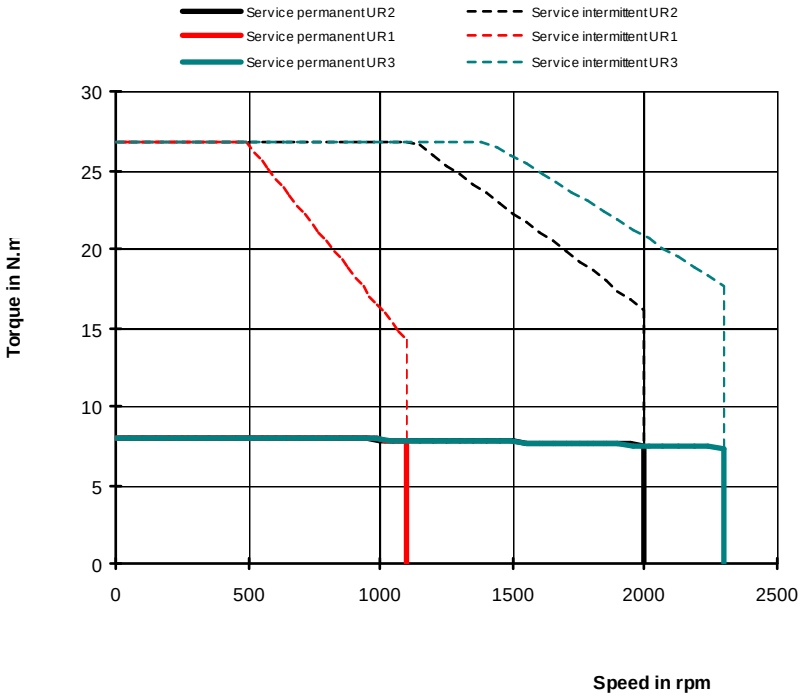
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V_{rms}		480	
Max **mechanical** speed	Nmax	t/min		10000	
Torque at low speed	M_o	Nm		8	
Permanent current at low speed	I_o	A_{rms}		2,83	
Peak torque	M_p	Nm		26,7	--
Current for the peak torque	I_p	A_{rms}		11,3	--
Back emf constant at 1000 rpm (25°C)*	Ke	V_{rms}		180	
Torque sensitivity	Kt	Nm/A_{rms}		2,83	
Winding resistance (25°C)*	Rb	W		7,9	
Winding inductance*	L	mH		67,6	
Rotor inertia	J	kgm^2x10^{-5}		98	
Thermal time constant	Tth	min		27	
Motor mass	M	kg		7	
Voltage of the mains	UR1 UR2 UR3	V_{rms}	230	400	480
Rated speed	Nn1 Nn2 Nn3	t/min	1100	2000	2300
Rated torque	Mn1 Mn2 Mn3	Nm	7,85	7,52	7,36
Rated current	In1 In2 In3	A_{rms}	2,79	2,69	2,64
Rated power	Pn1 Pn2 Pn3	W	900	1570	1770

All data are given in typical values under standard conditions

** Phase to phase*

Voltages and currents are given in rms values



Characteristics are given for an optimal drive of the motor and an adaptative phase advance

BRUSHLESS MOTORS

NX630EAG

ELECTRONIC DRIVE

DRIVE 14 / 56 Arms

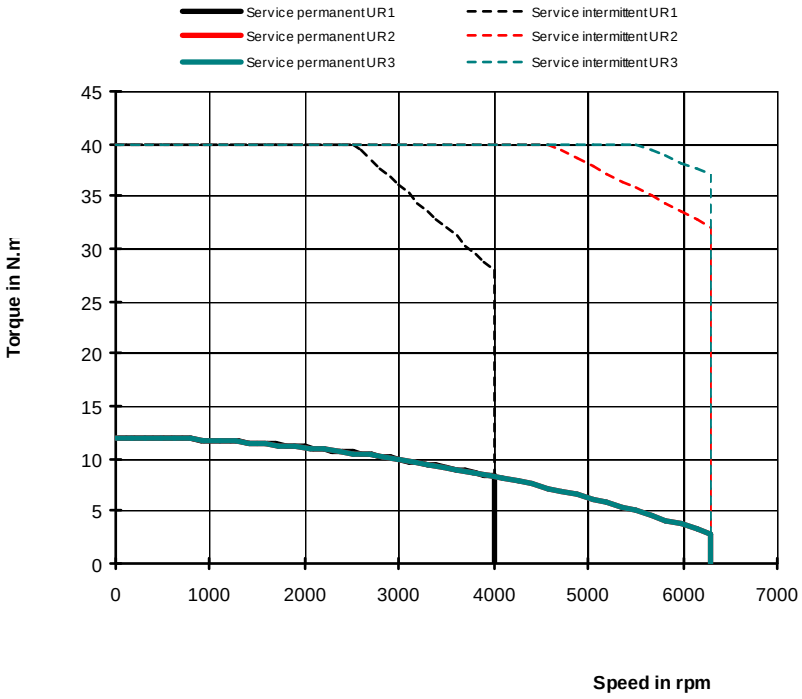
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V_{rms}		480	
Max **mechanical** speed	Nmax	t/min		10000	
Torque at low speed	M_o	Nm		12	
Permanent current at low speed	I_o	A_{rms}		13,9	
Peak torque	M_p	Nm		40,0	--
Current for the peak torque	I_p	A_{rms}		55,6	--
Back emf constant at 1000 rpm (25°C)*	Ke	V_{rms}		52,1	
Torque sensitivity	Kt	Nm/A_{rms}		0,861	
Winding resistance (25°C)*	Rb	W		0,341	
Winding inductance*	L	mH		3,53	
Rotor inertia	J	kgm^2x10^{-5}		147	
Thermal time constant	Tth	min		33	
Motor mass	M	kg		8,9	
Voltage of the mains	UR1 UR2 UR3	V_{rms}	230	400	480
Rated speed	Nn1 Nn2 Nn3	t/min	4000	6300	6300
Rated torque	Mn1 Mn2 Mn3	Nm	8,31	2,86	2,86
Rated current	In1 In2 In3	A_{rms}	10,10	4,00	4,00
Rated power	Pn1 Pn2 Pn3	W	3480	1890	1890

All data are given in typical values under standard conditions

** Phase to phase*

Voltages and currents are given in rms values



Characteristics are given for an optimal drive of the motor and an adaptative phase advance

BRUSHLESS MOTORS

NX630EAK

ELECTRONIC DRIVE

DRIVE 10 / 40 Arms

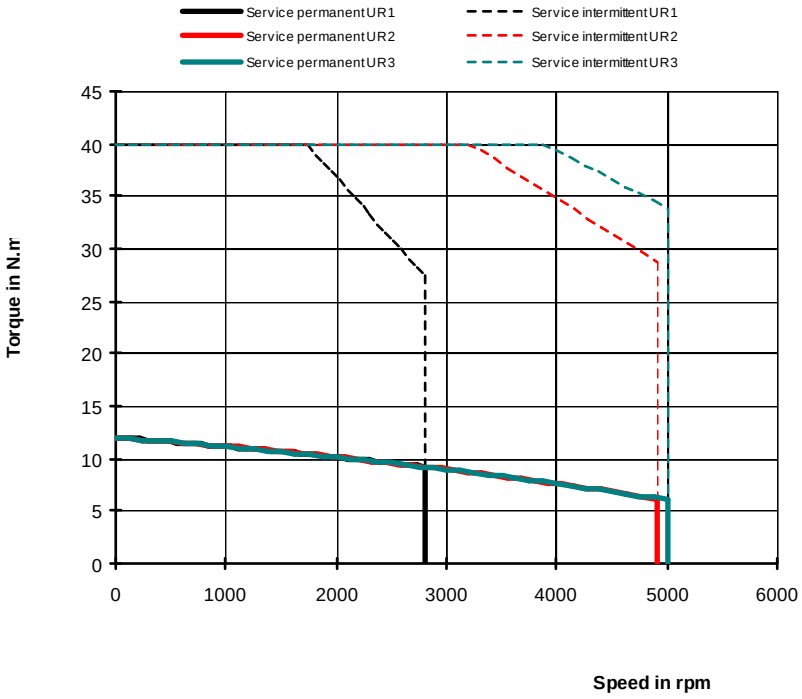
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V_{rms}		480	
Max **mechanical** speed	Nmax	t/min		10000	
Torque at low speed	M_o	Nm		12	
Permanent current at low speed	I_o	A_{rms}		9,86	
Peak torque	M_p	Nm		40,0	--
Current for the peak torque	I_p	A_{rms}		39,4	--
Back emf constant at 1000 rpm (25°C)*	Ke	V_{rms}		73,6	
Torque sensitivity	Kt	Nm/A_{rms}		1,22	
Winding resistance (25°C)*	Rb	W		0,674	
Winding inductance*	L	mH		7,06	
Rotor inertia	J	kgm^2x10^{-5}		147	
Thermal time constant	Tth	min		33	
Motor mass	M	kg		8,9	
Voltage of the mains	UR1 UR2 UR3	V_{rms}	230	400	480
Rated speed	Nn1 Nn2 Nn3	t/min	2800	4900	5000
Rated torque	Mn1 Mn2 Mn3	Nm	9,21	6,23	6,07
Rated current	In1 In2 In3	A_{rms}	7,80	5,53	5,41
Rated power	Pn1 Pn2 Pn3	W	2700	3190	3180

All data are given in typical values under standard conditions

** Phase to phase*

Voltages and currents are given in rms values



Characteristics are given for an optimal drive of the motor and an adaptative phase advance

BRUSHLESS MOTORS

NX630EAN

ELECTRONIC DRIVE

DRIVE 8 / 32 Arms

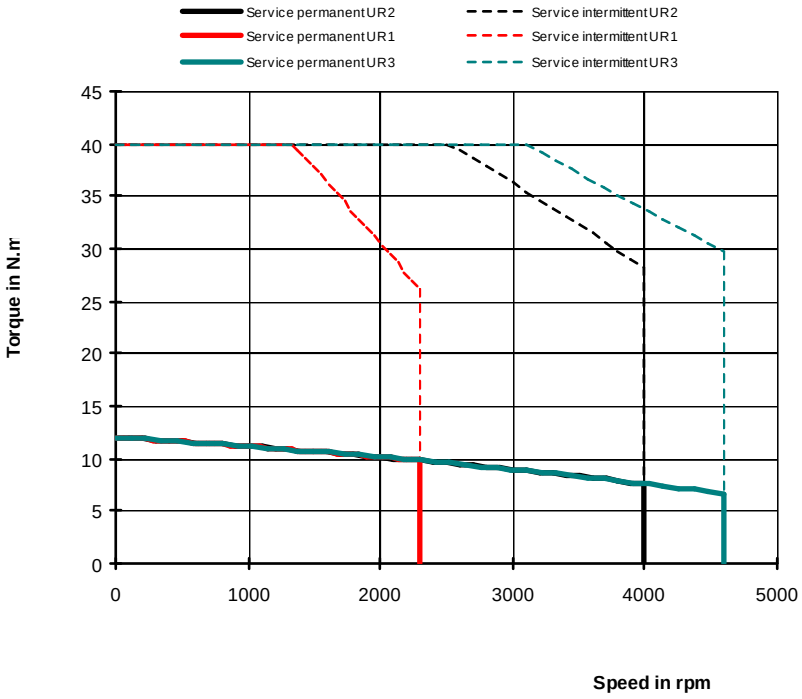
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V_{rms}		480	
Max **mechanical** speed	Nmax	t/min		10000	
Torque at low speed	M_o	Nm		12	
Permanent current at low speed	I_o	A_{rms}		7,93	
Peak torque	M_p	Nm		40,0	--
Current for the peak torque	I_p	A_{rms}		31,6	--
Back emf constant at 1000 rpm (25°C)*	Ke	V_{rms}		91,6	
Torque sensitivity	Kt	Nm/A_{rms}		1,51	
Winding resistance (25°C)*	Rb	W		1,12	
Winding inductance*	L	mH		10,9	
Rotor inertia	J	kgm^2x10^{-5}		147	
Thermal time constant	Tth	min		33	
Motor mass	M	kg		8,9	
Voltage of the mains	UR1 UR2 UR3	V_{rms}	230	400	480
Rated speed	Nn1 Nn2 Nn3	t/min	2300	4000	4600
Rated torque	Mn1 Mn2 Mn3	Nm	9,81	7,60	6,70
Rated current	In1 In2 In3	A_{rms}	6,63	5,30	4,74
Rated power	Pn1 Pn2 Pn3	W	2360	3180	3230

All data are given in typical values under standard conditions

** Phase to phase*

Voltages and currents are given in rms values



Characteristics are given for an optimal drive of the motor and an adaptative phase advance

BRUSHLESS MOTORS

NX630EAR

ELECTRONIC DRIVE

DRIVE 6 / 22 Arms

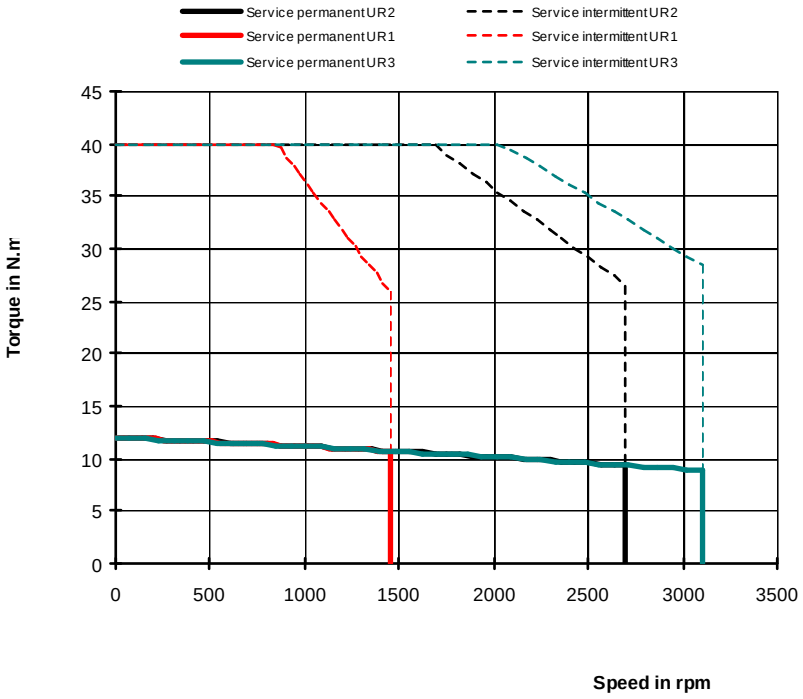
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V_{rms}		480	
Max **mechanical** speed	Nmax	t/min		10000	
Torque at low speed	M_o	Nm		12	
Permanent current at low speed	I_o	A_{rms}		5,25	
Peak torque	M_p	Nm		40,0	--
Current for the peak torque	I_p	A_{rms}		21	--
Back emf constant at 1000 rpm (25°C)*	Ke	V_{rms}		138	
Torque sensitivity	Kt	Nm/A_{rms}		2,29	
Winding resistance (25°C)*	Rb	W		2,43	
Winding inductance*	L	mH		24,9	
Rotor inertia	J	kgm^2x10^{-5}		147	
Thermal time constant	Tth	min		33	
Motor mass	M	kg		8,9	
Voltage of the mains	UR1 UR2 UR3	V_{rms}	230	400	480
Rated speed	Nn1 Nn2 Nn3	t/min	1450	2700	3100
Rated torque	Mn1 Mn2 Mn3	Nm	10,73	9,34	8,84
Rated current	In1 In2 In3	A_{rms}	4,75	4,20	4,00
Rated power	Pn1 Pn2 Pn3	W	1630	2640	2870

All data are given in typical values under standard conditions

** Phase to phase*

Voltages and currents are given in rms values



BRUSHLESS MOTORS

NX630EAV

ELECTRONIC DRIVE

DRIVE 3 / 11 Arms

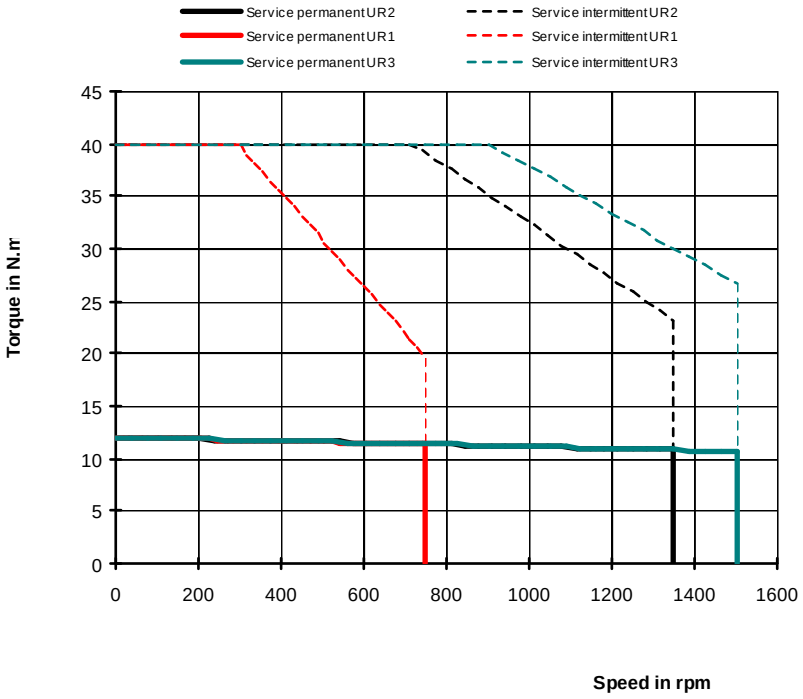
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V_{rms}		480	
Max **mechanical** speed	Nmax	t/min		10000	
Torque at low speed	M_o	Nm		12	
Permanent current at low speed	I_o	A_{rms}		2,62	
Peak torque	M_p	Nm		40,0	--
Current for the peak torque	I_p	A_{rms}		10,5	--
Back emf constant at 1000 rpm (25°C)*	Ke	V_{rms}		277	
Torque sensitivity	Kt	Nm/A_{rms}		4,57	
Winding resistance (25°C)*	Rb	W		9,19	
Winding inductance*	L	mH		99,6	
Rotor inertia	J	kgm^2x10^{-5}		147	
Thermal time constant	Tth	min		33	
Motor mass	M	kg		8,9	
Voltage of the mains	UR1 UR2 UR3	V_{rms}	230	400	480
Rated speed	Nn1 Nn2 Nn3	t/min	750	1350	1500
Rated torque	Mn1 Mn2 Mn3	Nm	11,39	10,83	10,68
Rated current	In1 In2 In3	A_{rms}	2,51	2,40	2,37
Rated power	Pn1 Pn2 Pn3	W	890	1530	1680

All data are given in typical values under standard conditions

** Phase to phase*

Voltages and currents are given in rms values



Characteristics are given for an optimal drive of the motor and an adaptative phase advance

BRUSHLESS MOTORS

NX820EAL

ELECTRONIC DRIVE

DRIVE 18 / 70 Arms

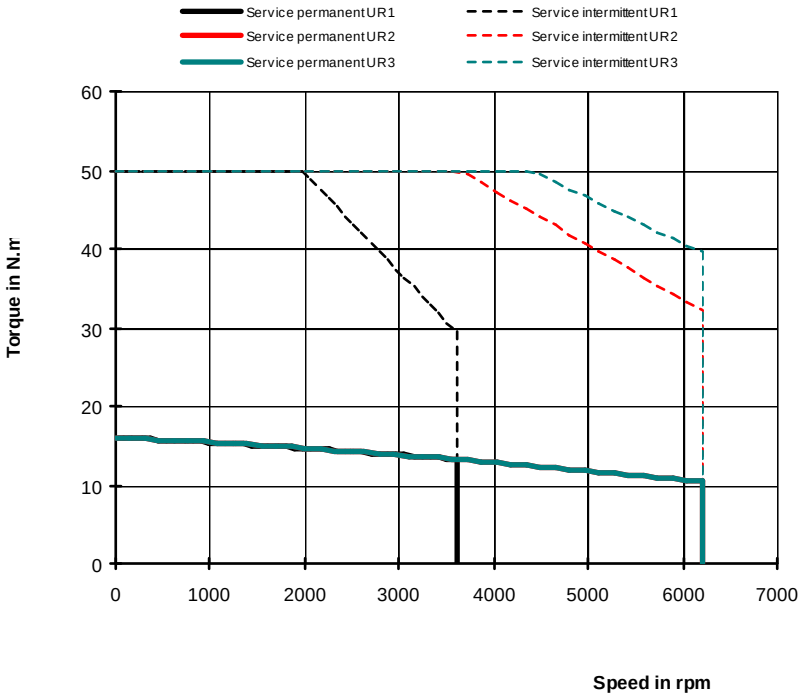
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V_{rms}		480	
Max **mechanical** speed	Nmax	t/min		8000	
Torque at low speed	M_o	Nm		16	
Permanent current at low speed	I_o	A_{rms}		17,6	
Peak torque	M_p	Nm		50,0	--
Current for the peak torque	I_p	A_{rms}		69,1	--
Back emf constant at 1000 rpm (25°C)*	Ke	V_{rms}		56,9	
Torque sensitivity	Kt	Nm/A_{rms}		0,912	
Winding resistance (25°C)*	Rb	W		0,379	
Winding inductance*	L	mH		3,35	
Rotor inertia	J	kgm^2x10^{-5}		320	
Thermal time constant	Tth	min		34	
Motor mass	M	kg		13	
Voltage of the mains	UR1 UR2 UR3	V_{rms}	230	400	480
Rated speed	Nn1 Nn2 Nn3	t/min	3600	6200	6200
Rated torque	Mn1 Mn2 Mn3	Nm	13,24	10,35	10,35
Rated current	In1 In2 In3	A_{rms}	14,82	11,90	11,90
Rated power	Pn1 Pn2 Pn3	W	4990	6720	6720

All data are given in typical values under standard conditions

** Phase to phase*

Voltages and currents are given in rms values



Characteristics are given for an optimal drive of the motor and an adaptative phase advance

BRUSHLESS MOTORS

NX820EAR

ELECTRONIC DRIVE

DRIVE 12 / 44 Arms

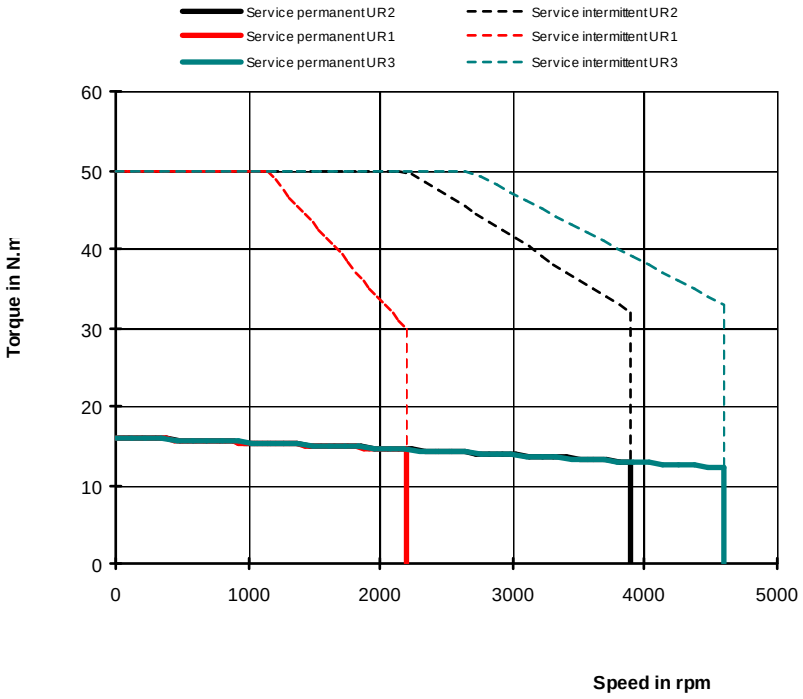
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V_{rms}		480	
Max **mechanical** speed	Nmax	t/min		8000	
Torque at low speed	M_o	Nm		16	
Permanent current at low speed	I_o	A_{rms}		11	
Peak torque	M_p	Nm		50,0	--
Current for the peak torque	I_p	A_{rms}		43,2	--
Back emf constant at 1000 rpm (25°C)*	Ke	V_{rms}		91	
Torque sensitivity	Kt	Nm/A_{rms}		1,46	
Winding resistance (25°C)*	Rb	W		1,01	
Winding inductance*	L	mH		8,57	
Rotor inertia	J	kgm^2x10^{-5}		320	
Thermal time constant	Tth	min		34	
Motor mass	M	kg		13	
Voltage of the mains	UR1 UR2 UR3	V_{rms}	230	400	480
Rated speed	Nn1 Nn2 Nn3	t/min	2200	3900	4600
Rated torque	Mn1 Mn2 Mn3	Nm	14,48	12,94	12,22
Rated current	In1 In2 In3	A_{rms}	10,04	9,07	8,62
Rated power	Pn1 Pn2 Pn3	W	3340	5290	5880

All data are given in typical values under standard conditions

** Phase to phase*

Voltages and currents are given in rms values



Characteristics are given for an optimal drive of the motor and an adaptative phase advance

BRUSHLESS MOTORS

NX820EAX

ELECTRONIC DRIVE

DRIVE 6 / 21 Arms

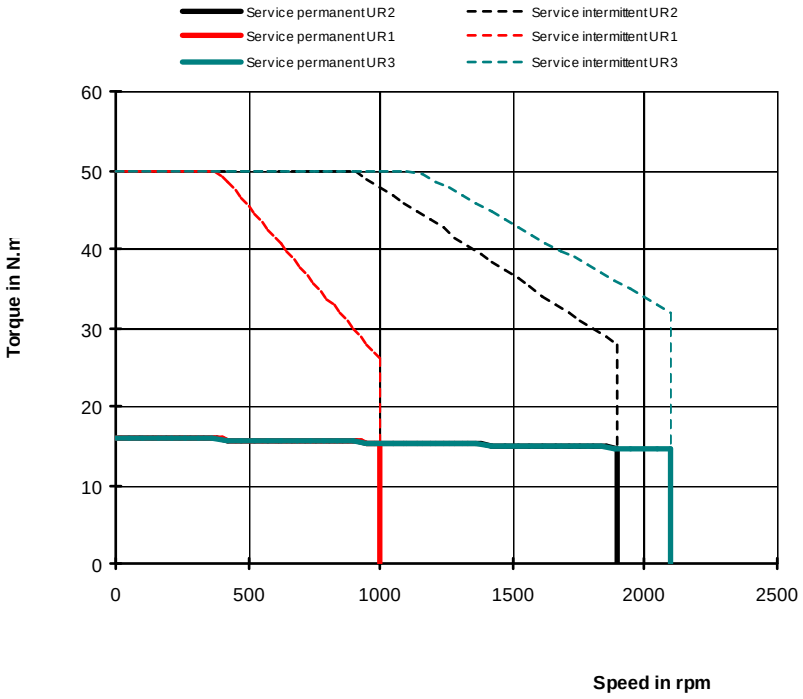
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V_{rms}		480	
Max **mechanical** speed	Nmax	t/min		8000	
Torque at low speed	M_o	Nm		16	
Permanent current at low speed	I_o	A_{rms}		5,16	
Peak torque	M_p	Nm		50,0	--
Current for the peak torque	I_p	A_{rms}		20,3	--
Back emf constant at 1000 rpm (25°C)*	Ke	V_{rms}		193	
Torque sensitivity	Kt	Nm/A_{rms}		3,1	
Winding resistance (25°C)*	Rb	W		4,53	
Winding inductance*	L	mH		38,7	
Rotor inertia	J	kgm^2x10^{-5}		320	
Thermal time constant	Tth	min		34	
Motor mass	M	kg		13	
Voltage of the mains	UR1 UR2 UR3	V_{rms}	230	400	480
Rated speed	Nn1 Nn2 Nn3	t/min	1000	1900	2100
Rated torque	Mn1 Mn2 Mn3	Nm	15,38	14,72	14,56
Rated current	In1 In2 In3	A_{rms}	4,99	4,79	4,75
Rated power	Pn1 Pn2 Pn3	W	1610	2930	3200

All data are given in typical values under standard conditions

** Phase to phase*

Voltages and currents are given in rms values



Characteristics are given for an optimal drive of the motor and an adaptative phase advance

BRUSHLESS MOTORS

NX840EAJ

ELECTRONIC DRIVE

DRIVE 20 / 75 Arms

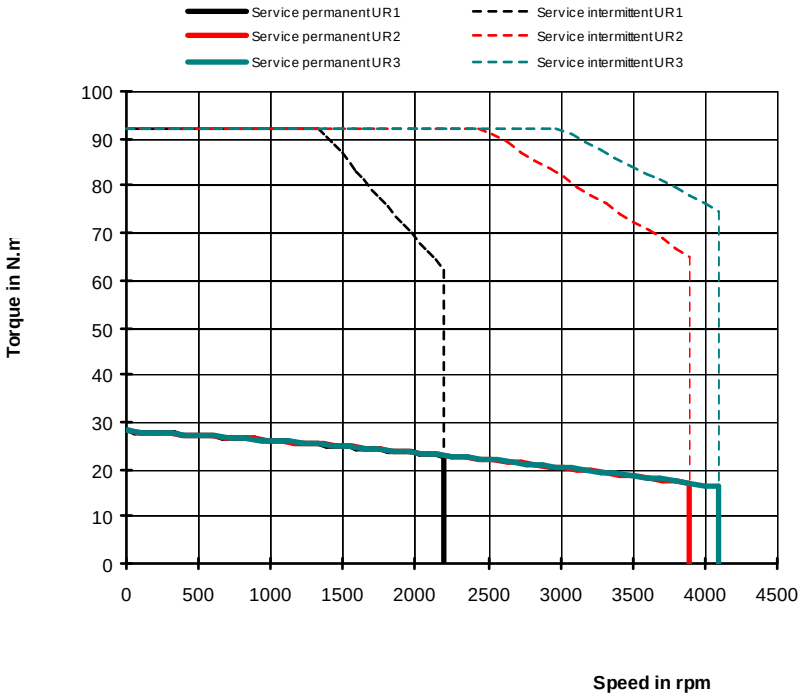
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V_{rms}		480	
Max **mechanical** speed	Nmax	t/min		8000	
Torque at low speed	M_o	Nm		28	
Permanent current at low speed	I_o	A_{rms}		18,9	
Peak torque	M_p	Nm		92,0	--
Current for the peak torque	I_p	A_{rms}		74,8	--
Back emf constant at 1000 rpm (25°C)*	Ke	V_{rms}		92,8	
Torque sensitivity	Kt	Nm/A_{rms}		1,48	
Winding resistance (25°C)*	Rb	W		0,371	
Winding inductance*	L	mH		4,28	
Rotor inertia	J	kgm^2x10^{-5}		620	
Thermal time constant	Tth	min		52	
Motor mass	M	kg		20	
Voltage of the mains	UR1 UR2 UR3	V_{rms}	230	400	480
Rated speed	Nn1 Nn2 Nn3	t/min	2200	3900	4100
Rated torque	Mn1 Mn2 Mn3	Nm	22,88	17,04	16,25
Rated current	In1 In2 In3	A_{rms}	15,70	11,99	11,48
Rated power	Pn1 Pn2 Pn3	W	5270	6960	6980

All data are given in typical values under standard conditions

** Phase to phase*

Voltages and currents are given in rms values



Characteristics are given for an optimal drive of the motor and an adaptative phase advance

BRUSHLESS MOTORS

NX840EAK

ELECTRONIC DRIVE

DRIVE 17 / 67 Arms

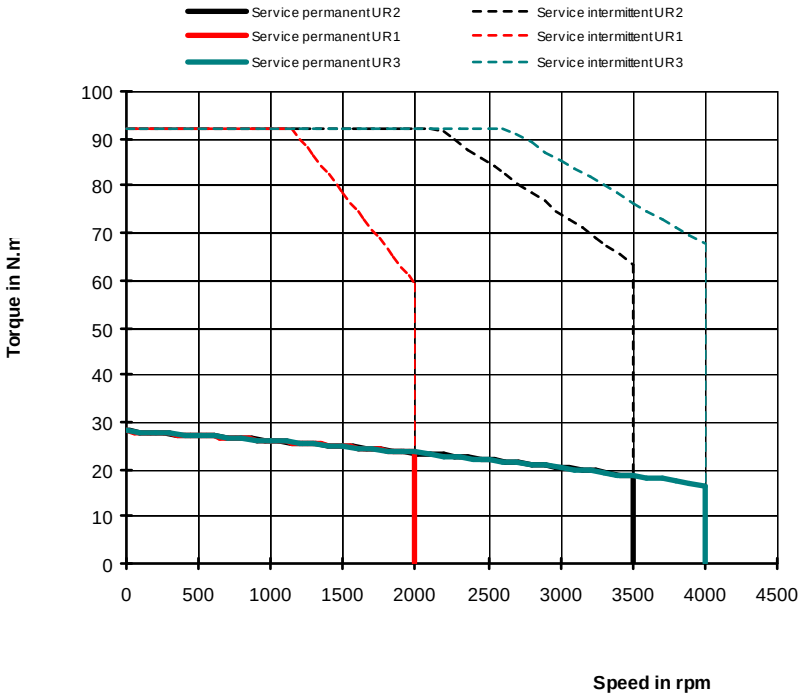
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V_{rms}		480	
Max **mechanical** speed	Nmax	t/min		8000	
Torque at low speed	M_o	Nm		28	
Permanent current at low speed	I_o	A_{rms}		16,8	
Peak torque	M_p	Nm		92,0	--
Current for the peak torque	I_p	A_{rms}		66,5	--
Back emf constant at 1000 rpm (25°C)*	Ke	V_{rms}		104	
Torque sensitivity	Kt	Nm/A_{rms}		1,67	
Winding resistance (25°C)*	Rb	W		0,493	
Winding inductance*	L	mH		5,42	
Rotor inertia	J	kgm^2x10^{-5}		620	
Thermal time constant	Tth	min		52	
Motor mass	M	kg		20	
Voltage of the mains	UR1 UR2 UR3	V_{rms}	230	400	480
Rated speed	Nn1 Nn2 Nn3	t/min	2000	3500	4000
Rated torque	Mn1 Mn2 Mn3	Nm	23,45	18,56	16,65
Rated current	In1 In2 In3	A_{rms}	14,28	11,51	10,43
Rated power	Pn1 Pn2 Pn3	W	4910	6800	6970

All data are given in typical values under standard conditions

** Phase to phase*

Voltages and currents are given in rms values



BRUSHLESS MOTORS

NX840EAL

ELECTRONIC DRIVE

DRIVE 16 / 60 Arms

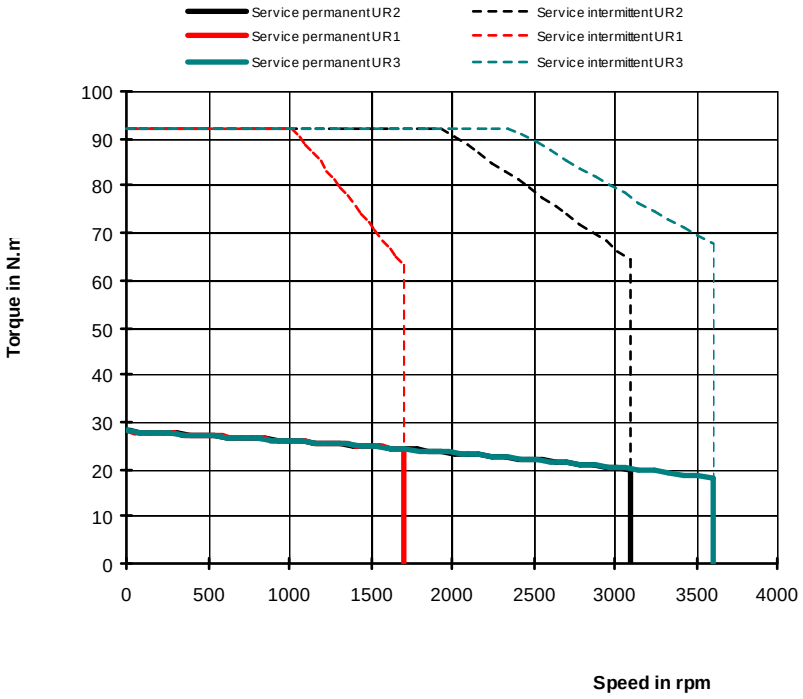
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V_{rms}		480	
Max **mechanical** speed	Nmax	t/min		8000	
Torque at low speed	M_o	Nm		28	
Permanent current at low speed	I_o	A_{rms}		15,1	
Peak torque	M_p	Nm		92,0	--
Current for the peak torque	I_p	A_{rms}		59,8	--
Back emf constant at 1000 rpm (25°C)*	Ke	V_{rms}		116	
Torque sensitivity	Kt	Nm/A_{rms}		1,85	
Winding resistance (25°C)*	Rb	W		0,579	
Winding inductance*	L	mH		6,69	
Rotor inertia	J	kgm^2x10^{-5}		620	
Thermal time constant	Tth	min		52	
Motor mass	M	kg		20	
Voltage of the mains	UR1 UR2 UR3	V_{rms}	230	400	480
Rated speed	Nn1 Nn2 Nn3	t/min	1700	3100	3600
Rated torque	Mn1 Mn2 Mn3	Nm	24,28	19,99	18,19
Rated current	In1 In2 In3	A_{rms}	13,27	11,09	10,17
Rated power	Pn1 Pn2 Pn3	W	4320	6490	6860

All data are given in typical values under standard conditions

** Phase to phase*

Voltages and currents are given in rms values



BRUSHLESS MOTORS

NX840EAQ

ELECTRONIC DRIVE

DRIVE 11 / 40 Arms

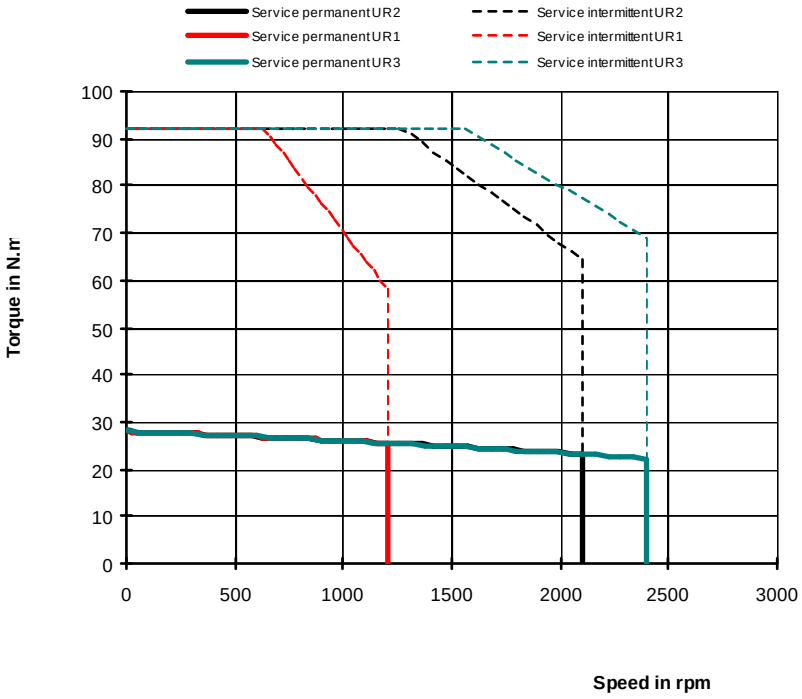
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V_{rms}		480	
Max **mechanical** speed	Nmax	t/min		8000	
Torque at low speed	M_o	Nm		28	
Permanent current at low speed	I_o	A_{rms}		10,1	
Peak torque	M_p	Nm		92,0	--
Current for the peak torque	I_p	A_{rms}		39,9	--
Back emf constant at 1000 rpm (25°C)*	Ke	V_{rms}		174	
Torque sensitivity	Kt	Nm/A_{rms}		2,78	
Winding resistance (25°C)*	Rb	W		1,36	
Winding inductance*	L	mH		15,1	
Rotor inertia	J	kgm^2x10^{-5}		620	
Thermal time constant	Tth	min		52	
Motor mass	M	kg		20	
Voltage of the mains	UR1 UR2 UR3	V_{rms}	230	400	480
Rated speed	Nn1 Nn2 Nn3	t/min	1200	2100	2400
Rated torque	Mn1 Mn2 Mn3	Nm	25,54	23,17	22,27
Rated current	In1 In2 In3	A_{rms}	9,27	8,47	8,17
Rated power	Pn1 Pn2 Pn3	W	3210	5090	5600

All data are given in typical values under standard conditions

** Phase to phase*

Voltages and currents are given in rms values



BRUSHLESS MOTORS

NX860EAD

ELECTRONIC DRIVE

DRIVE 35 / 135 Arms

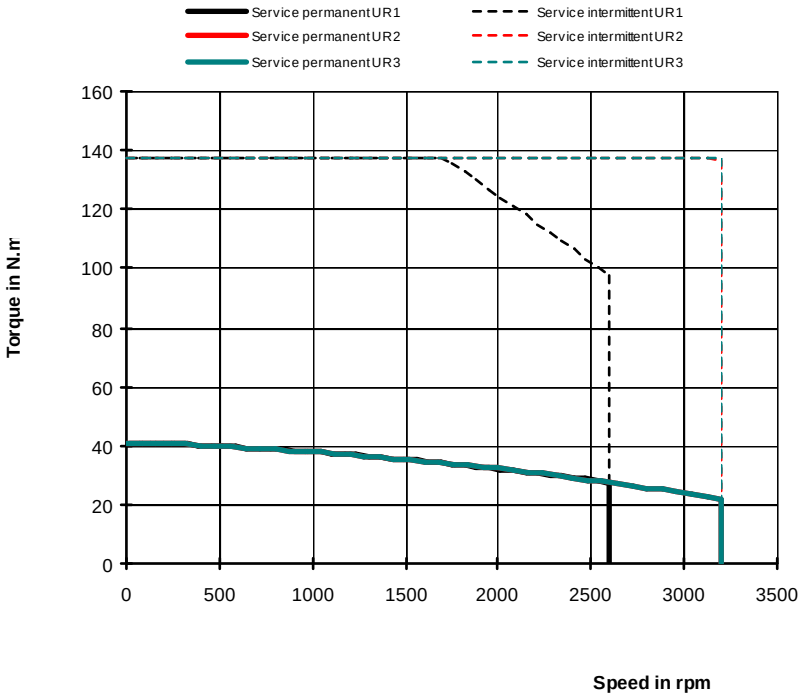
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V_{rms}		480	
Max **mechanical** speed	Nmax	t/min		8000	
Torque at low speed	M_o	Nm		41	
Permanent current at low speed	I_o	A_{rms}		33	
Peak torque	M_p	Nm		137,0	--
Current for the peak torque	I_p	A_{rms}		132	--
Back emf constant at 1000 rpm (25°C)*	Ke	V_{rms}		78,7	
Torque sensitivity	Kt	Nm/A_{rms}		1,24	
Winding resistance (25°C)*	Rb	W		0,156	
Winding inductance*	L	mH		2,03	
Rotor inertia	J	kgm^2x10^{-5}		920	
Thermal time constant	Tth	min		60	
Motor mass	M	kg		27	
Voltage of the mains	UR1 UR2 UR3	V_{rms}	230	400	480
Rated speed	Nn1 Nn2 Nn3	t/min	2600	3200	3200
Rated torque	Mn1 Mn2 Mn3	Nm	27,47	21,89	21,89
Rated current	In1 In2 In3	A_{rms}	22,51	18,19	18,19
Rated power	Pn1 Pn2 Pn3	W	7480	7340	7340

All data are given in typical values under standard conditions

** Phase to phase*

Voltages and currents are given in rms values



BRUSHLESS MOTORS

NX860EAF

ELECTRONIC DRIVE

DRIVE 28 / 110 Arms

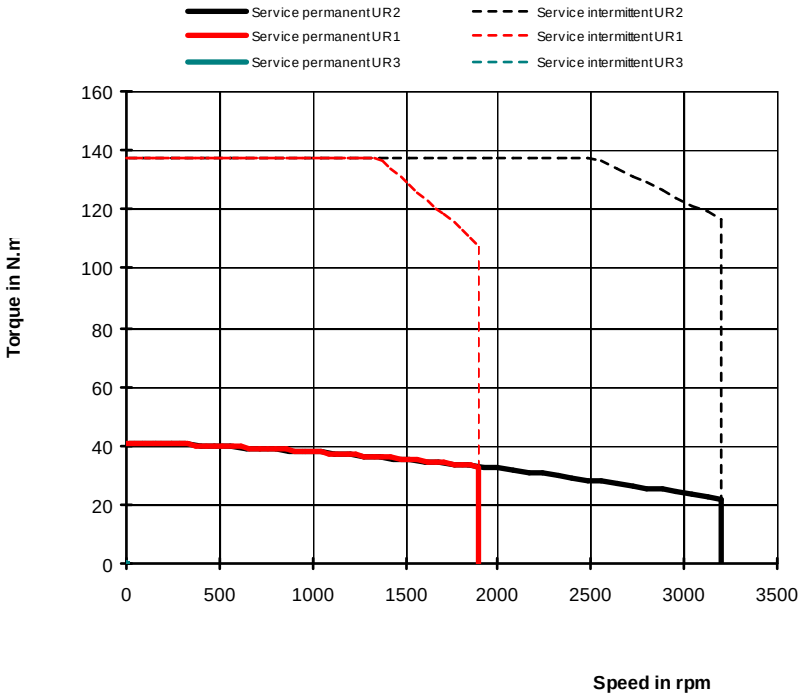
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V_{rms}		400	
Max **mechanical** speed	Nmax	t/min		8000	
Torque at low speed	M_o	Nm		41	
Permanent current at low speed	I_o	A_{rms}		27	
Peak torque	M_p	Nm		137,0	--
Current for the peak torque	I_p	A_{rms}		108	--
Back emf constant at 1000 rpm (25°C)*	Ke	V_{rms}		96,1	
Torque sensitivity	Kt	Nm/A_{rms}		1,52	
Winding resistance (25°C)*	Rb	W		0,238	
Winding inductance*	L	mH		3,04	
Rotor inertia	J	kgm^2x10^{-5}		920	
Thermal time constant	Tth	min		60	
Motor mass	M	kg		27	
Voltage of the mains	UR1 UR2 UR3	V_{rms}	230	400	-
Rated speed	Nn1 Nn2 Nn3	t/min	1900	3200	-
Rated torque	Mn1 Mn2 Mn3	Nm	32,81	21,89	-
Rated current	In1 In2 In3	A_{rms}	21,80	14,88	-
Rated power	Pn1 Pn2 Pn3	W	6530	7340	-

All data are given in typical values under standard conditions

** Phase to phase*

Voltages and currents are given in rms values



Characteristics are given for an optimal drive of the motor and an adaptative phase advance

BRUSHLESS MOTORS

NX860EAJ

ELECTRONIC DRIVE

DRIVE 20 / 75 Arms

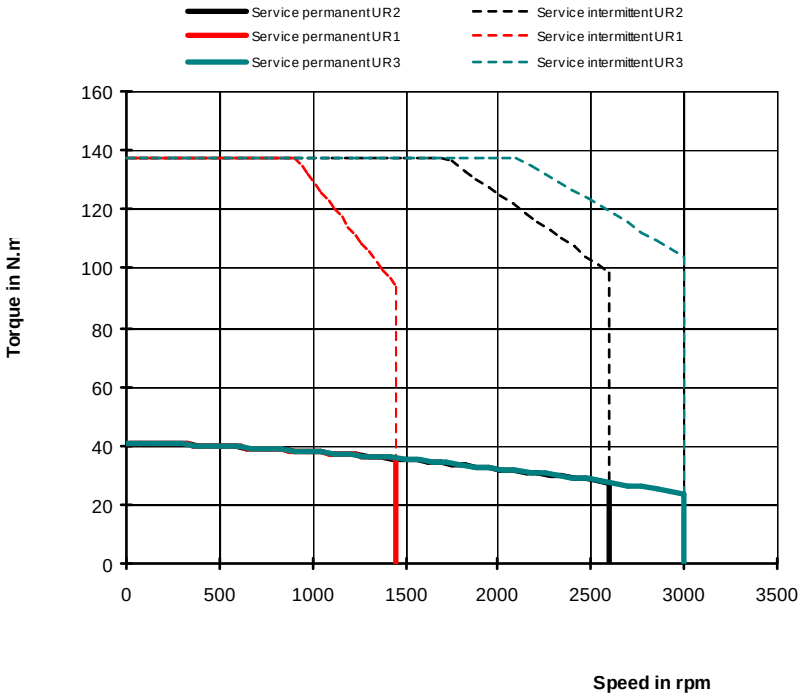
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V_{rms}		480	
Max **mechanical** speed	Nmax	t/min		8000	
Torque at low speed	M_o	Nm		41	
Permanent current at low speed	I_o	A_{rms}		18,5	
Peak torque	M_p	Nm		137,0	--
Current for the peak torque	I_p	A_{rms}		74	--
Back emf constant at 1000 rpm (25°C)*	Ke	V_{rms}		140	
Torque sensitivity	Kt	Nm/A_{rms}		2,21	
Winding resistance (25°C)*	Rb	W		0,499	
Winding inductance*	L	mH		6,43	
Rotor inertia	J	kgm^2x10^{-5}		920	
Thermal time constant	Tth	min		60	
Motor mass	M	kg		27	
Voltage of the mains	UR1 UR2 UR3	V_{rms}	230	400	480
Rated speed	Nn1 Nn2 Nn3	t/min	1450	2600	3000
Rated torque	Mn1 Mn2 Mn3	Nm	35,58	27,47	23,85
Rated current	In1 In2 In3	A_{rms}	16,20	12,66	11,09
Rated power	Pn1 Pn2 Pn3	W	5400	7480	7490

All data are given in typical values under standard conditions

** Phase to phase*

Voltages and currents are given in rms values



BRUSHLESS MOTORS

NX860VAJ

ELECTRONIC DRIVE

DRIVE 30 / 75 Arms

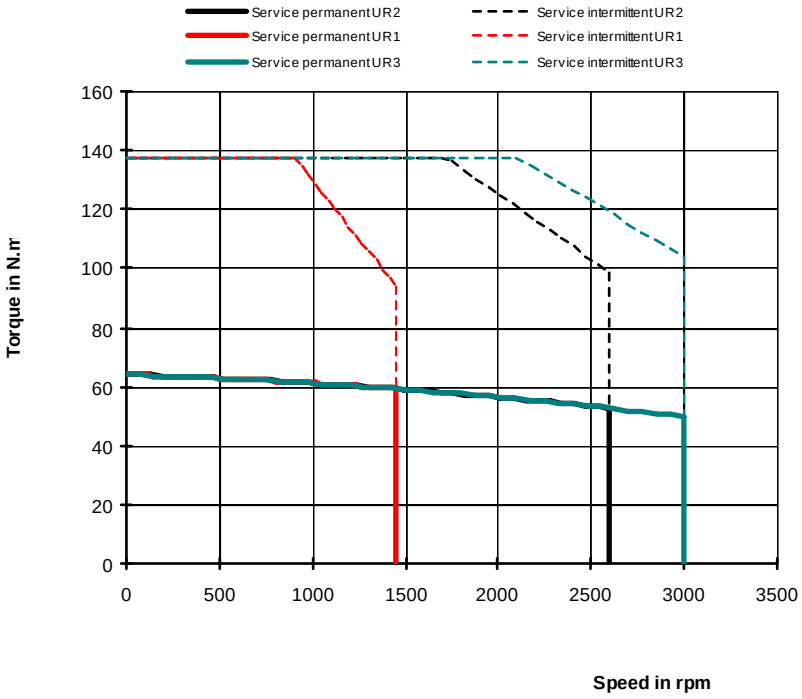
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V_{rms}		480	
Max **mechanical** speed	Nmax	t/min		8000	
Torque at low speed	M_o	Nm		64	
Permanent current at low speed	I_o	A_{rms}		29,3	
Peak torque	M_p	Nm		137,0	--
Current for the peak torque	I_p	A_{rms}		74	--
Back emf constant at 1000 rpm (25°C)*	Ke	V_{rms}		140	
Torque sensitivity	Kt	Nm/A_{rms}		2,18	
Winding resistance (25°C)*	Rb	W		0,499	
Winding inductance*	L	mH		6,43	
Rotor inertia	J	kgm^2x10^{-5}		920	
Thermal time constant	Tth	min		22	
Motor mass	M	kg		31	
Voltage of the mains	UR1 UR2 UR3	V_{rms}	230	400	480
Rated speed	Nn1 Nn2 Nn3	t/min	1450	2600	3000
Rated torque	Mn1 Mn2 Mn3	Nm	59,23	52,57	49,66
Rated current	In1 In2 In3	A_{rms}	27,13	24,06	22,73
Rated power	Pn1 Pn2 Pn3	W	8990	14310	15600

All data are given in typical values under standard conditions

** Phase to phase*

Voltages and currents are given in rms values



Characteristics are given for an optimal drive of the motor and an adaptative phase advance

BRUSHLESS MOTORS

NX860VAF

ELECTRONIC DRIVE

DRIVE 45 / 110 Arms

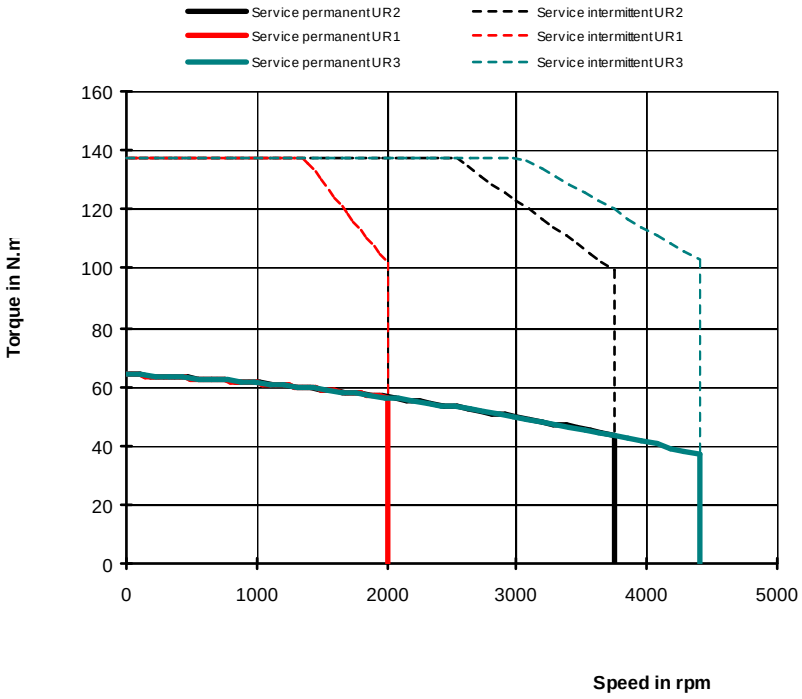
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V_{rms}		480	
Max **mechanical** speed	Nmax	t/min		8000	
Torque at low speed	M_o	Nm		64	
Permanent current at low speed	I_o	A_{rms}		42,7	
Peak torque	M_p	Nm		137,0	--
Current for the peak torque	I_p	A_{rms}		108	--
Back emf constant at 1000 rpm (25°C)*	Ke	V_{rms}		96,1	
Torque sensitivity	Kt	Nm/A_{rms}		1,5	
Winding resistance (25°C)*	Rb	W		0,238	
Winding inductance*	L	mH		3,04	
Rotor inertia	J	kgm^2x10^{-5}		920	
Thermal time constant	Tth	min		22	
Motor mass	M	kg		31	
Voltage of the mains	UR1 UR2 UR3	V_{rms}	230	400	480
Rated speed	Nn1 Nn2 Nn3	t/min	2000	3750	4400
Rated torque	Mn1 Mn2 Mn3	Nm	56,36	43,38	37,05
Rated current	In1 In2 In3	A_{rms}	37,53	28,93	24,83
Rated power	Pn1 Pn2 Pn3	W	11800	17030	17070

All data are given in typical values under standard conditions

** Phase to phase*

Voltages and currents are given in rms values



Characteristics are given for an optimal drive of the motor and an adaptative phase advance