

BRUSHLESS MOTORS			
NX110EAP			
ELECTRONIC DRIVE			
DRIVE 1 / 4 Arms			

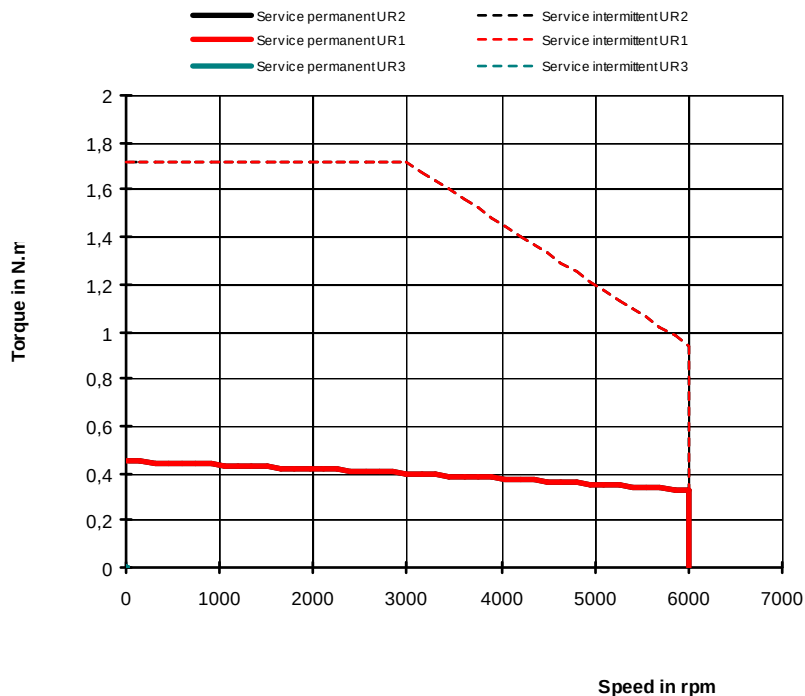
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V _{rms}	230		
Max mechanical speed	Nmax	t/min	20000		
Torque at low speed	M _b	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 ² ×10 ⁻⁵	1,3		
Thermal time constant	T _{th}	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



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

FICHE-009

Création: 31 mai 2002	Edition:	24/juin/2010	NX110EAP	.a
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BRUSHLESS MOTORS			
NX205EAS			
ELECTRONIC DRIVE			
DRIVE 1.5 / 7.5 Arms			

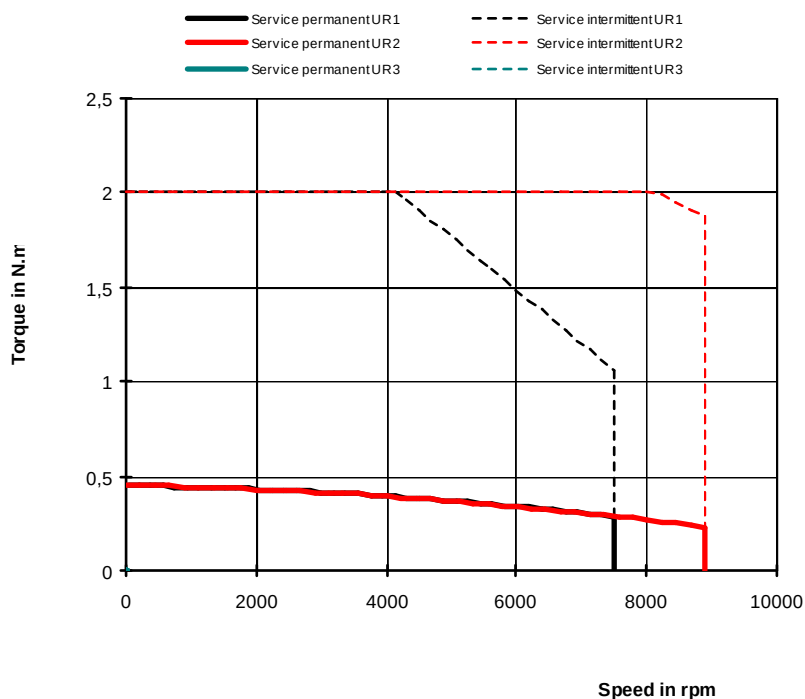
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V _{rms}	400		
Max mechanical speed	Nmax	t/min	20000		
Torque at low speed	M _b	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 ² ×10 ⁻⁵	2,1		
Thermal time constant	T _{th}	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

FICHE-009

Création: 22 sept 2004	Edition:	23/juin/2010	NX205EAS
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BRUSHLESS MOTORS			
NX205EAV			
ELECTRONIC DRIVE			
DRIVE 1.5 / 6 Arms			

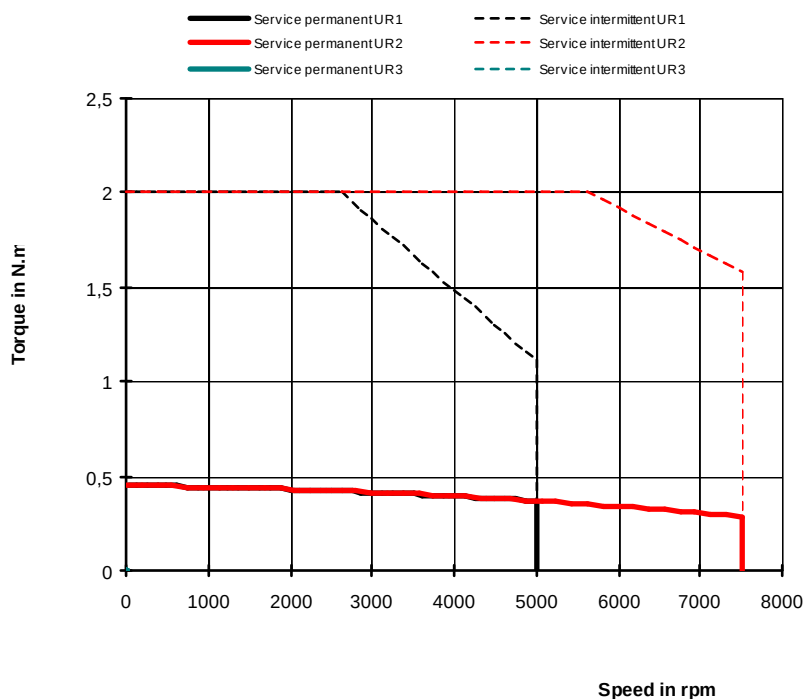
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V _{rms}	400	
Max mechanical speed	Nmax	t/min	20000	
Torque at low speed	M _b	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 ² ×10 ⁻⁵	2,1	
Thermal time constant	T _{th}	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

FICHE-009

Création: 22 sept 2004	Edition: 23/juin/2010	NX205EAV
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BRUSHLESS MOTORS			
NX210EAG			
ELECTRONIC DRIVE			
DRIVE 3 / 11 Arms			

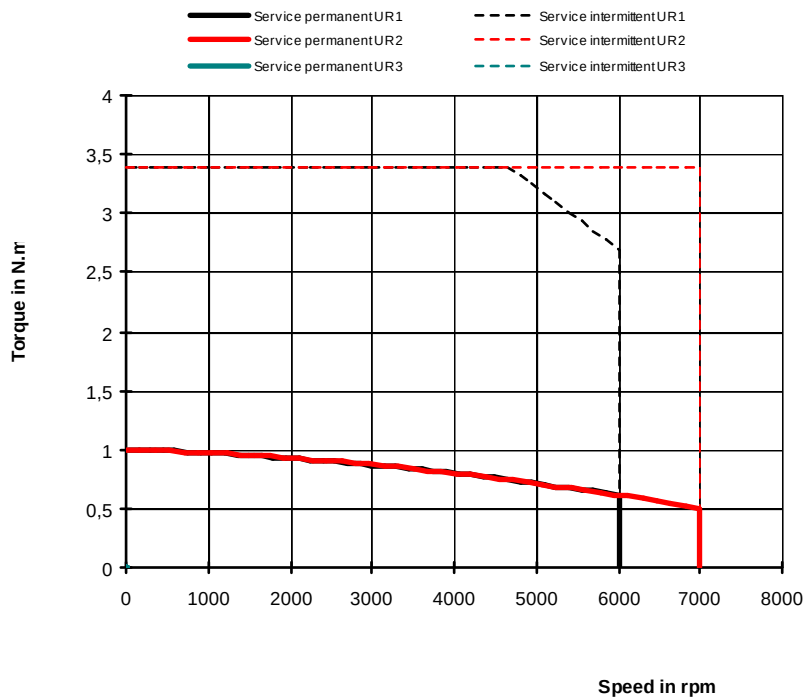
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V _{rms}	400		
Max mechanical speed	Nmax	t/min	20000		
Torque at low speed	M _b	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	kgm²x10 ⁻⁵	3,8		
Thermal time constant	T _{th}	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

FICHE-009

Création: 26 avr 2002	Edition:	23/juin/2010	NX210EAG	.a
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BRUSHLESS MOTORS			
NX210EAP			
ELECTRONIC DRIVE			
DRIVE 2 / 8 Arms			

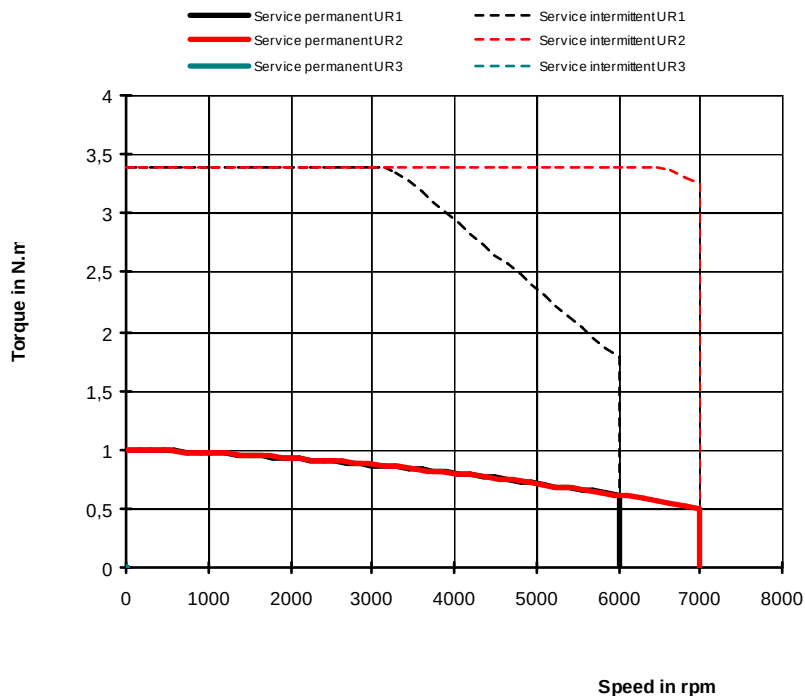
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V _{rms}	400	
Max mechanical speed	Nmax	t/min	20000	
Torque at low speed	M _b	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 ² ×10 ⁻⁵	3,8	
Thermal time constant	T _{th}	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

FICHE-009

Création: 31 mai 2002	Edition:	23/juin/2010	NX210EAP
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BRUSHLESS MOTORS			
NX210EAT			
ELECTRONIC DRIVE			
DRIVE 1.5 / 6 Arms			

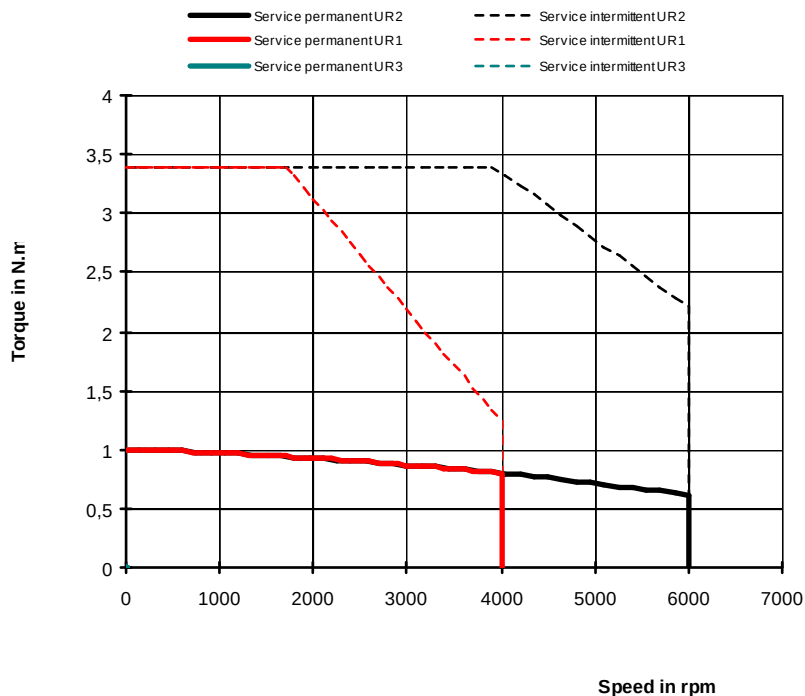
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V _{rms}	400	
Max mechanical speed	Nmax	t/min	20000	
Torque at low speed	M _b	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 ² ×10 ⁻⁵	3,8	
Thermal time constant	T _{th}	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

FICHE-009

Création: 31 mai 2002	Edition:	23/juin/2010	NX210EAT
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BRUSHLESS MOTORS					
NX310EAI					
ELECTRONIC DRIVE					
DRIVE 3.5 / 14 Arms					

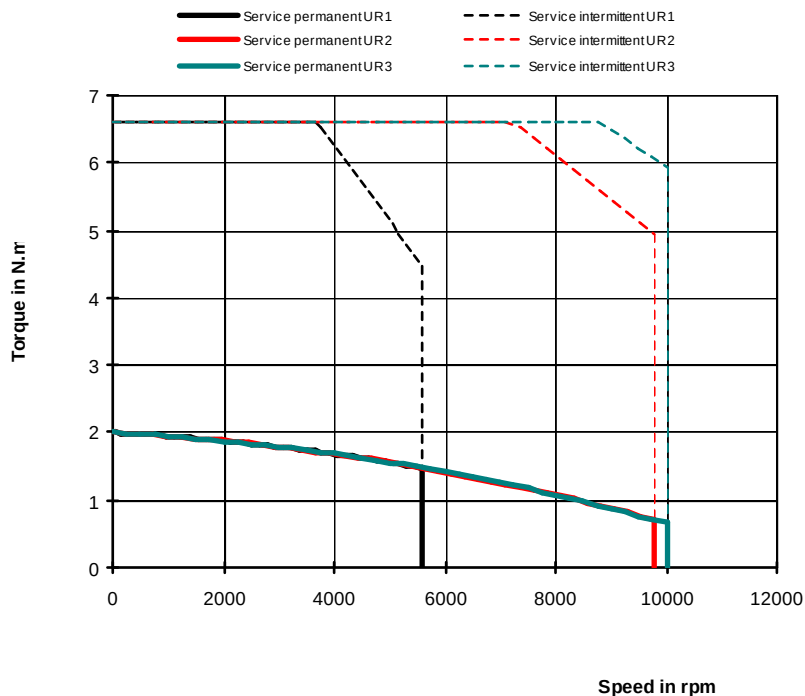
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V _{rms}	480		
Max mechanical speed	Nmax	t/min	15000		
Torque at low speed	M _b	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	kgm²x10 ⁻⁵	7,9		
Thermal time constant	T _{th}	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

FICHE-009

Création: 04 janv 2000	Edition:	23/juin/2010	NX310EAI
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BRUSHLESS MOTORS					
NX310EAK					
ELECTRONIC DRIVE					
DRIVE 2.5 / 10 Arms					

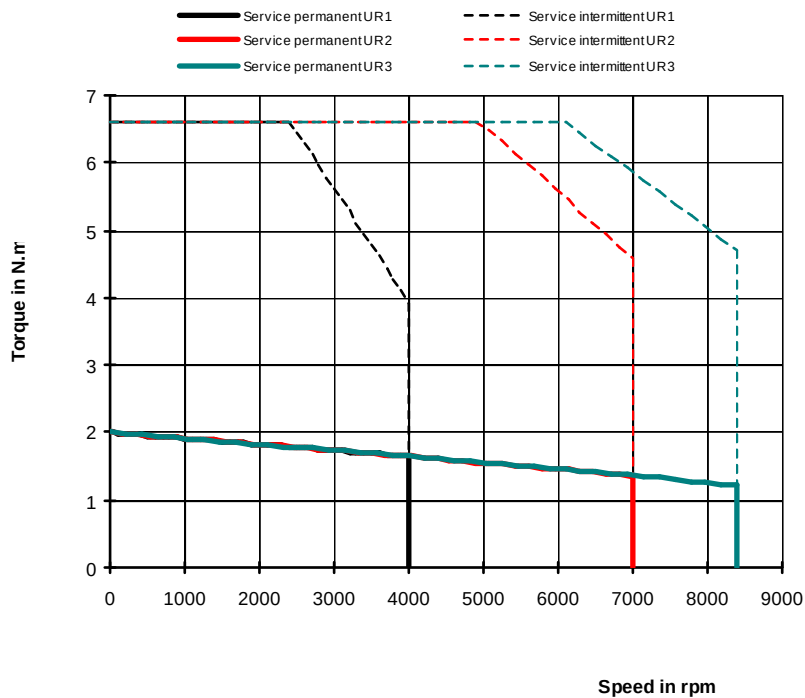
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V _{rms}	480		
Max mechanical speed	Nmax	t/min	15000		
Torque at low speed	M _b	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	kgm²x10 ⁻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

FICHE-009

Création: 11 mars 1999	Edition:	23/juin/2010	NX310EAK	.a
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BRUSHLESS MOTORS					
NX310EAP					
ELECTRONIC DRIVE					
DRIVE 1.5 / 6 Arms					

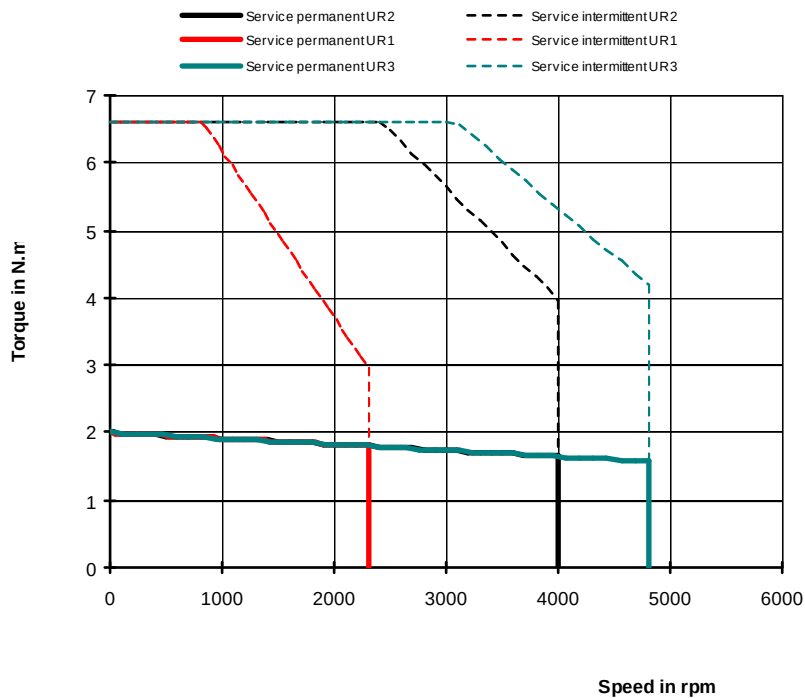
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V _{rms}	480		
Max mechanical speed	Nmax	t/min	15000		
Torque at low speed	M _b	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	kgm²x10 ⁻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



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

FICHE-009

Création: 11 mars 1999	Edition: 23/juin/2010	NX310EAP	.a
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BRUSHLESS MOTORS			
NX310EAX			
ELECTRONIC DRIVE			
DRIVE 4 / 16 Arms			

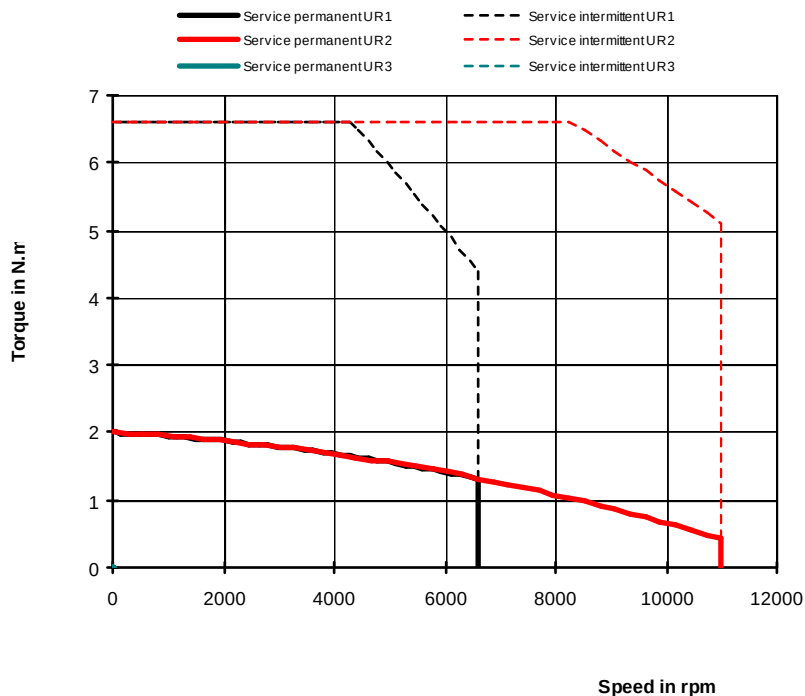
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V _{rms}	400	
Max mechanical speed	Nmax	t/min	15000	
Torque at low speed	M ₀	Nm	2	
Permanent current at low speed	I ₀	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 ² ×10 ⁻⁵	7,9	
Thermal time constant	T _{th}	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

FICHE-009

Création: 25 juin 2001	Edition:	23/juin/2010	NX310EAX
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BRUSHLESS MOTORS					
NX420EAJ					
ELECTRONIC DRIVE					
DRIVE 5 / 20 Arms					

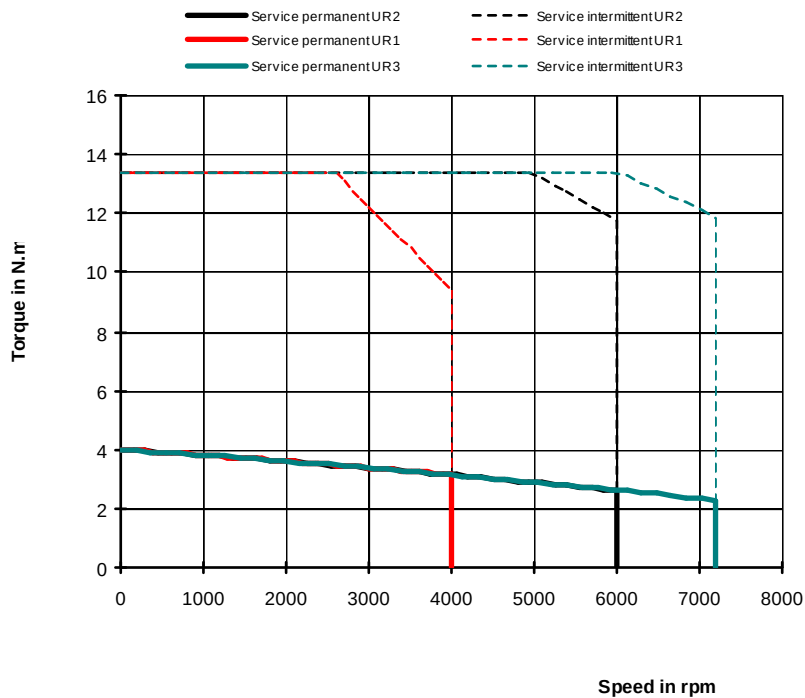
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V _{rms}	480		
Max mechanical speed	Nmax	t/min	12000		
Torque at low speed	M _b	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	kgm²x10 ⁻⁵	29		
Thermal time constant	T _{th}	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

FICHE-009

Création: 28 août 2000	Edition:	23/juin/2010	NX420EAJ	.b
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BRUSHLESS MOTORS		
NX420EAP		
ELECTRONIC DRIVE		
DRIVE 3 / 11 Arms		
		

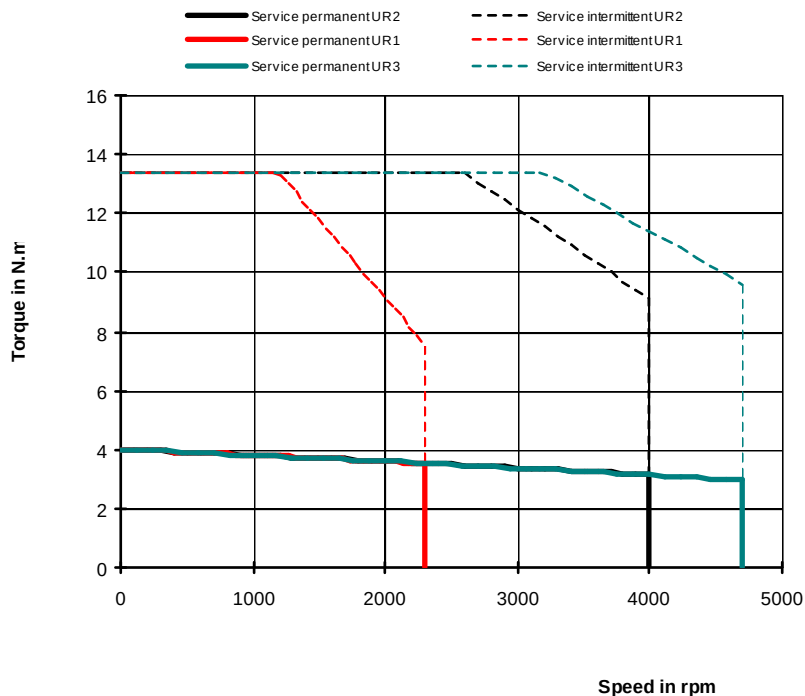
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V _{rms}	480		
Max mechanical speed	Nmax	t/min	12000		
Torque at low speed	M _b	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	kgm²x10 ⁻⁵	29		
Thermal time constant	T _{th}	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

FICHE-009

Création: 30 juil 1999	Edition:	23/juin/2010	NX420EAP	.a
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BRUSHLESS MOTORS					
NX420EAV					
ELECTRONIC DRIVE					
DRIVE 1.5 / 6 Arms					

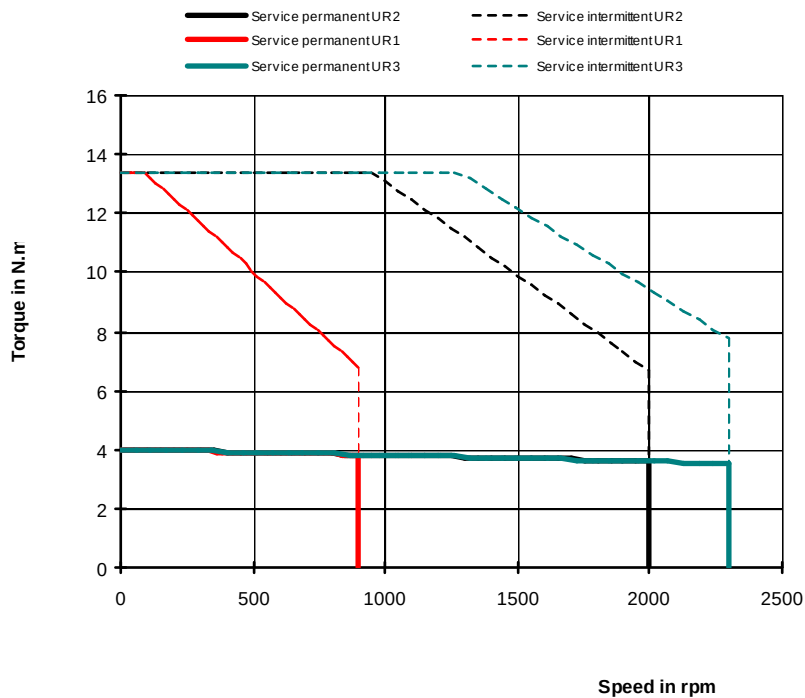
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V _{rms}	480		
Max mechanical speed	Nmax	t/min	12000		
Torque at low speed	M _b	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	kgm²x10 ⁻⁵	29		
Thermal time constant	T _{th}	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



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

FICHE-009

Création: 11 mai 2000	Edition:	23/juin/2010	NX420EAV	.a
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BRUSHLESS MOTORS			
NX420EAX			
ELECTRONIC DRIVE			
DRIVE 6 / 22 Arms			

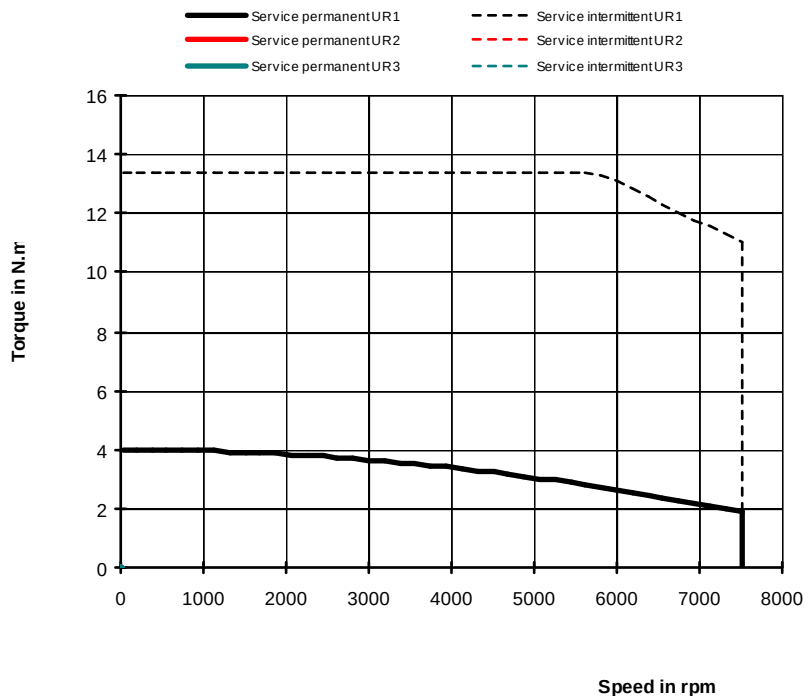
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V _{rms}	400	
Max mechanical speed	Nmax	t/min	12000	
Torque at low speed	M _b	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 ² ×10 ⁻⁵	29	
Thermal time constant	T _{th}	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

FICHE-009

Création: 06 mars 2006	Edition: 23/juin/2010	NX420EAX	.a
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BRUSHLESS MOTORS

NX430EAF

ELECTRONIC DRIVE

DRIVE 7 / 27 Arms



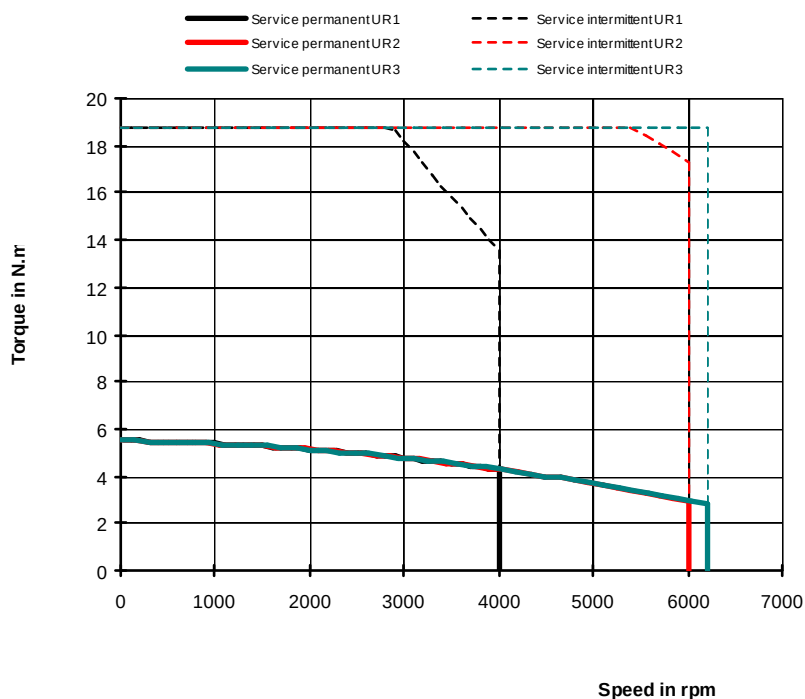
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V _{rms}	480		
Max mechanical speed	Nmax	t/min	12000		
Torque at low speed	M _b	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 ² ×10 ⁻⁵	42,6		
Thermal time constant	T _{th}	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

FICHE-009

Création: 30 juil 1999

Edition:

23/juin/2010

NX430EAF

.a

BRUSHLESS MOTORS

NX430EAH

ELECTRONIC DRIVE

DRIVE 6 / 23 Arms



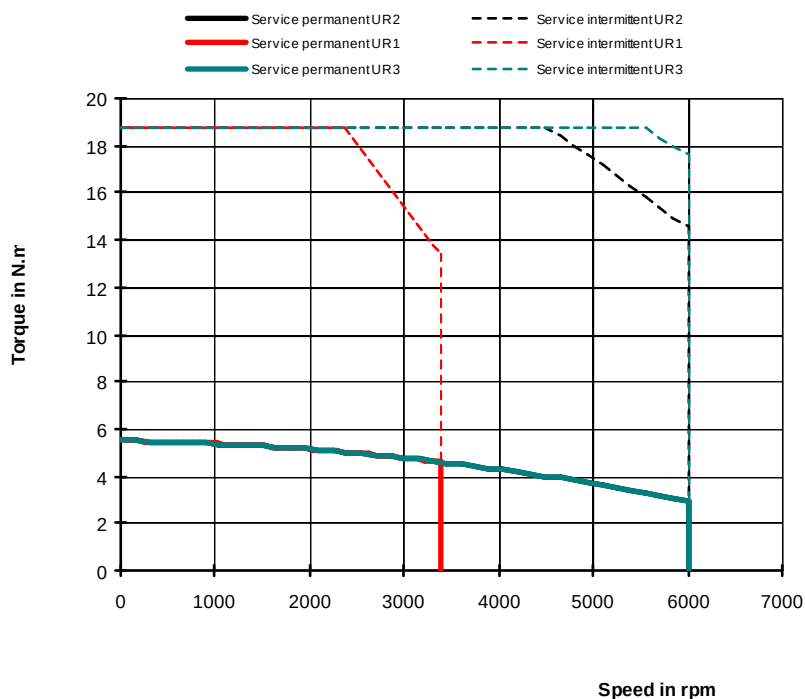
Characteristics are given for an optimal drive of the motor and an adaptive phase advance

Max voltage of the mains	Ur max	V _{rms}	480		
Max mechanical speed	Nmax	t/min	12000		
Torque at low speed	M _b	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 ² ×10 ⁻⁵	42,6		
Thermal time constant	T _{th}	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



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

FICHE-009

Création: 07 avr 2000

Edition:

23/juin/2010

NX430EAH

.a

BRUSHLESS MOTORS					
NX430EAJ					
ELECTRONIC DRIVE					
DRIVE 6 / 22 Arms					

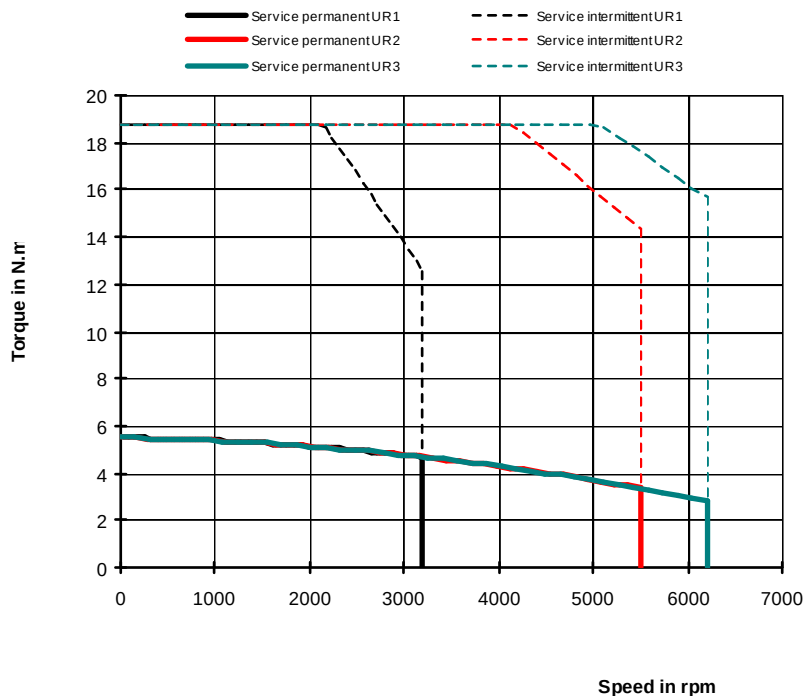
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V _{rms}	480		
Max mechanical speed	Nmax	t/min	12000		
Torque at low speed	M _b	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	kgm²×10 ⁻⁵	42,6		
Thermal time constant	T _{th}	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

FICHE-009

Création: 11 mai 2000	Edition:	23/juin/2010	NX430EAJ	.a
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BRUSHLESS MOTORS					
NX430EAL					
ELECTRONIC DRIVE					
DRIVE 4 / 16 Arms					

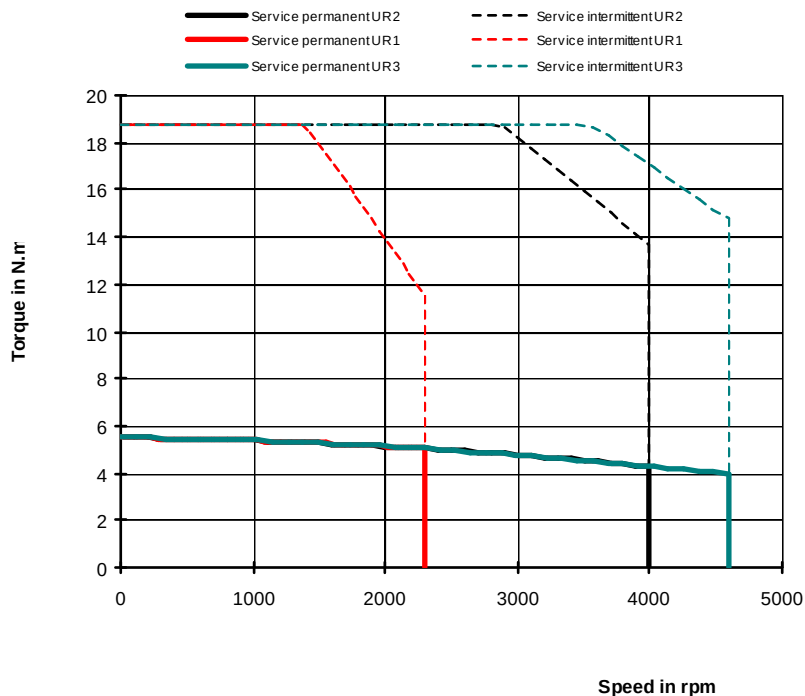
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V _{rms}	480		
Max mechanical speed	Nmax	t/min	12000		
Torque at low speed	M _b	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	kgm²x10 ⁻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

FICHE-009

Création: 30 juil 1999	Edition:	23/juin/2010	NX430EAL	.a
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BRUSHLESS MOTORS					
NX430EAP					
ELECTRONIC DRIVE					
DRIVE 3 / 12 Arms					

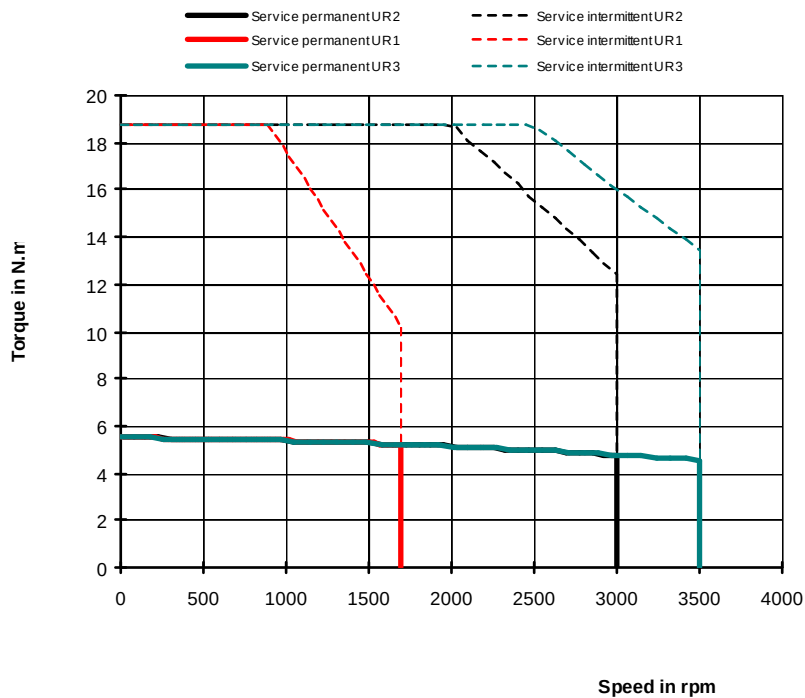
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V _{rms}	480		
Max mechanical speed	Nmax	t/min	12000		
Torque at low speed	M _b	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	kgm²×10 ⁻⁵	42,6		
Thermal time constant	T _{th}	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

FICHE-009

Création: 11 mai 2000	Edition:	23/juin/2010	NX430EAP	.a
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BRUSHLESS MOTORS					
NX430EAV					
ELECTRONIC DRIVE					
DRIVE 1.5 / 6 Arms					

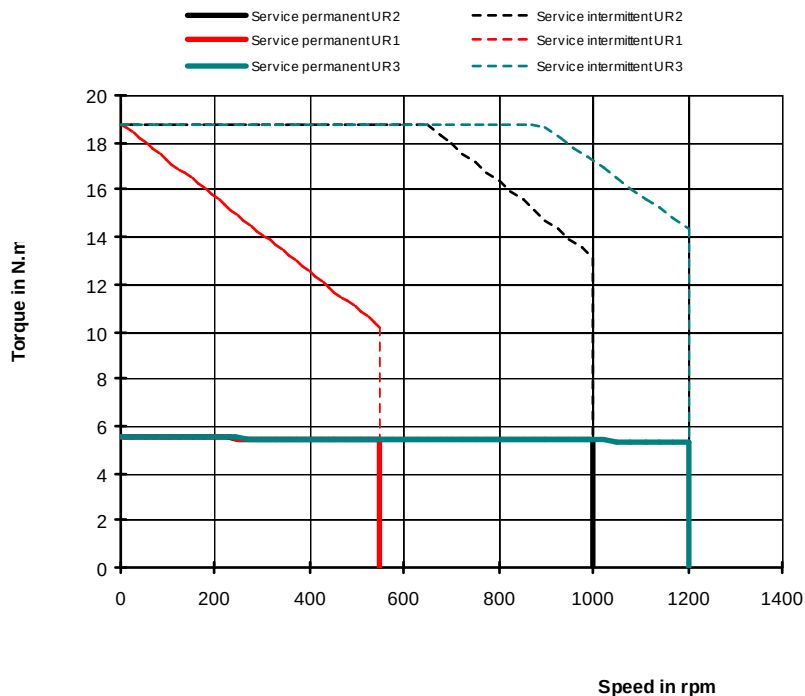
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V _{rms}	480		
Max mechanical speed	Nmax	t/min	12000		
Torque at low speed	M _b	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	kgm²x10 ⁻⁵	42,6		
Thermal time constant	T _{th}	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



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

FICHE-009

Création: 16 nov 2000	Edition:	23/juin/2010	NX430EAV	.a
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BRUSHLESS MOTORS			
NX620EAD			
ELECTRONIC DRIVE			
DRIVE 13 / 50 Arms			

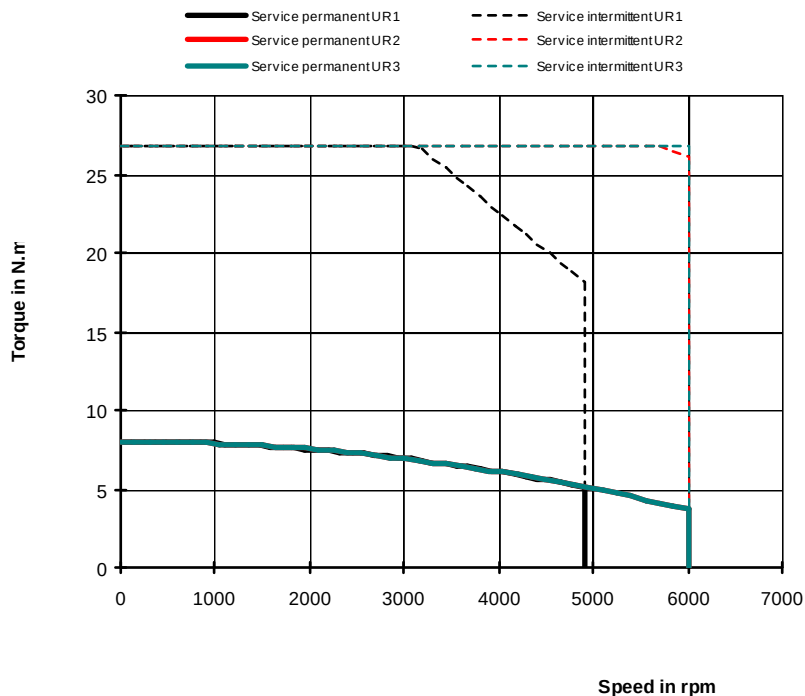
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V _{rms}	480	
Max mechanical speed	Nmax	t/min	10000	
Torque at low speed	M _b	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	kgm²x10 ⁻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

FICHE-009

Création: 04 avr 2000	Edition:	23/juin/2010	NX620EAD	.a
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BRUSHLESS MOTORS					
NX620EAJ					
ELECTRONIC DRIVE					
DRIVE 10 / 40 Arms					

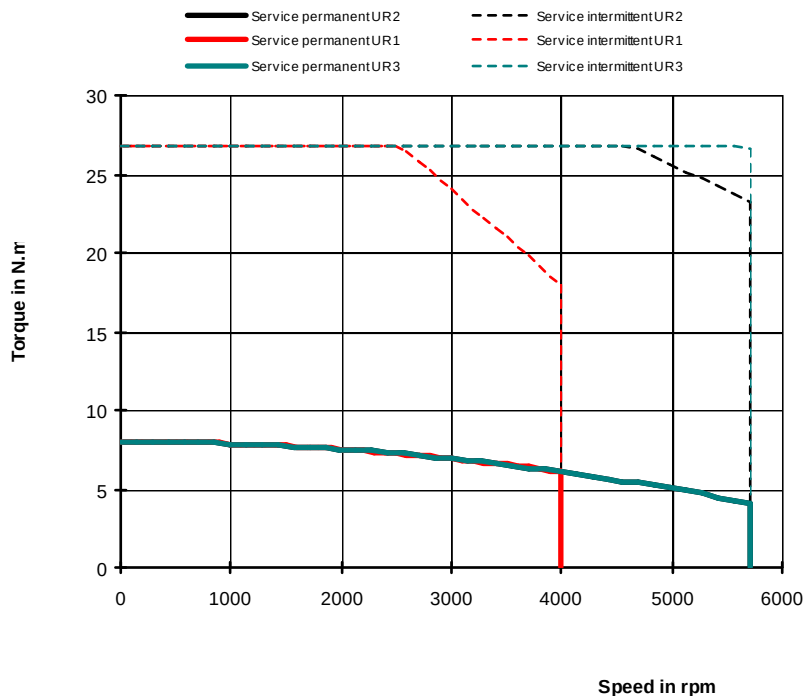
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V _{rms}	480		
Max mechanical speed	Nmax	t/min	10000		
Torque at low speed	M _b	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	kgm²x10 ⁻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

FICHE-009

Création: 17 janv 2001	Edition:	23/juin/2010	NX620EAJ
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BRUSHLESS MOTORS			
NX620EAR			
ELECTRONIC DRIVE		 	
DRIVE 6 / 22 Arms			

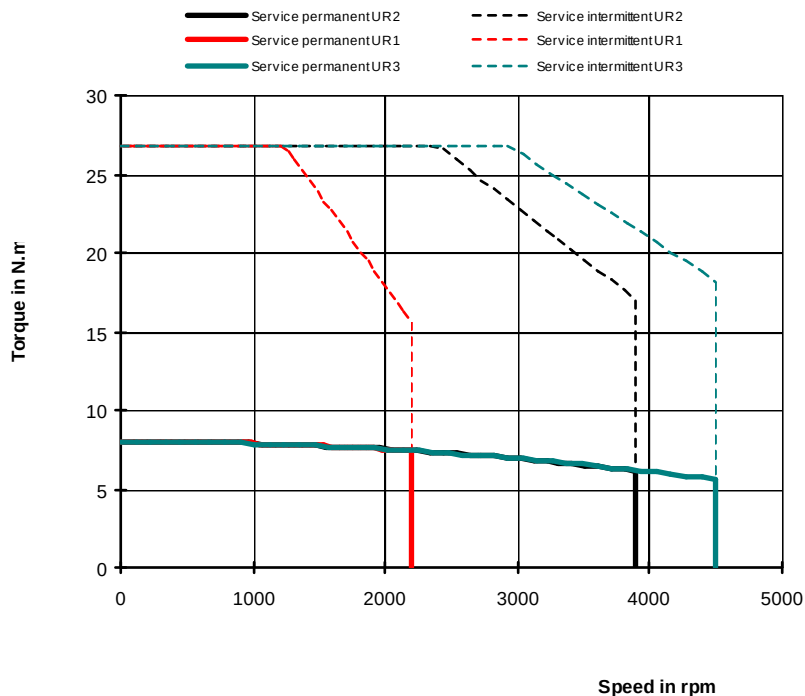
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V _{rms}	480	
Max mechanical speed	Nmax	t/min	10000	
Torque at low speed	M _b	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	kgm²x10 ⁻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

FICHE-009

Création: 04 avr 2000	Edition:	23/juin/2010	NX620EAR	.a
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BRUSHLESS MOTORS					
NX620EAV					
ELECTRONIC DRIVE					
DRIVE 3 / 12 Arms					

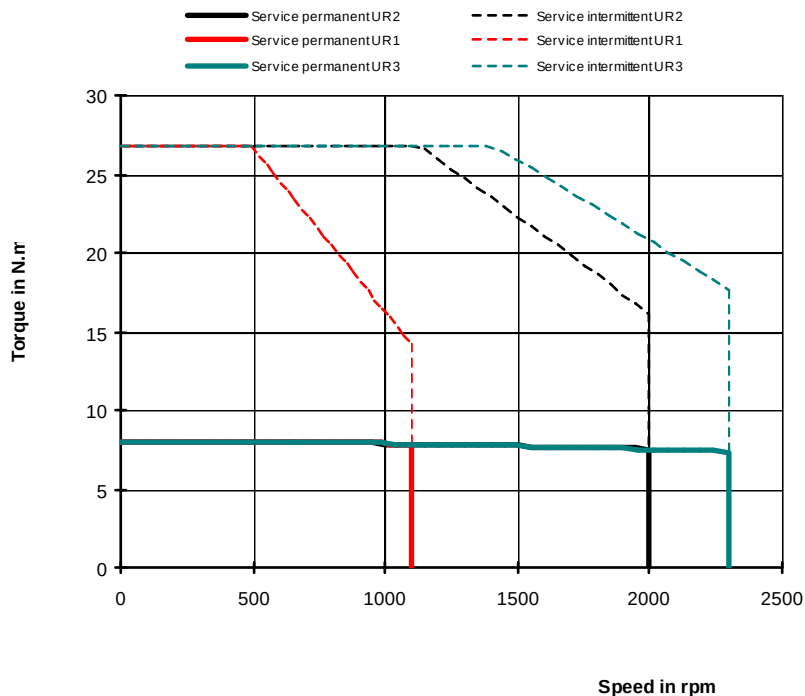
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V _{rms}	480		
Max mechanical speed	Nmax	t/min	10000		
Torque at low speed	M _b	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	kgm²x10 ⁻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

FICHE-009

Création: 12 mai 2000	Edition:	23/juin/2010	NX620EAV	.a
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BRUSHLESS MOTORS

NX630EAG

ELECTRONIC DRIVE

DRIVE 14 / 56 Arms



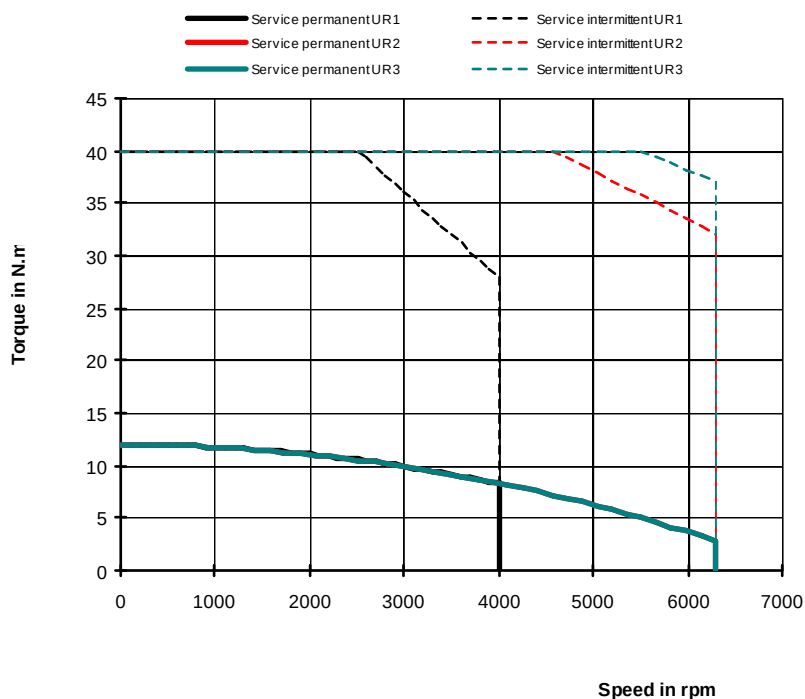
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V _{rms}	480		
Max mechanical speed	Nmax	t/min	10000		
Torque at low speed	M _b	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 ² ×10 ⁻⁵	147		
Thermal time constant	T _{th}	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

FICHE-009

Création: 18 avr 2000

Edition:

23/juin/2010

NX630EAG

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BRUSHLESS MOTORS					
NX630EAK					
ELECTRONIC DRIVE					
DRIVE 10 / 40 Arms					

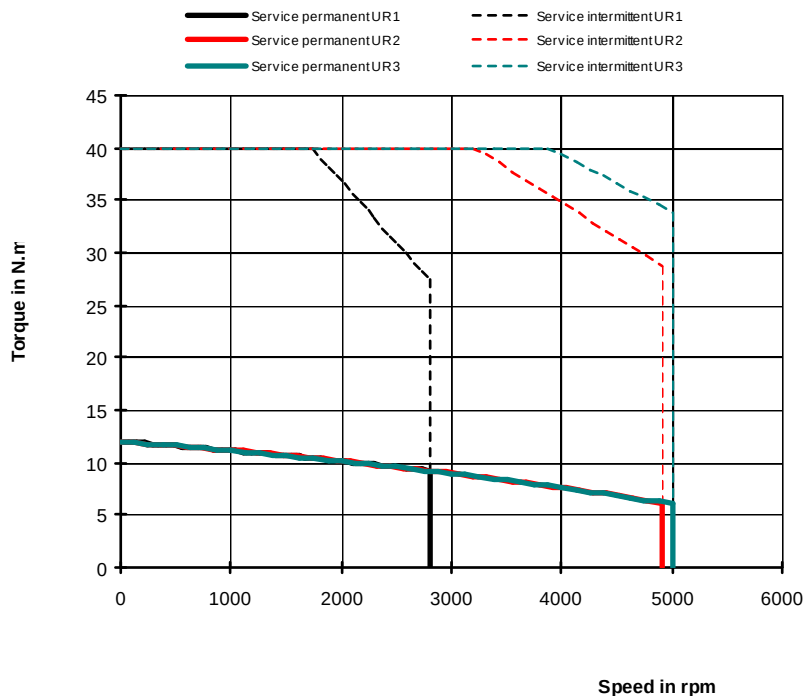
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V _{rms}	480		
Max mechanical speed	Nmax	t/min	10000		
Torque at low speed	M _b	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	kgm²x10 ⁻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

FICHE-009

Création: 12 mai 2000	Edition:	23/juin/2010	NX630EAK	.a
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BRUSHLESS MOTORS					
NX630EAN					
ELECTRONIC DRIVE					
DRIVE 8 / 32 Arms					

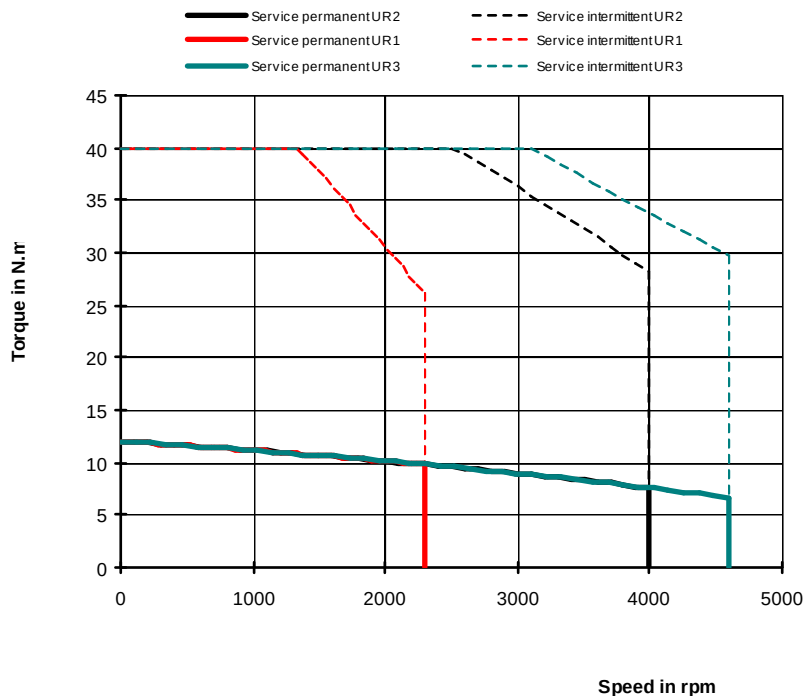
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V _{rms}	480		
Max mechanical speed	Nmax	t/min	10000		
Torque at low speed	M _b	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	kgm²x10 ⁻⁵	147		
Thermal time constant	T _{th}	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

FICHE-009

Création: 18 avr 2000	Edition:	23/juin/2010	NX630EAN	.b
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BRUSHLESS MOTORS

NX630EAR

ELECTRONIC DRIVE

DRIVE 6 / 22 Arms



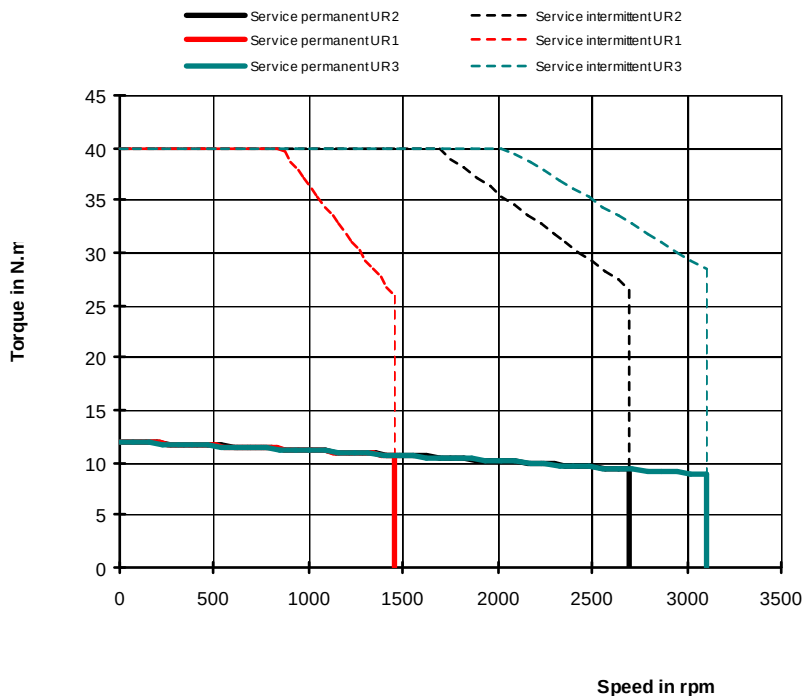
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V _{rms}	480		
Max mechanical speed	Nmax	t/min	10000		
Torque at low speed	M _b	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 ² ×10 ⁻⁵	147		
Thermal time constant	T _{th}	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



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

FICHE-009

Création: 12 mai 2000

Edition:

23/juin/2010

NX630EAR

.a

BRUSHLESS MOTORS

NX630EAV

ELECTRONIC DRIVE

DRIVE 3 / 11 Arms



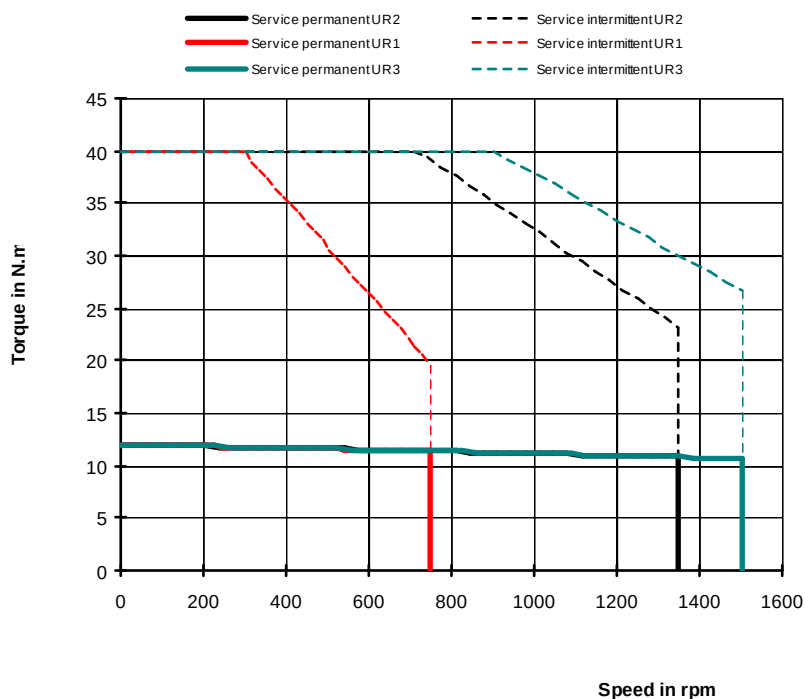
Characteristics are given for an optimal drive of the motor and an adaptive phase advance

Max voltage of the mains	Ur max	V _{rms}	480		
Max mechanical speed	Nmax	t/min	10000		
Torque at low speed	M _b	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 ² ×10 ⁻⁵	147		
Thermal time constant	T _{th}	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 adaptive phase advance

FICHE-009

Création: 16 nov 2000

Edition:

23/juin/2010

NX630EAV

BRUSHLESS MOTORS					
NX820EAL					
ELECTRONIC DRIVE					
DRIVE 18 / 70 Arms					

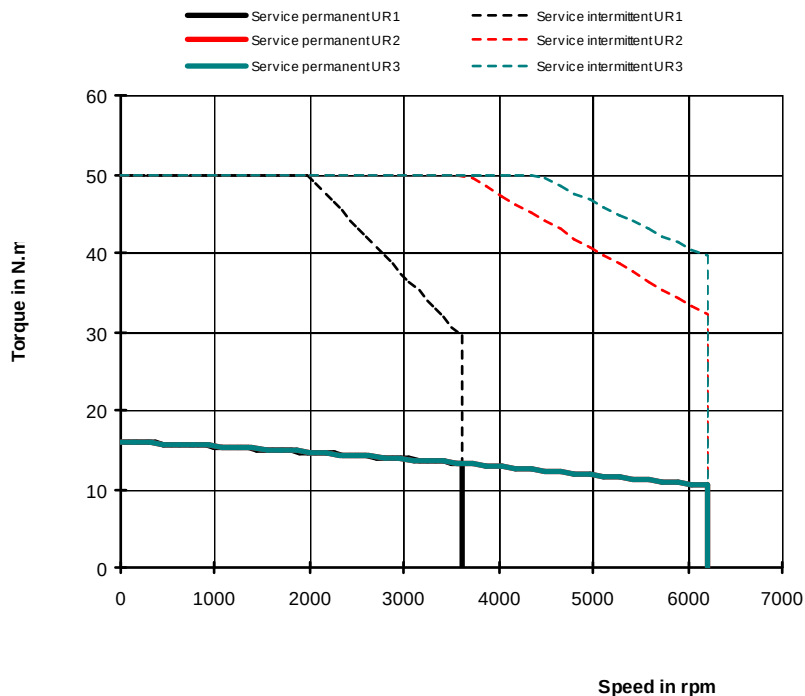
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V _{rms}	480	
Max mechanical speed	Nmax	t/min	8000	
Torque at low speed	M ₀	Nm	16	
Permanent current at low speed	I ₀	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	kgm²x10 ⁻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

FICHE-009

Création: 26 mars 2003	Edition:	23/juin/2010	NX820EAL	.a
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BRUSHLESS MOTORS					
NX820EAR					
ELECTRONIC DRIVE					
DRIVE 12 / 44 Arms					

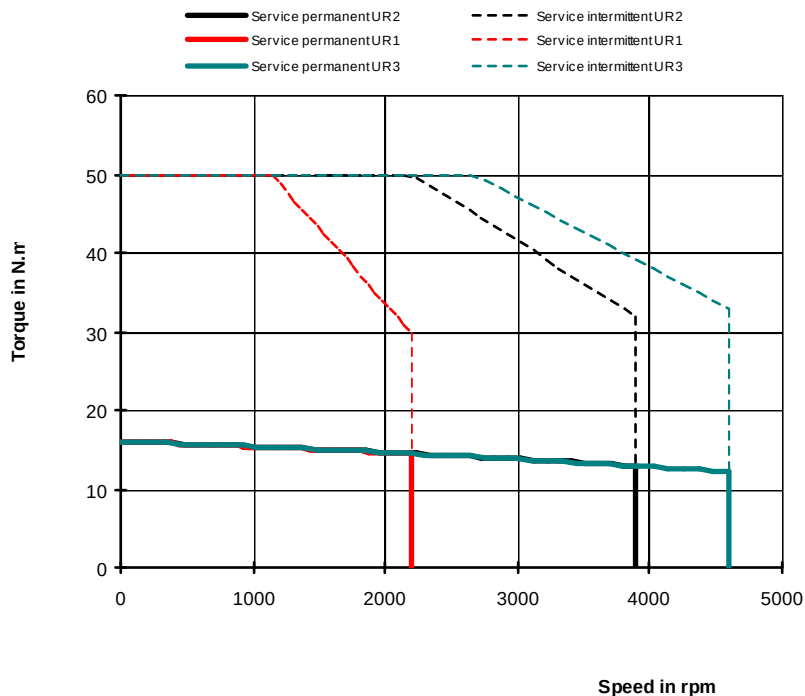
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V _{rms}	480		
Max mechanical speed	Nmax	t/min	8000		
Torque at low speed	M _b	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	kgm²×10 ⁻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

FICHE-009

Création: 05 mars 2001	Edition: 23/juin/2010	NX820EAR	.b
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BRUSHLESS MOTORS			
NX820EAX			
ELECTRONIC DRIVE		 	
DRIVE 6 / 21 Arms			

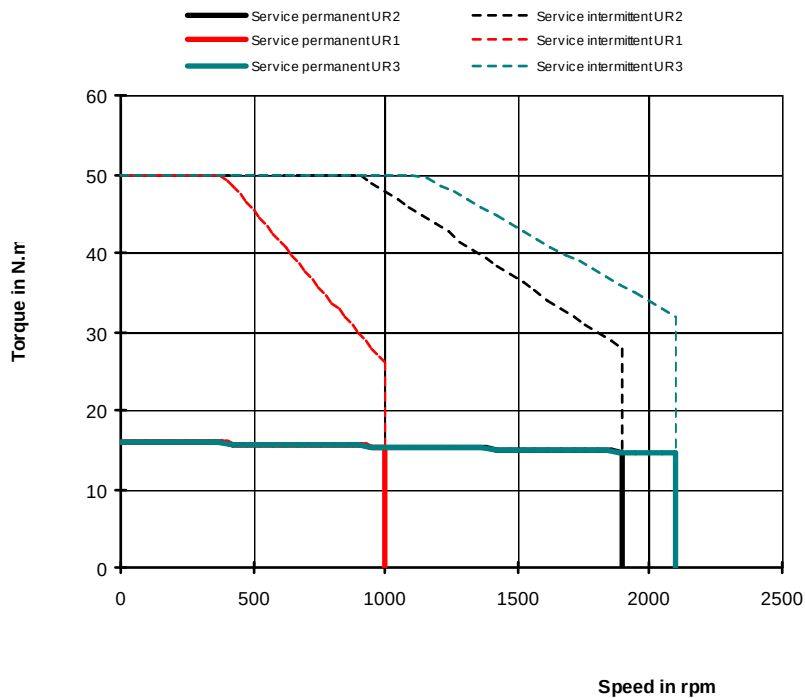
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V _{rms}	480		
Max mechanical speed	Nmax	t/min	8000		
Torque at low speed	M _b	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	kgm²x10 ⁻⁵	320		
Thermal time constant	T _{th}	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

FICHE-009

Création: 08 août 2001	Edition: 23/juin/2010	NX820EAX	.a
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BRUSHLESS MOTORS					
NX840EAJ					
ELECTRONIC DRIVE					
DRIVE 20 / 75 Arms					

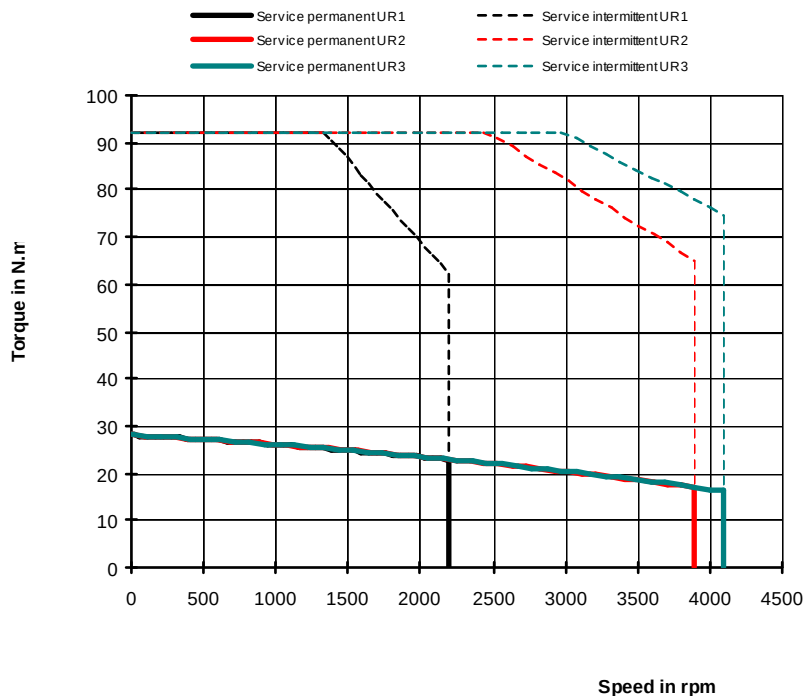
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V _{rms}	480	
Max mechanical speed	Nmax	t/min	8000	
Torque at low speed	M _b	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	kgm²x10 ⁻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

FICHE-009

Création: 26 mars 2003	Edition:	23/juin/2010	NX840EAJ	.a
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BRUSHLESS MOTORS					
NX840EAK					
ELECTRONIC DRIVE					
DRIVE 17 / 67 Arms					

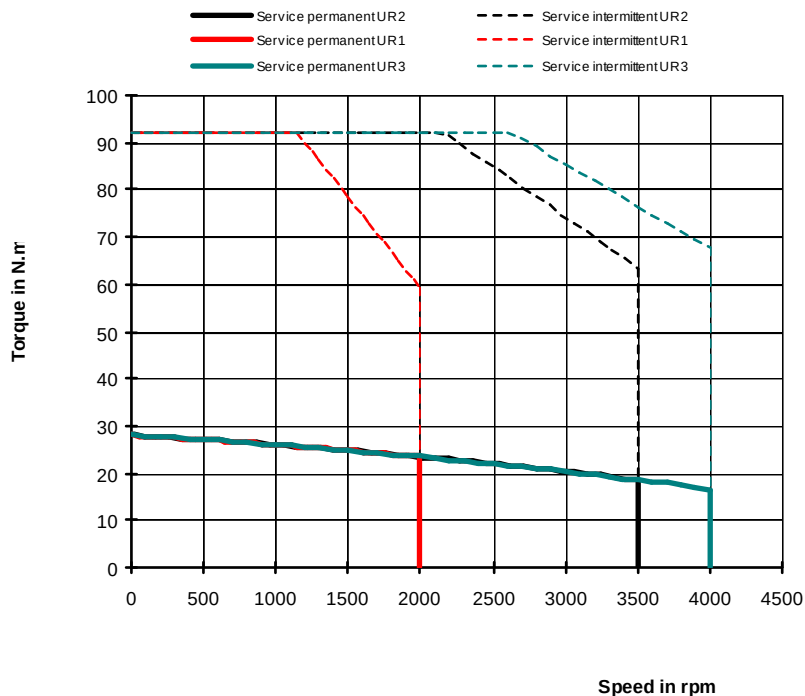
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V _{rms}	480		
Max mechanical speed	Nmax	t/min	8000		
Torque at low speed	M _b	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	kgm²x10 ⁻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



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

FICHE-009

Création: 05 mars 2001	Edition:	23/juin/2010	NX840EAK	.d
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BRUSHLESS MOTORS					
NX840EAL					
ELECTRONIC DRIVE					
DRIVE 16 / 60 Arms					

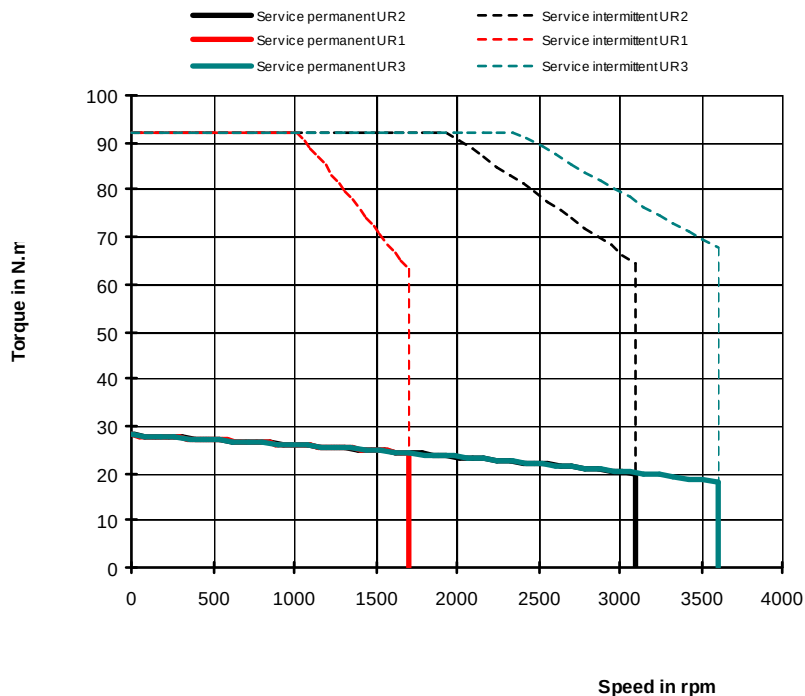
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V _{rms}	480		
Max mechanical speed	Nmax	t/min	8000		
Torque at low speed	M _b	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	kgm²x10 ⁻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



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

FICHE-009

Création: 04 janv 2008	Edition:	23/juin/2010	NX840EAL	-
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BRUSHLESS MOTORS					
NX840EAQ					
ELECTRONIC DRIVE					
DRIVE 11 / 40 Arms					

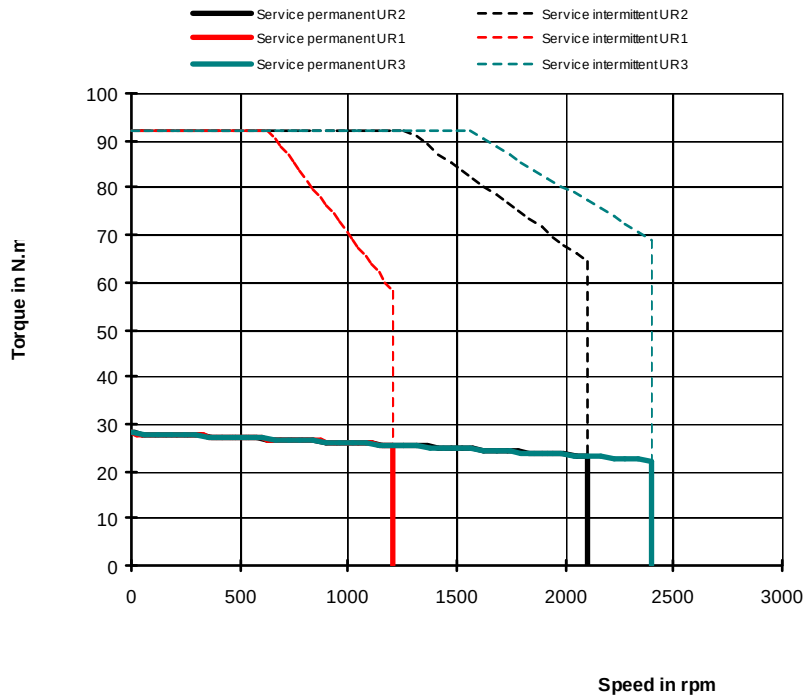
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V _{rms}	480		
Max mechanical speed	Nmax	t/min	8000		
Torque at low speed	M _b	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	kgm²x10 ⁻⁵	620		
Thermal time constant	T _{th}	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



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

FICHE-009

Création: 08 août 2001	Edition: 23/juin/2010	NX840EAQ	.c
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BRUSHLESS MOTORS			
NX860EAD			
ELECTRONIC DRIVE			
DRIVE 35 / 135 Arms			

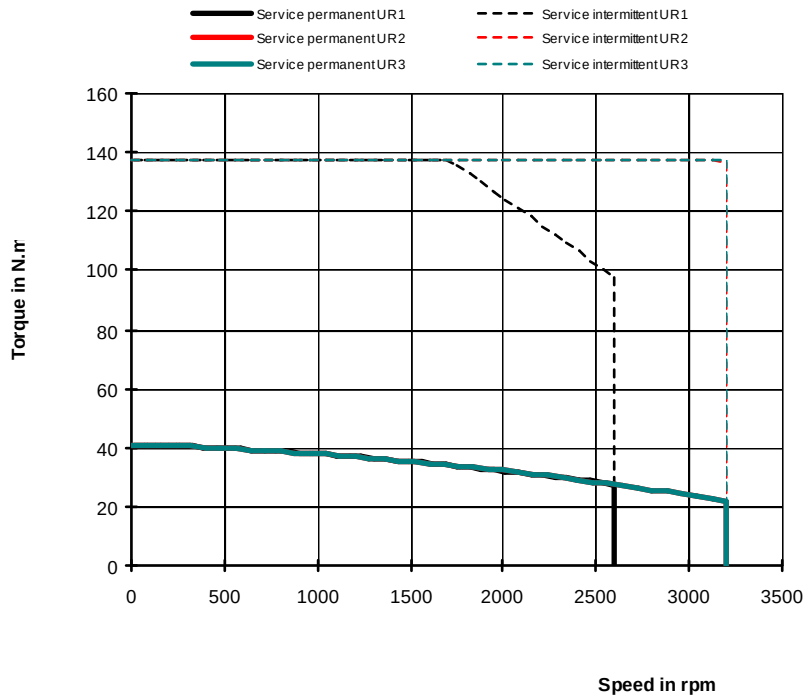
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V _{rms}	480		
Max mechanical speed	Nmax	t/min	8000		
Torque at low speed	M _b	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	kgm²x10 ⁻⁵	920		
Thermal time constant	T _{th}	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



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

FICHE-009

Création: 26 mars 2003	Edition: 23/juin/2010	NX860EAD	.b
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BRUSHLESS MOTORS			
NX860EAF			
ELECTRONIC DRIVE			
DRIVE 28 / 110 Arms			

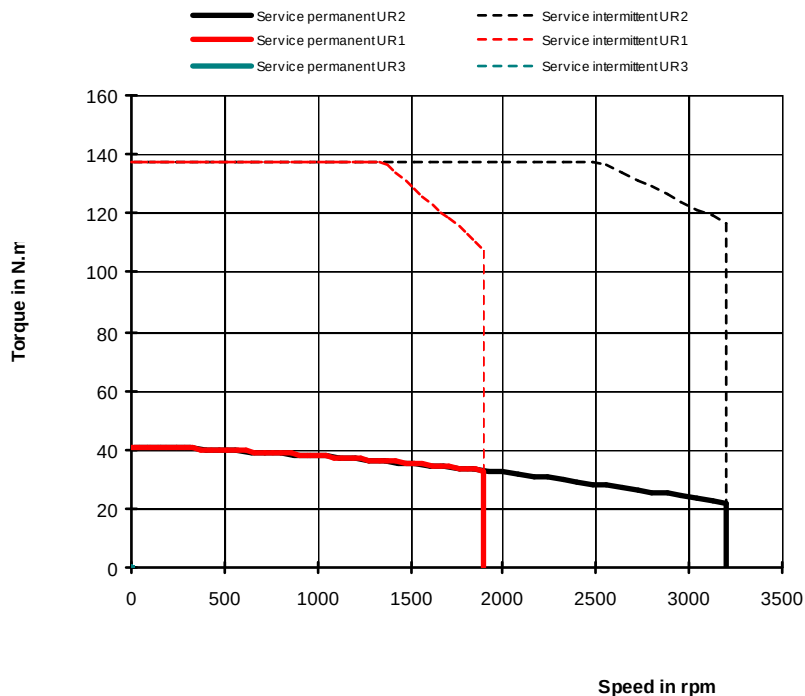
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V _{rms}	400	
Max mechanical speed	Nmax	t/min	8000	
Torque at low speed	M _b	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 ² ×10 ⁻⁵	920	
Thermal time constant	T _{th}	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

FICHE-009

Création: 27 juin 2003	Edition:	23/juin/2010	NX860EAF	.a
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BRUSHLESS MOTORS

NX860EAJ

ELECTRONIC DRIVE

DRIVE 20 / 75 Arms



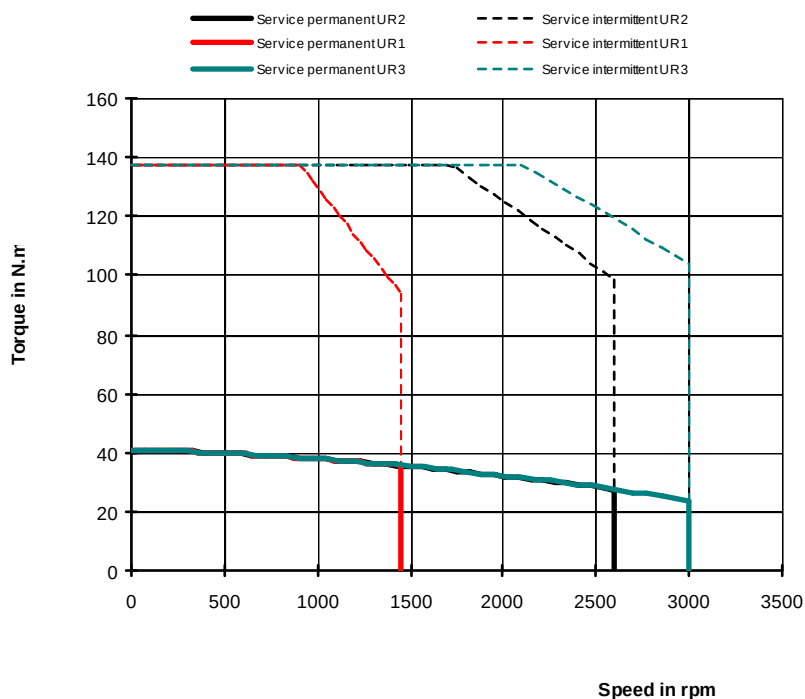
Characteristics are given for an optimal drive of the motor and an adaptive phase advance

Max voltage of the mains	Ur max	V _{rms}	480		
Max mechanical speed	Nmax	t/min	8000		
Torque at low speed	M _b	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 ² ×10 ⁻⁵	920		
Thermal time constant	T _{th}	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



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

FICHE-009

Création: 06 juin 2002

Edition:

23/juin/2010

NX860EAJ

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BRUSHLESS MOTORS					
NX860VAJ					
ELECTRONIC DRIVE					
DRIVE 30 / 75 Arms					

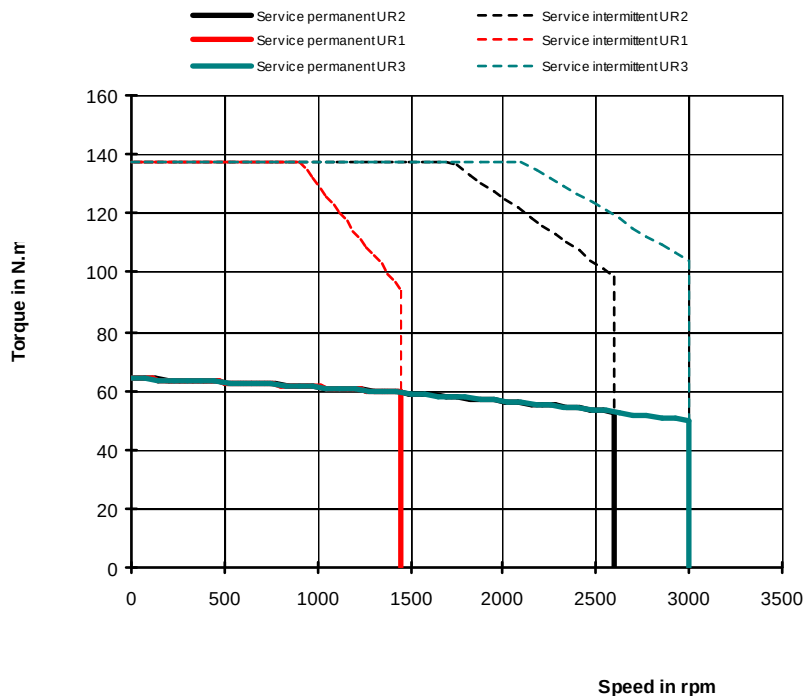
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V _{rms}	480		
Max mechanical speed	Nmax	t/min	8000		
Torque at low speed	M _b	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	kgm²x10 ⁻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

FICHE-009

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BRUSHLESS MOTORS					
NX860VAF					
ELECTRONIC DRIVE					
DRIVE 45 / 110 Arms					

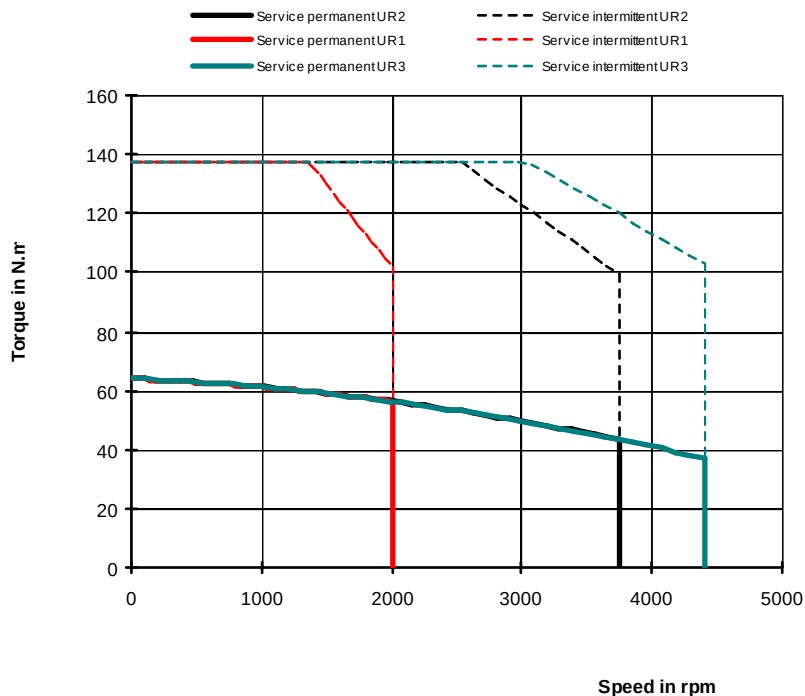
Characteristics are given for an optimal drive of the motor and an adaptive phase advance

Max voltage of the mains	Ur max	V _{rms}	480		
Max mechanical speed	Nmax	t/min	8000		
Torque at low speed	M _b	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	kgm²×10 ⁻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 adaptive phase advance

FICHE-009

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