BRUSHLESS MOTORS

EX310EAK

ELECTRONIC DRIVE

DRIVE 2.5/10 Arms 230 Vac

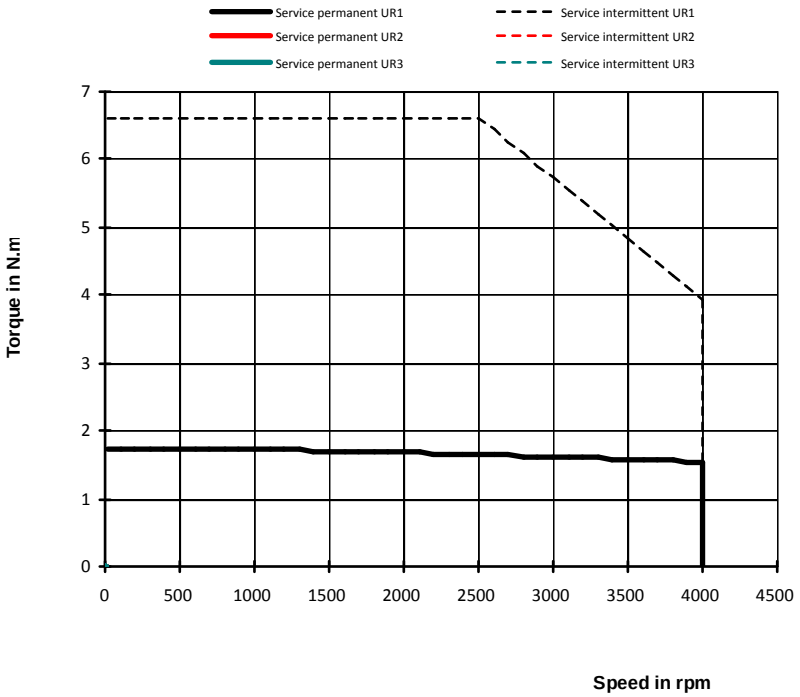
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V_{rms}		230	
Max **mechanical** speed	Nmax	t/min		15000	
Torque at low speed	M_o	Nm		1.75	
Permanent current at low speed	I_o	A_{rms}		2.16	
Peak torque	M_p	Nm		6.6	--
Current for the peak torque	I_p	A_{rms}		9.85	--
Back emf constant at 1000 rpm (25°C)*	Ke	V_{rms}		50.9	
Torque sensitivity	Kt	Nm/A_{rms}		0.81	
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		2.4	
Voltage of the mains	UR1 UR2 UR3	V_{rms}	230	-	-
Rated speed	Nn1 Nn2 Nn3	t/min	4000	-	-
Rated torque	Mn1 Mn2 Mn3	Nm	1.54	-	-
Rated current	In1 In2 In3	A_{rms}	1.96	-	-
Rated power	Pn1 Pn2 Pn3	W	640	-	-

All data are given in typical values under standard conditions

** Phase to phase*

Voltages and currents are given in rms values



BRUSHLESS MOTORS

EX310EAP

ELECTRONIC DRIVE

DRIVE 1.5/6 Arms 400 Vac

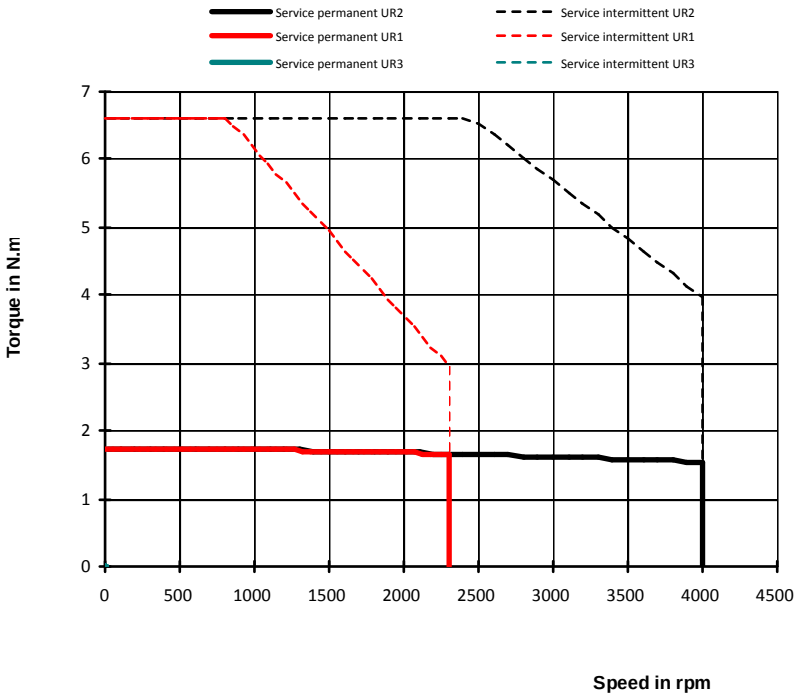
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V_{rms}		400	
Max **mechanical** speed	Nmax	t/min		15000	
Torque at low speed	M_o	Nm		1.75	
Permanent current at low speed	I_o	A_{rms}		1.24	
Peak torque	M_p	Nm		6.6	--
Current for the peak torque	I_p	A_{rms}		5.64	--
Back emf constant at 1000 rpm (25°C)*	Ke	V_{rms}		88.9	
Torque sensitivity	Kt	Nm/A_{rms}		1.42	
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		2.4	
Voltage of the mains	UR1 UR2 UR3	V_{rms}	230	400	-
Rated speed	Nn1 Nn2 Nn3	t/min	2300	4000	-
Rated torque	Mn1 Mn2 Mn3	Nm	1.66	1.54	-
Rated current	In1 In2 In3	A_{rms}	1.19	1.12	-
Rated power	Pn1 Pn2 Pn3	W	400	640	-

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

EX420EAJ

ELECTRONIC DRIVE

DRIVE 5/20 Arms 230 Vac

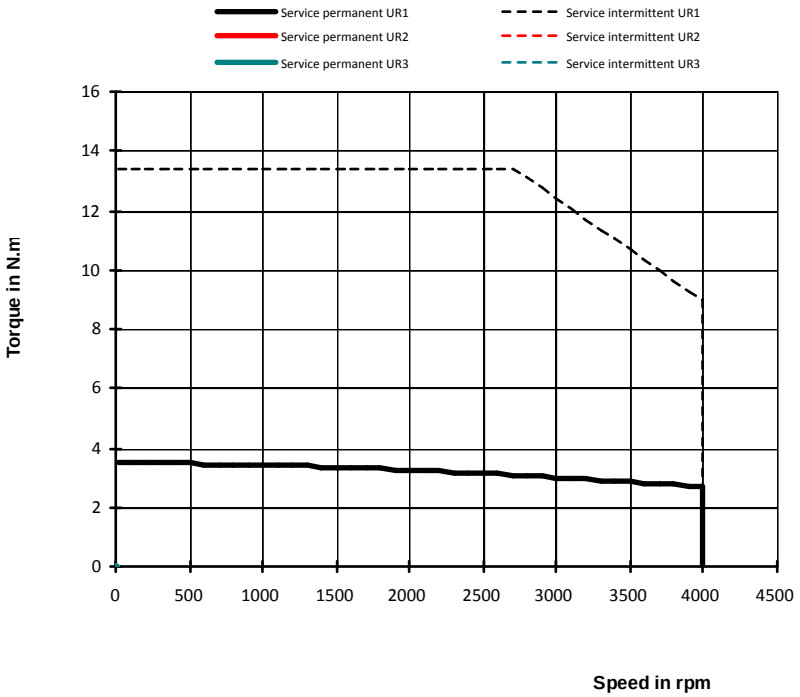
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V_{rms}		230	
Max **mechanical** speed	Nmax	t/min		12000	
Torque at low speed	M_o	Nm		3.5	
Permanent current at low speed	I_o	A_{rms}		4.26	
Peak torque	M_p	Nm		13.4	--
Current for the peak torque	I_p	A_{rms}		19.6	--
Back emf constant at 1000 rpm (25°C)*	Ke	V_{rms}		51.4	
Torque sensitivity	Kt	Nm/A_{rms}		0.821	
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		5.8	
Voltage of the mains	UR1 UR2 UR3	V_{rms}	230	-	-
Rated speed	Nn1 Nn2 Nn3	t/min	4000	-	-
Rated torque	Mn1 Mn2 Mn3	Nm	2.67	-	-
Rated current	In1 In2 In3	A_{rms}	3.33	-	-
Rated power	Pn1 Pn2 Pn3	W	1120	-	-

All data are given in typical values under standard conditions

** Phase to phase*

Voltages and currents are given in rms values



BRUSHLESS MOTORS

EX420EAP

ELECTRONIC DRIVE

DRIVE 2.5/12 Arms 400 Vac

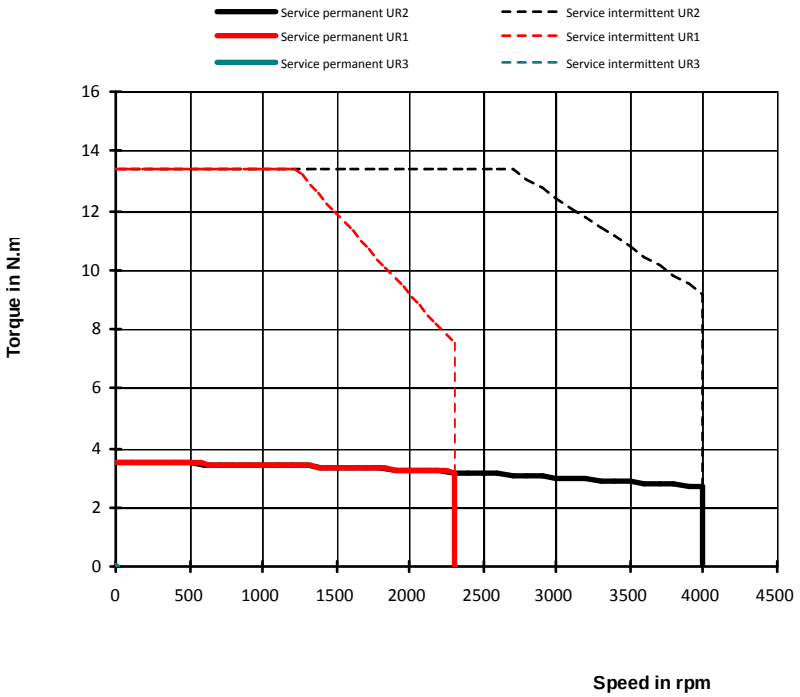
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V_{rms}		400	
Max **mechanical** speed	Nmax	t/min		12000	
Torque at low speed	M_o	Nm		3.5	
Permanent current at low speed	I_o	A_{rms}		2.46	
Peak torque	M_p	Nm		13.4	--
Current for the peak torque	I_p	A_{rms}		11.3	--
Back emf constant at 1000 rpm (25°C)*	Ke	V_{rms}		89	
Torque sensitivity	Kt	Nm/A_{rms}		1.42	
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		5.8	
Voltage of the mains	UR1 UR2 UR3	V_{rms}	230	400	-
Rated speed	Nn1 Nn2 Nn3	t/min	2300	4000	-
Rated torque	Mn1 Mn2 Mn3	Nm	3.18	2.67	-
Rated current	In1 In2 In3	A_{rms}	2.26	1.92	-
Rated power	Pn1 Pn2 Pn3	W	770	1120	-

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

Création: 10 mai 2004	Edition:	03/nov/2010		EX420EAP	.a

BRUSHLESS MOTORS

EX420EAV

ELECTRONIC DRIVE

DRIVE 1.5/6 Arms 400 Vac

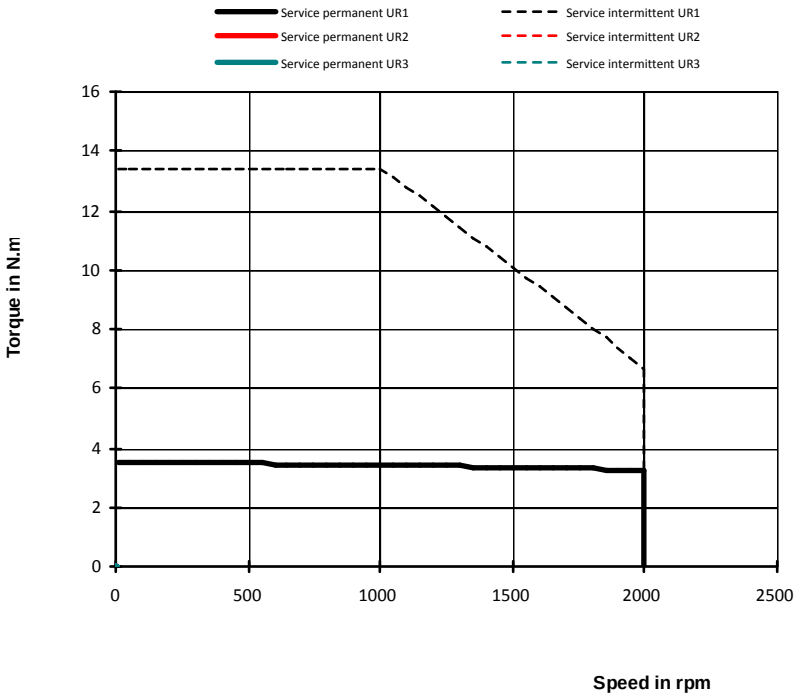
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V_{rms}		400	
Max **mechanical** speed	Nmax	t/min		12000	
Torque at low speed	M_o	Nm		3.5	
Permanent current at low speed	I_o	A_{rms}		1.24	
Peak torque	M_p	Nm		13.4	--
Current for the peak torque	I_p	A_{rms}		5.68	--
Back emf constant at 1000 rpm (25°C)*	Ke	V_{rms}		177	
Torque sensitivity	Kt	Nm/A_{rms}		2.83	
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		5.8	
Voltage of the mains	UR1 UR2 UR3	V_{rms}	400	-	-
Rated speed	Nn1 Nn2 Nn3	t/min	2000	-	-
Rated torque	Mn1 Mn2 Mn3	Nm	3.25	-	-
Rated current	In1 In2 In3	A_{rms}	1.16	-	-
Rated power	Pn1 Pn2 Pn3	W	680	-	-

All data are given in typical values under standard conditions

** Phase to phase*

Voltages and currents are given in rms values



BRUSHLESS MOTORS

EX430EAF

ELECTRONIC DRIVE

DRIVE 6/20 Arms 230 Vac

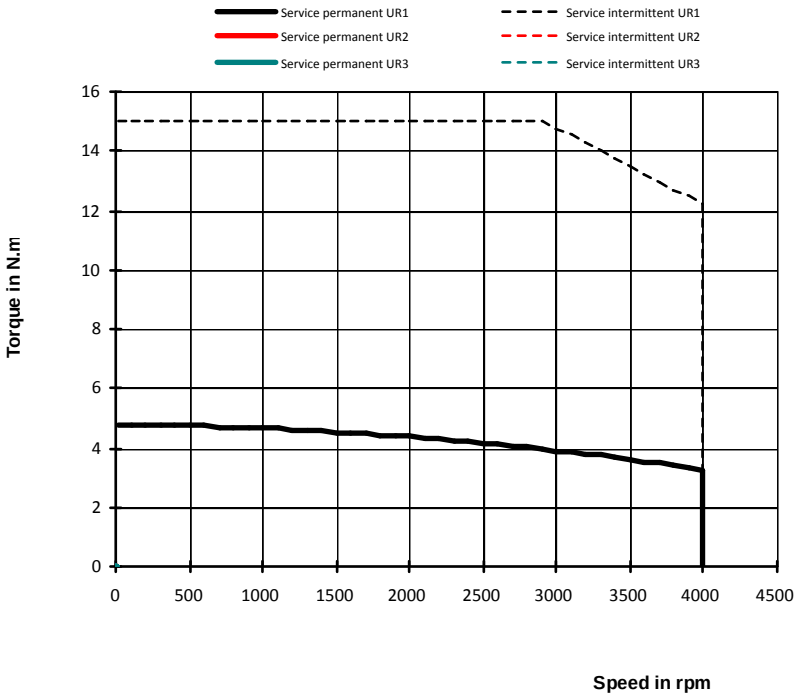
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V_{rms}		230	
Max **mechanical** speed	Nmax	t/min		12000	
Torque at low speed	M_o	Nm		4.8	
Permanent current at low speed	I_o	A_{rms}		5.79	
Peak torque	M_p	Nm		18.8	--
Current for the peak torque	I_p	A_{rms}		26.6	--
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		7	
Voltage of the mains	UR1 UR2 UR3	V_{rms}	230	-	-
Rated speed	Nn1 Nn2 Nn3	t/min	4000	-	-
Rated torque	Mn1 Mn2 Mn3	Nm	3.28	-	-
Rated current	In1 In2 In3	A_{rms}	4.07	-	-
Rated power	Pn1 Pn2 Pn3	W	1370	-	-

All data are given in typical values under standard conditions

** Phase to phase*

Voltages and currents are given in rms values



BRUSHLESS MOTORS

EX430EAJ

ELECTRONIC DRIVE

DRIVE 5/20 Arms 230 Vac

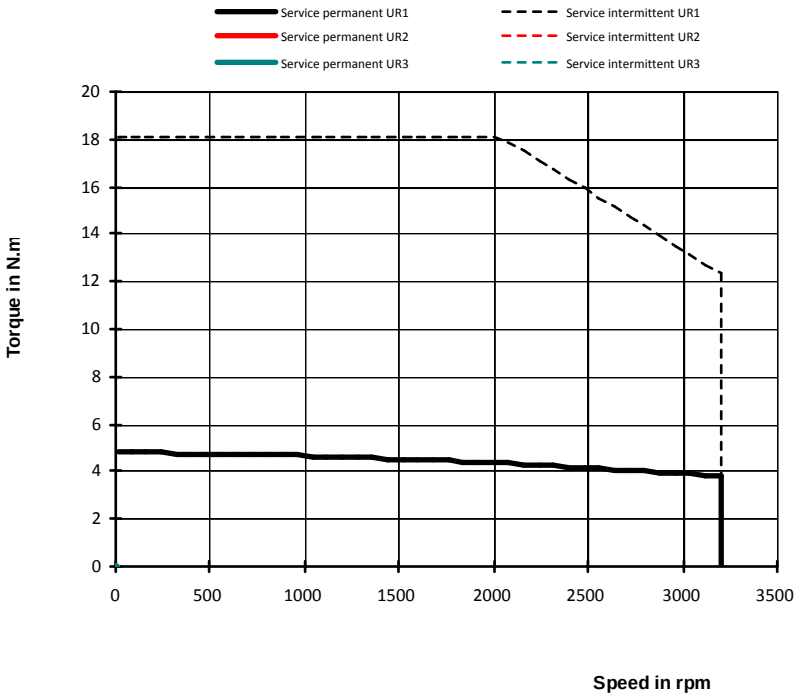
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V_{rms}		230	
Max **mechanical** speed	Nmax	t/min		12000	
Torque at low speed	M_o	Nm		4.8	
Permanent current at low speed	I_o	A_{rms}		4.57	
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		7	
Voltage of the mains	UR1 UR2 UR3	V_{rms}	230	-	-
Rated speed	Nn1 Nn2 Nn3	t/min	3200	-	-
Rated torque	Mn1 Mn2 Mn3	Nm	3.79	-	-
Rated current	In1 In2 In3	A_{rms}	3.68	-	-
Rated power	Pn1 Pn2 Pn3	W	1270	-	-

All data are given in typical values under standard conditions

** Phase to phase*

Voltages and currents are given in rms values



BRUSHLESS MOTORS

EX430EAL

ELECTRONIC DRIVE

DRIVE 3.5/12 Arms 400 Vac

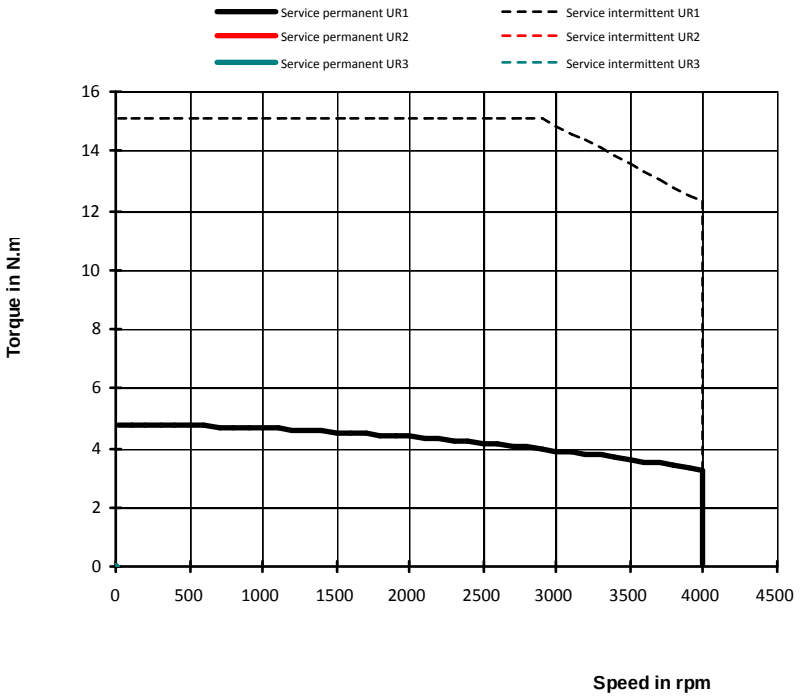
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V_{rms}		400	
Max **mechanical** speed	Nmax	t/min		12000	
Torque at low speed	M_o	Nm		4.8	
Permanent current at low speed	I_o	A_{rms}		3.3	
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		7	
Voltage of the mains	UR1 UR2 UR3	V_{rms}	400	-	-
Rated speed	Nn1 Nn2 Nn3	t/min	4000	-	-
Rated torque	Mn1 Mn2 Mn3	Nm	3.28	-	-
Rated current	In1 In2 In3	A_{rms}	2.32	-	-
Rated power	Pn1 Pn2 Pn3	W	1370	-	-

All data are given in typical values under standard conditions

** Phase to phase*

Voltages and currents are given in rms values



BRUSHLESS MOTORS

EX430EAP

ELECTRONIC DRIVE

DRIVE 2.5/12 Arms 400 Vac

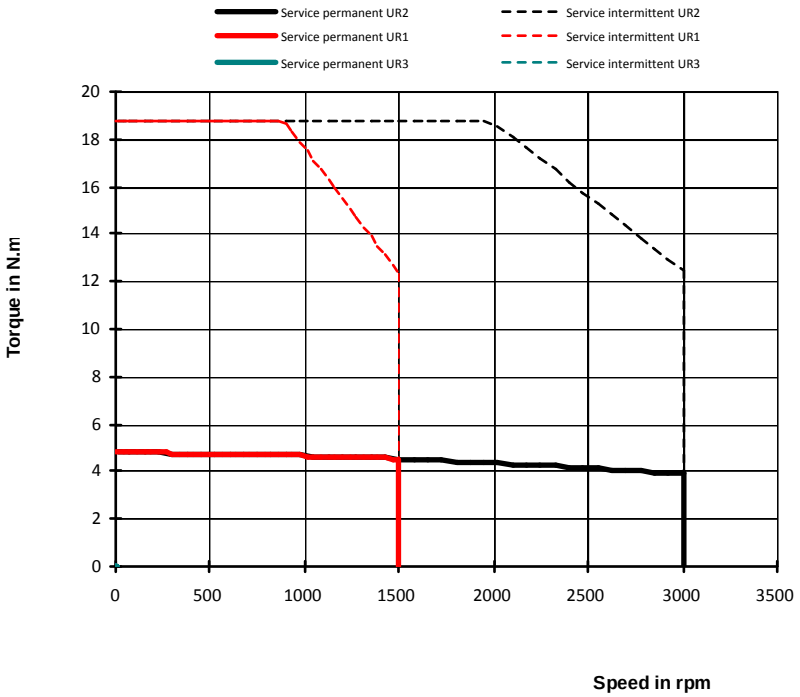
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V_{rms}		400	
Max **mechanical** speed	Nmax	t/min		12000	
Torque at low speed	M_o	Nm		4.8	
Permanent current at low speed	I_o	A_{rms}		2.46	
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		7	
Voltage of the mains	UR1 UR2 UR3	V_{rms}	230	400	-
Rated speed	Nn1 Nn2 Nn3	t/min	1500	3000	-
Rated torque	Mn1 Mn2 Mn3	Nm	4.53	3.90	-
Rated current	In1 In2 In3	A_{rms}	2.34	2.03	-
Rated power	Pn1 Pn2 Pn3	W	710	1230	-

All data are given in typical values under standard conditions

** Phase to phase*

Voltages and currents are given in rms values



BRUSHLESS MOTORS

EX620EAO

ELECTRONIC DRIVE

DRIVE 6/23 Arms 400 Vac

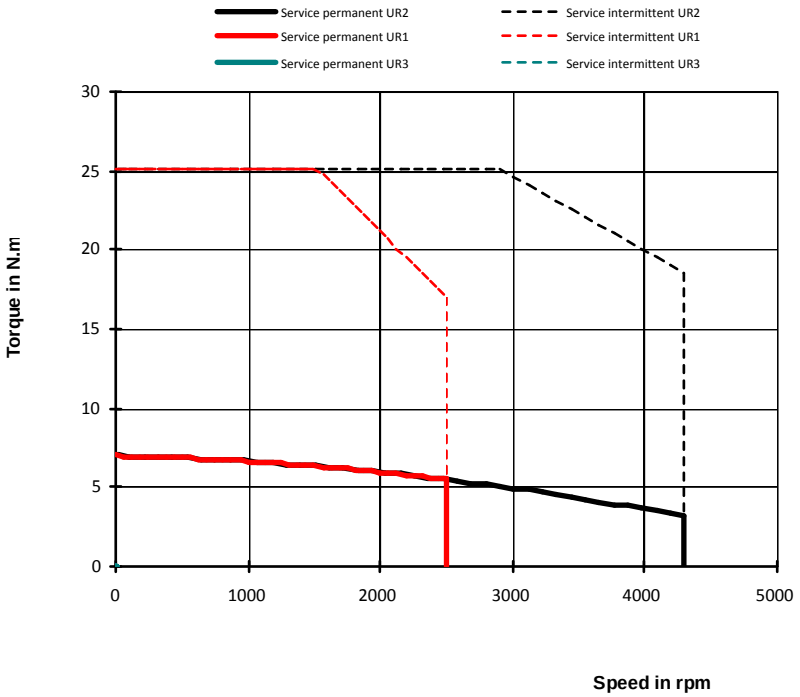
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V_{rms}		400	
Max **mechanical** speed	Nmax	t/min		10000	
Torque at low speed	M_o	Nm		7	
Permanent current at low speed	I_o	A_{rms}		5.51	
Peak torque	M_p	Nm		26.7	--
Current for the peak torque	I_p	A_{rms}		24.8	--
Back emf constant at 1000 rpm (25°C)*	Ke	V_{rms}		81.7	
Torque sensitivity	Kt	Nm/A_{rms}		1.27	
Winding resistance (25°C)*	Rb	W		1.63	
Winding inductance*	L	mH		14	
Rotor inertia	J	kgm^2x10^{-5}		98	
Thermal time constant	Tth	min		27	
Motor mass	M	kg		11.3	
Voltage of the mains	UR1 UR2 UR3	V_{rms}	230	400	-
Rated speed	Nn1 Nn2 Nn3	t/min	2500	4300	-
Rated torque	Mn1 Mn2 Mn3	Nm	5.49	3.13	-
Rated current	In1 In2 In3	A_{rms}	4.47	2.75	-
Rated power	Pn1 Pn2 Pn3	W	1440	1410	-

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

Création: 08 déc 2003	Edition:	03/nov/2010		EX620EAO	.a

BRUSHLESS MOTORS

EX630EAI

ELECTRONIC DRIVE

DRIVE 10/36 Arms 230 Vac

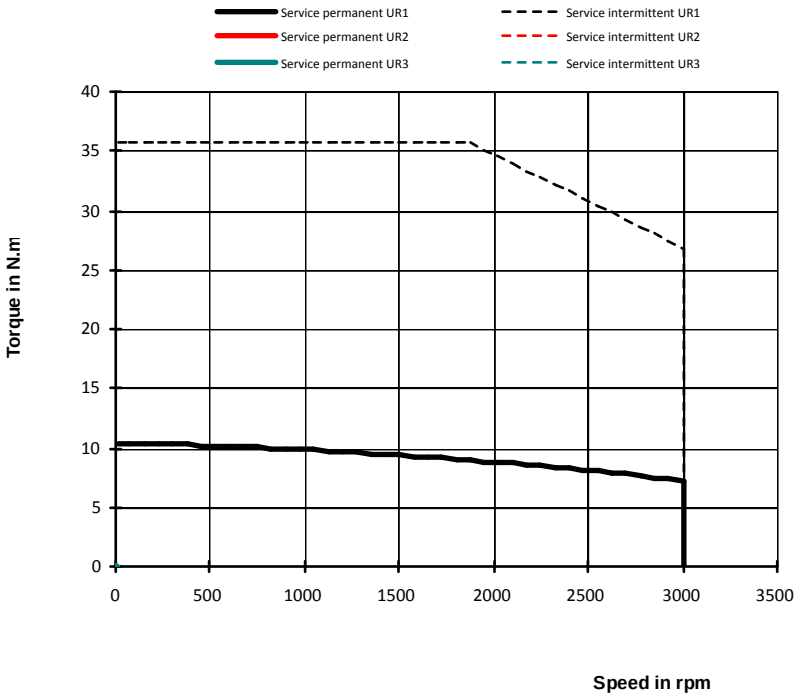
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V_{rms}		230	
Max **mechanical** speed	Nmax	t/min		10000	
Torque at low speed	M_o	Nm		10.4	
Permanent current at low speed	I_o	A_{rms}		9.28	
Peak torque	M_p	Nm		40.0	--
Current for the peak torque	I_p	A_{rms}		42.2	--
Back emf constant at 1000 rpm (25°C)*	Ke	V_{rms}		68.2	
Torque sensitivity	Kt	Nm/A_{rms}		1.12	
Winding resistance (25°C)*	Rb	W		0.595	
Winding inductance*	L	mH		6.06	
Rotor inertia	J	kgm^2x10^{-5}		147	
Thermal time constant	Tth	min		33	
Motor mass	M	kg		12.5	
Voltage of the mains	UR1 UR2 UR3	V_{rms}	230	-	-
Rated speed	Nn1 Nn2 Nn3	t/min	3000	-	-
Rated torque	Mn1 Mn2 Mn3	Nm	7.24	-	-
Rated current	In1 In2 In3	A_{rms}	6.75	-	-
Rated power	Pn1 Pn2 Pn3	W	2270	-	-

All data are given in typical values under standard conditions

** Phase to phase*

Voltages and currents are given in rms values



BRUSHLESS MOTORS

EX630EAN

ELECTRONIC DRIVE

DRIVE 7/23 Arms 400 Vac

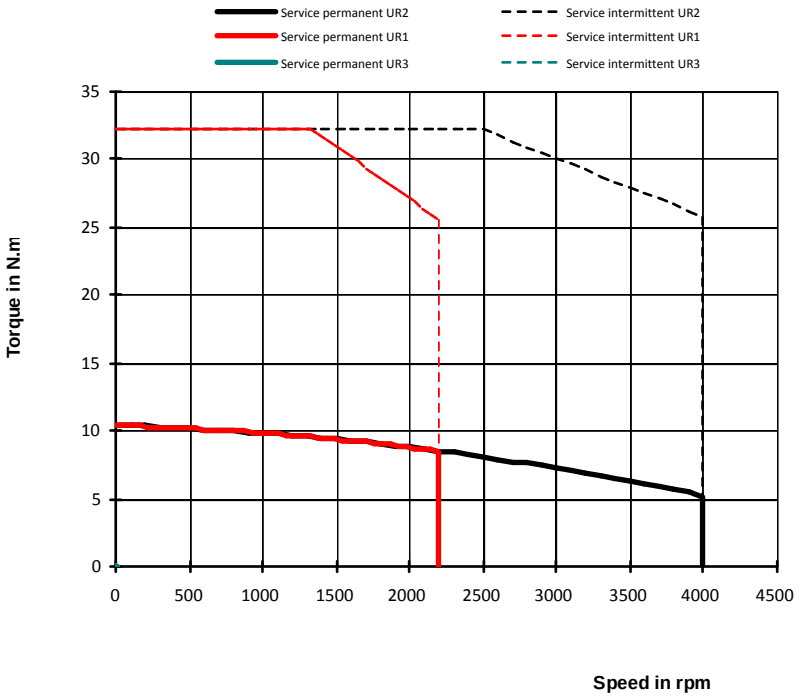
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V_{rms}		400	
Max **mechanical** speed	Nmax	t/min		10000	
Torque at low speed	M_o	Nm		10.4	
Permanent current at low speed	I_o	A_{rms}		6.92	
Peak torque	M_p	Nm		40.0	--
Current for the peak torque	I_p	A_{rms}		31.4	--
Back emf constant at 1000 rpm (25°C)*	Ke	V_{rms}		91.6	
Torque sensitivity	Kt	Nm/A_{rms}		1.5	
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		12.5	
Voltage of the mains	UR1 UR2 UR3	V_{rms}	230	400	-
Rated speed	Nn1 Nn2 Nn3	t/min	2200	4000	-
Rated torque	Mn1 Mn2 Mn3	Nm	8.52	5.20	-
Rated current	In1 In2 In3	A_{rms}	5.81	3.76	-
Rated power	Pn1 Pn2 Pn3	W	1960	2180	-

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

Création: 05 déc 2003	Edition:	03/nov/2010		EX630EAN	.a

BRUSHLESS MOTORS

EX630EAY

ELECTRONIC DRIVE

DRIVE 6/23 Arms 400 Vac

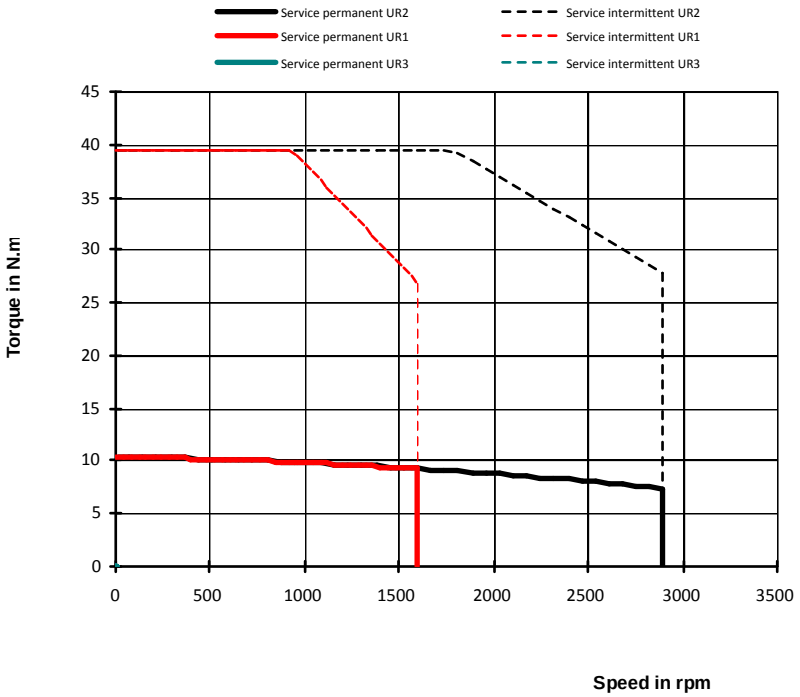
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V_{rms}		400	
Max **mechanical** speed	Nmax	t/min		10000	
Torque at low speed	M_o	Nm		10.4	
Permanent current at low speed	I_o	A_{rms}		5.11	
Peak torque	M_p	Nm		40.0	--
Current for the peak torque	I_p	A_{rms}		23.2	--
Back emf constant at 1000 rpm (25°C)*	Ke	V_{rms}		124	
Torque sensitivity	Kt	Nm/A_{rms}		2.03	
Winding resistance (25°C)*	Rb	W		1.94	
Winding inductance*	L	mH		20	
Rotor inertia	J	kgm^2x10^{-5}		147	
Thermal time constant	Tth	min		33	
Motor mass	M	kg		12.5	
Voltage of the mains	UR1 UR2 UR3	V_{rms}	230	400	-
Rated speed	Nn1 Nn2 Nn3	t/min	1600	2900	-
Rated torque	Mn1 Mn2 Mn3	Nm	9.27	7.42	-
Rated current	In1 In2 In3	A_{rms}	4.63	3.80	-
Rated power	Pn1 Pn2 Pn3	W	1550	2250	-

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

Création: 16 déc 2003	Edition:	03/nov/2010		EX630EAY	.a

BRUSHLESS MOTORS

EX820EAL

ELECTRONIC DRIVE

DRIVE 15/67 Arms 230 Vac

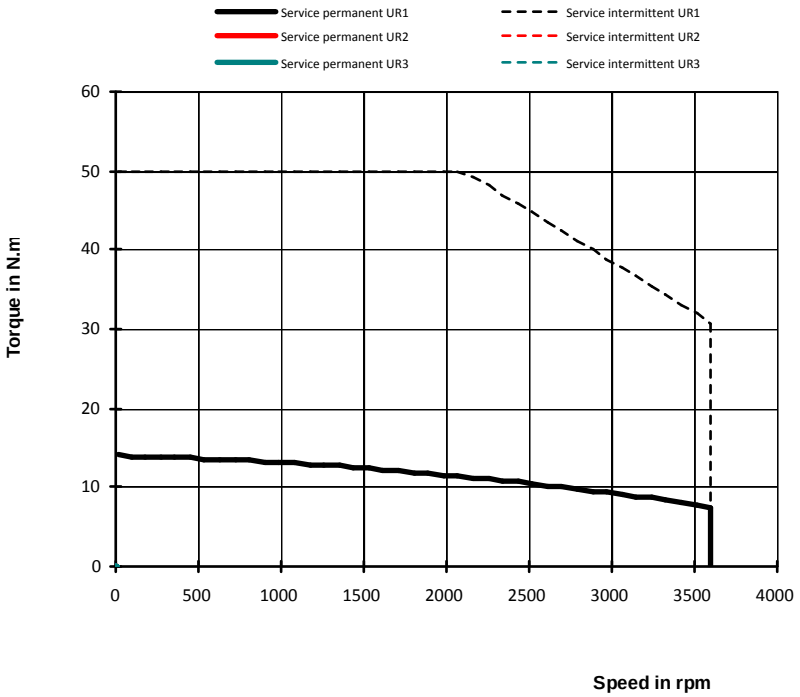
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V_{rms}		230	
Max **mechanical** speed	Nmax	t/min		8000	
Torque at low speed	M_o	Nm		14	
Permanent current at low speed	I_o	A_{rms}		14.9	
Peak torque	M_p	Nm		50.0	--
Current for the peak torque	I_p	A_{rms}		66.9	--
Back emf constant at 1000 rpm (25°C)*	Ke	V_{rms}		58.1	
Torque sensitivity	Kt	Nm/A_{rms}		0.943	
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		24	
Voltage of the mains	UR1 UR2 UR3	V_{rms}	230	-	-
Rated speed	Nn1 Nn2 Nn3	t/min	3600	-	-
Rated torque	Mn1 Mn2 Mn3	Nm	7.53	-	-
Rated current	In1 In2 In3	A_{rms}	8.30	-	-
Rated power	Pn1 Pn2 Pn3	W	2840	-	-

All data are given in typical values under standard conditions

** Phase to phase*

Voltages and currents are given in rms values



BRUSHLESS MOTORS

EX820EAR

ELECTRONIC DRIVE

DRIVE 10/42 Arms 400 Vac

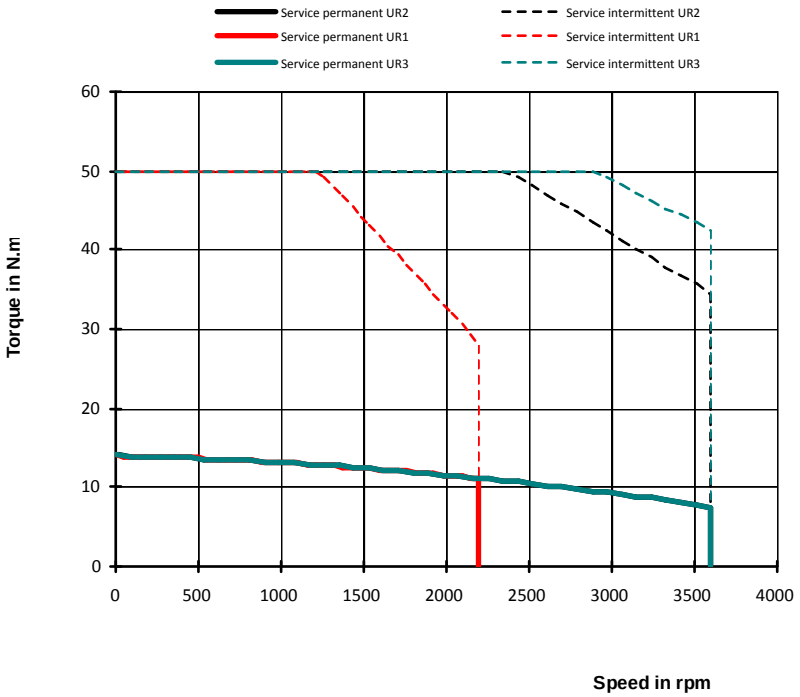
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V_{rms}		480	
Max **mechanical** speed	Nmax	t/min		8000	
Torque at low speed	M_o	Nm		14	
Permanent current at low speed	I_o	A_{rms}		9.28	
Peak torque	M_p	Nm		50.0	--
Current for the peak torque	I_p	A_{rms}		41.8	--
Back emf constant at 1000 rpm (25°C)*	Ke	V_{rms}		93	
Torque sensitivity	Kt	Nm/A_{rms}		1.51	
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		24	
Voltage of the mains	UR1 UR2 UR3	V_{rms}	230	400	480
Rated speed	Nn1 Nn2 Nn3	t/min	2200	3600	3600
Rated torque	Mn1 Mn2 Mn3	Nm	11.16	7.53	7.53
Rated current	In1 In2 In3	A_{rms}	7.49	5.19	5.19
Rated power	Pn1 Pn2 Pn3	W	2570	2840	2840

All data are given in typical values under standard conditions

** Phase to phase*

Voltages and currents are given in rms values



BRUSHLESS MOTORS

EX820EAW

ELECTRONIC DRIVE

DRIVE 6/25 Arms 400 Vac

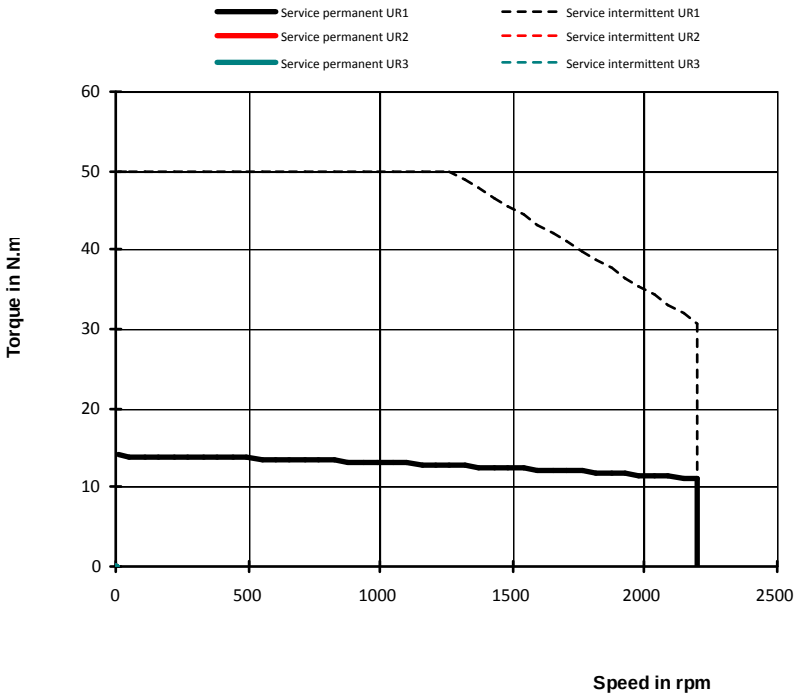
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V_{rms}		400	
Max **mechanical** speed	Nmax	t/min		8000	
Torque at low speed	M_o	Nm		14	
Permanent current at low speed	I_o	A_{rms}		5.4	
Peak torque	M_p	Nm		50.0	--
Current for the peak torque	I_p	A_{rms}		24.3	--
Back emf constant at 1000 rpm (25°C)*	Ke	V_{rms}		160	
Torque sensitivity	Kt	Nm/A_{rms}		2.59	
Winding resistance (25°C)*	Rb	W		2.96	
Winding inductance*	L	mH		25.3	
Rotor inertia	J	kgm^2x10^{-5}		320	
Thermal time constant	Tth	min		34	
Motor mass	M	kg		24	
Voltage of the mains	UR1 UR2 UR3	V_{rms}	400	-	-
Rated speed	Nn1 Nn2 Nn3	t/min	2200	-	-
Rated torque	Mn1 Mn2 Mn3	Nm	11.16	-	-
Rated current	In1 In2 In3	A_{rms}	4.36	-	-
Rated power	Pn1 Pn2 Pn3	W	2570	-	-

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

Création: 07 mai 2004	Edition:	03/nov/2010		EX820EAW	.a

BRUSHLESS MOTORS

EX840EAJ

ELECTRONIC DRIVE

DRIVE 16/73 Arms 230 Vac

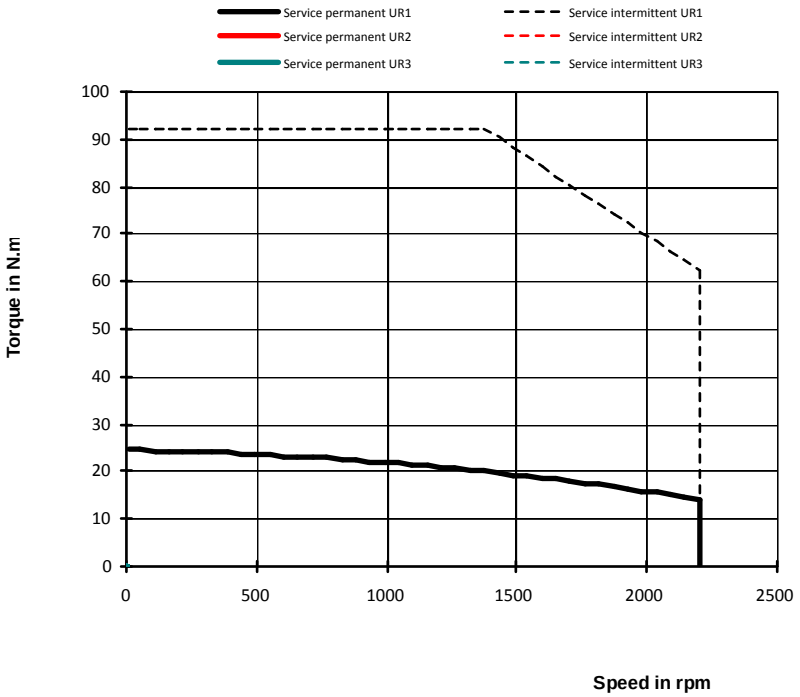
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V_{rms}		230	
Max **mechanical** speed	Nmax	t/min		8000	
Torque at low speed	M_o	Nm		24.5	
Permanent current at low speed	I_o	A_{rms}		16	
Peak torque	M_p	Nm		92.0	--
Current for the peak torque	I_p	A_{rms}		72.7	--
Back emf constant at 1000 rpm (25°C)*	Ke	V_{rms}		94.2	
Torque sensitivity	Kt	Nm/A_{rms}		1.53	
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		32	
Voltage of the mains	UR1 UR2 UR3	V_{rms}	230	-	-
Rated speed	Nn1 Nn2 Nn3	t/min	2200	-	-
Rated torque	Mn1 Mn2 Mn3	Nm	14.18	-	-
Rated current	In1 In2 In3	A_{rms}	9.54	-	-
Rated power	Pn1 Pn2 Pn3	W	3270	-	-

All data are given in typical values under standard conditions

** Phase to phase*

Voltages and currents are given in rms values



BRUSHLESS MOTORS

EX840EAK

ELECTRONIC DRIVE

DRIVE 15/70 Arms 400 Vac

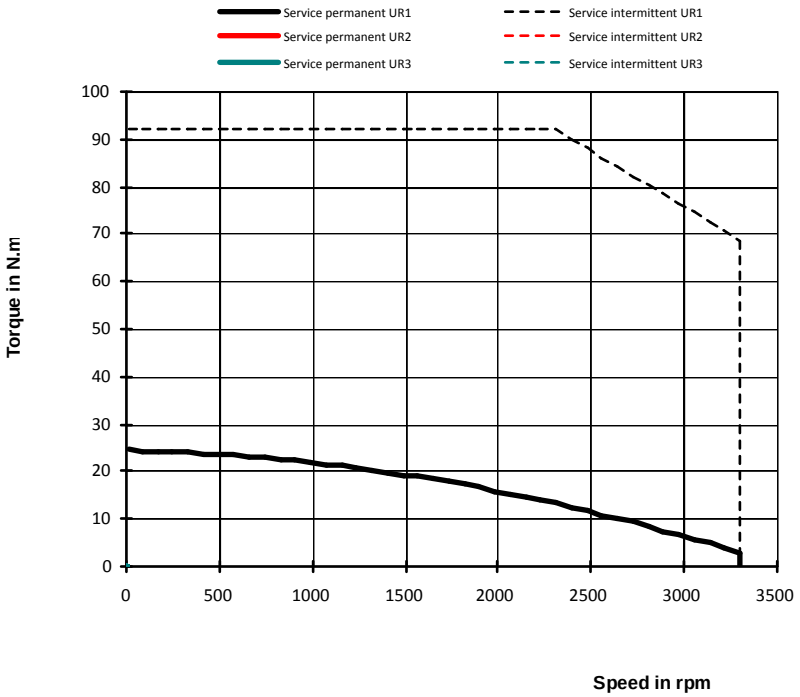
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V_{rms}		400	
Max **mechanical** speed	Nmax	t/min		8000	
Torque at low speed	M_o	Nm		24.5	
Permanent current at low speed	I_o	A_{rms}		14.3	
Peak torque	M_p	Nm		92.0	--
Current for the peak torque	I_p	A_{rms}		64.7	--
Back emf constant at 1000 rpm (25°C)*	Ke	V_{rms}		106	
Torque sensitivity	Kt	Nm/A_{rms}		1.72	
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		32	
Voltage of the mains	UR1 UR2 UR3	V_{rms}	400	-	-
Rated speed	Nn1 Nn2 Nn3	t/min	3300	-	-
Rated torque	Mn1 Mn2 Mn3	Nm	2.85	-	-
Rated current	In1 In2 In3	A_{rms}	2.07	-	-
Rated power	Pn1 Pn2 Pn3	W	990	-	-

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

Création: 18 mai 2004	Edition:	03/nov/2010		EX840EAK	.a

BRUSHLESS MOTORS

EX840EAQ

ELECTRONIC DRIVE

DRIVE 10/40 Arms 400 Vac

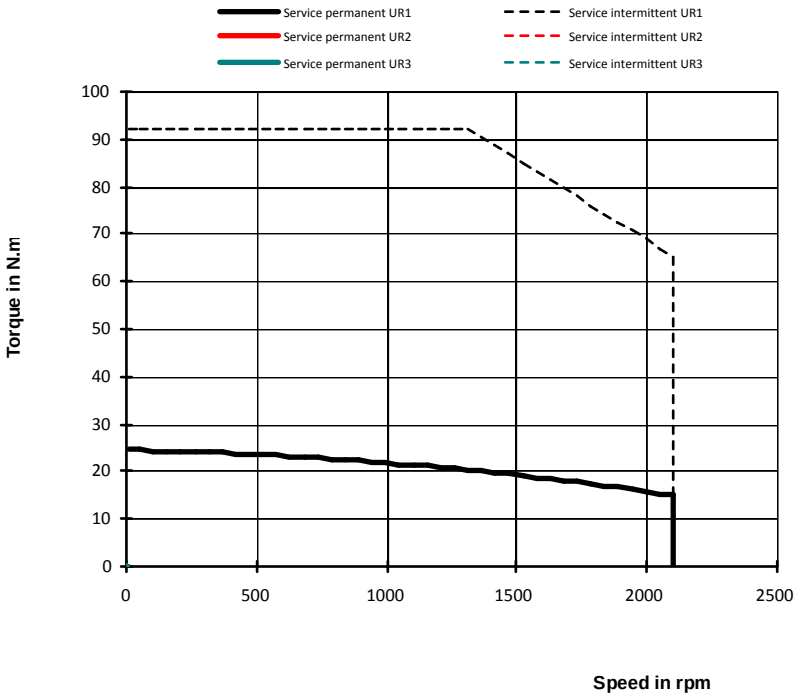
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V_{rms}		400	
Max **mechanical** speed	Nmax	t/min		8000	
Torque at low speed	M_o	Nm		24.5	
Permanent current at low speed	I_o	A_{rms}		8.55	
Peak torque	M_p	Nm		92.0	--
Current for the peak torque	I_p	A_{rms}		38.8	--
Back emf constant at 1000 rpm (25°C)*	Ke	V_{rms}		177	
Torque sensitivity	Kt	Nm/A_{rms}		2.87	
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		32	
Voltage of the mains	UR1 UR2 UR3	V_{rms}	400	-	-
Rated speed	Nn1 Nn2 Nn3	t/min	2100	-	-
Rated torque	Mn1 Mn2 Mn3	Nm	15.01	-	-
Rated current	In1 In2 In3	A_{rms}	5.37	-	-
Rated power	Pn1 Pn2 Pn3	W	3300	-	-

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

Création: 18 mai 2004	Edition:	03/nov/2010		EX840EAQ	.a

BRUSHLESS MOTORS

EX860EAD

ELECTRONIC DRIVE

DRIVE 30/135 Arms 230 Vac

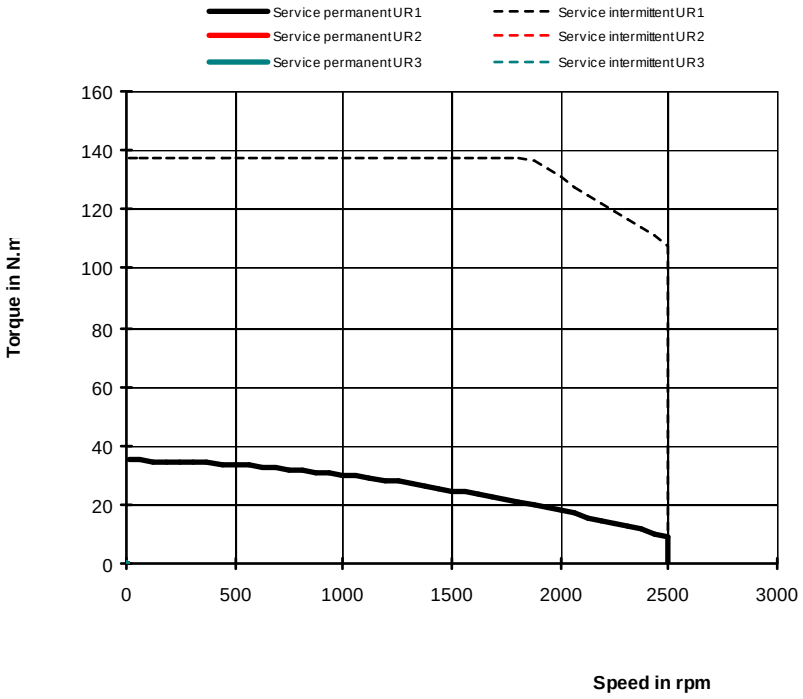
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V_{rms}		230	
Max **mechanical** speed	Nmax	t/min		8000	
Torque at low speed	M_o	Nm		35	
Permanent current at low speed	I_o	A_{rms}		27.9	
Peak torque	M_p	Nm		137.0	--
Current for the peak torque	I_p	A_{rms}		133	--
Back emf constant at 1000 rpm (25°C)*	Ke	V_{rms}		78.7	
Torque sensitivity	Kt	Nm/A_{rms}		1.26	
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		40	
Voltage of the mains	UR1 UR2 UR3	V_{rms}	230	-	-
Rated speed	Nn1 Nn2 Nn3	t/min	2500	-	-
Rated torque	Mn1 Mn2 Mn3	Nm	9.00	-	-
Rated current	In1 In2 In3	A_{rms}	7.82	-	-
Rated power	Pn1 Pn2 Pn3	W	2360	-	-

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

EX860EAJ

ELECTRONIC DRIVE

DRIVE 16/70 Arms 400 Vac

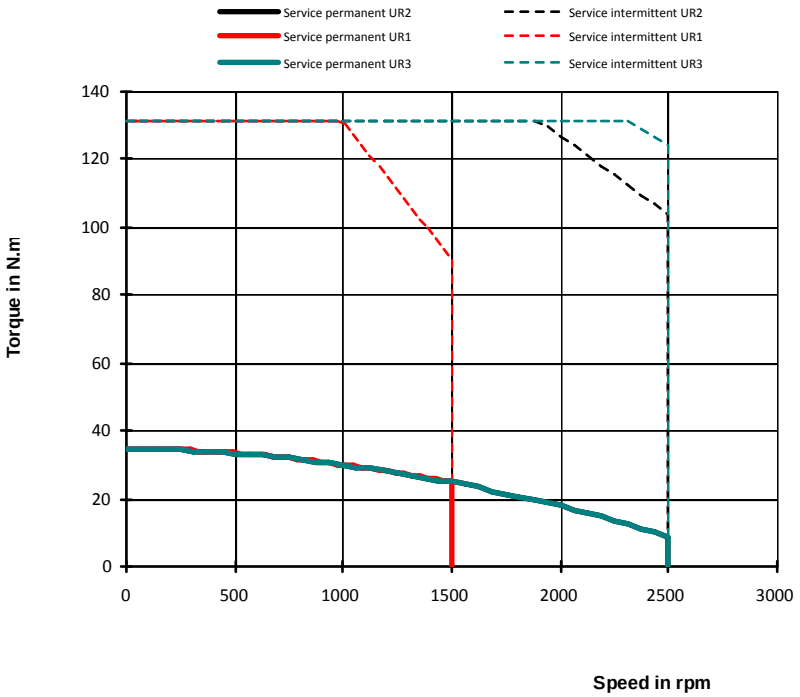
Characteristics are given for an optimal drive of the motor and an adaptative phase advance

Max voltage of the mains	Ur max	V_{rms}		480	
Max **mechanical** speed	Nmax	t/min		8000	
Torque at low speed	M_o	Nm		35	
Permanent current at low speed	I_o	A_{rms}		15.7	
Peak torque	M_p	Nm		137.0	--
Current for the peak torque	I_p	A_{rms}		75	--
Back emf constant at 1000 rpm (25°C)*	Ke	V_{rms}		140	
Torque sensitivity	Kt	Nm/A_{rms}		2.23	
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		40	
Voltage of the mains	UR1 UR2 UR3	V_{rms}	230	400	480
Rated speed	Nn1 Nn2 Nn3	t/min	1500	2500	2500
Rated torque	Mn1 Mn2 Mn3	Nm	24.80	9.00	9.00
Rated current	In1 In2 In3	A_{rms}	11.28	4.40	4.40
Rated power	Pn1 Pn2 Pn3	W	3900	2360	2360

All data are given in typical values under standard conditions

** Phase to phase*

Voltages and currents are given in rms values



BRUSHLESS MOTORS

EX310UAU

ELECTRONIC DRIVE

DRIVE 2.5/7 Arms 400 Vac

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

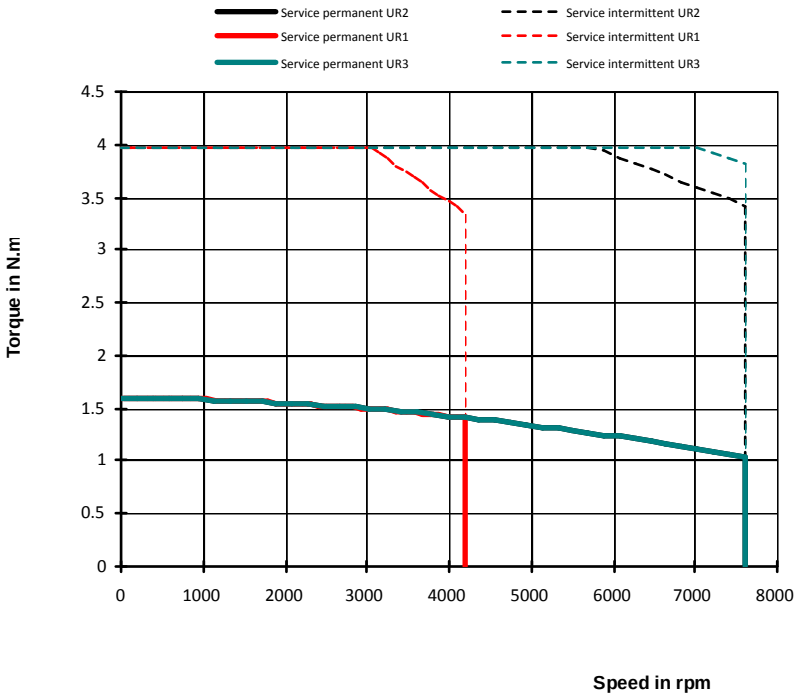
SAVE THESE INSTRUCTIONS

Max voltage of the mains	Ur max	V_{rms}		480	
Max **mechanical** speed	Nmax	t/min		15000	
Torque at low speed	M_o	Nm		1.6	
Permanent current at low speed	I_o	A_{rms}		2.46	
Peak torque	M_p	Nm		4.0	à Nn/2, Ip S3 :
Current for the peak torque	I_p	A_{rms}		6.29	1% de 60s
Back emf constant at 1000 rpm (25°C)*	Ke	V_{rms}		41	
Torque sensitivity	Kt	Nm/A_{rms}		0.652	
Winding resistance (25°C)*	Rb	W		4.29	
Winding inductance*	L	mH		13.2	
Rotor inertia	J	kgm^2x10^{-5}		7.9	
Thermal time constant	Tth	min		20	
Motor mass	M	kg		2.4	
Voltage of the mains	UR1 UR2 UR3	V_{rms}	230	400	480
Rated speed	Nn1 Nn2 Nn3	t/min	4200	7600	7600
Rated torque	Mn1 Mn2 Mn3	Nm	1.41	1.03	1.03
Rated current	In1 In2 In3	A_{rms}	2.24	1.74	1.74
Rated power	Pn1 Pn2 Pn3	W	620	820	820

All data are given in typical values under standard conditions

** Phase to phase*

Voltages and currents are given in rms values



BRUSHLESS MOTORS

EX420UAI

ELECTRONIC DRIVE

DRIVE 4.5/11 Arms 400 Vac

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

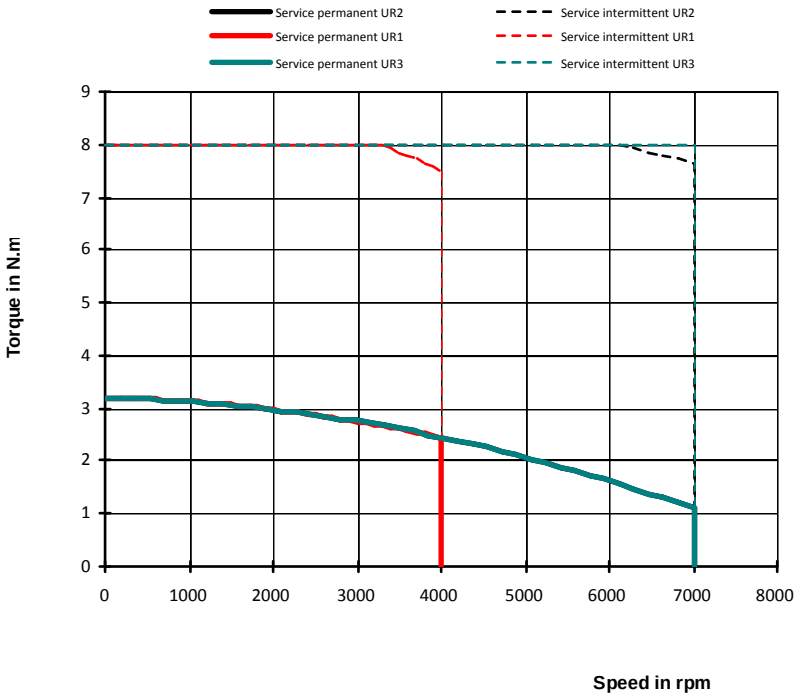
SAVE THESE INSTRUCTIONS

Max voltage of the mains	Ur max	V_{rms}		480	
Max **mechanical** speed	Nmax	t/min		12000	
Torque at low speed	M_o	Nm		3.2	
Permanent current at low speed	I_o	A_{rms}		4.15	
Peak torque	M_p	Nm		8.0	à Nn/2, Ip S3 :
Current for the peak torque	I_p	A_{rms}		10.8	1% de 60s
Back emf constant at 1000 rpm (25°C)*	Ke	V_{rms}		48.3	
Torque sensitivity	Kt	Nm/A_{rms}		0.772	
Winding resistance (25°C)*	Rb	W		1.94	
Winding inductance*	L	mH		9.72	
Rotor inertia	J	kgm^2x10^{-5}		29	
Thermal time constant	Tth	min		12	
Motor mass	M	kg		5.8	
Voltage of the mains	UR1 UR2 UR3	V_{rms}	230	400	480
Rated speed	Nn1 Nn2 Nn3	t/min	4000	7000	7000
Rated torque	Mn1 Mn2 Mn3	Nm	2.45	1.10	1.10
Rated current	In1 In2 In3	A_{rms}	3.25	1.58	1.58
Rated power	Pn1 Pn2 Pn3	W	1030	800	800

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

Création: 17 nov 2008	Edition:	03/nov/2010		EX420UAI	.a

BRUSHLESS MOTORS

EX430UAG

ELECTRONIC DRIVE

DRIVE 5/12 Arms 400 Vac

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

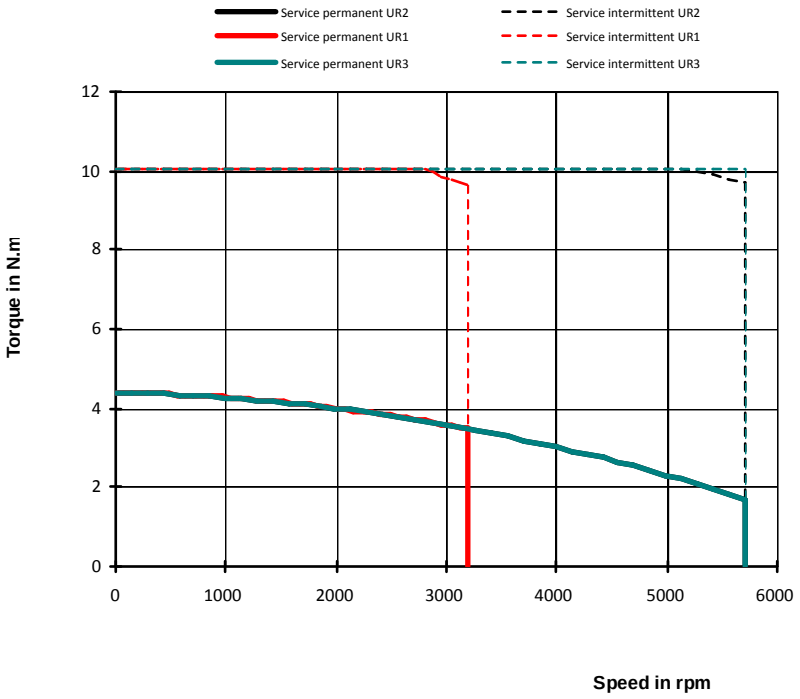
SAVE THESE INSTRUCTIONS

Max voltage of the mains	Ur max	V_{rms}		480	
Max **mechanical** speed	Nmax	t/min		12000	
Torque at low speed	M_o	Nm		4.4	
Permanent current at low speed	I_o	A_{rms}		4.88	
Peak torque	M_p	Nm		11.0	à Nn/2, Ip S3 :
Current for the peak torque	I_p	A_{rms}		12.6	1% de 60s
Back emf constant at 1000 rpm (25°C)*	Ke	V_{rms}		56.4	
Torque sensitivity	Kt	Nm/A_{rms}		0.902	
Winding resistance (25°C)*	Rb	W		1.5	
Winding inductance*	L	mH		8.07	
Rotor inertia	J	kgm^2x10^{-5}		42.6	
Thermal time constant	Tth	min		18	
Motor mass	M	kg		7	
Voltage of the mains	UR1 UR2 UR3	V_{rms}	230	400	480
Rated speed	Nn1 Nn2 Nn3	t/min	3200	5700	5700
Rated torque	Mn1 Mn2 Mn3	Nm	3.48	1.72	1.72
Rated current	In1 In2 In3	A_{rms}	3.94	2.07	2.07
Rated power	Pn1 Pn2 Pn3	W	1170	1020	1020

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

Création: 27 août 2007	Edition:	03/nov/2010		EX430UAG	.b

BRUSHLESS MOTORS

EX620UAM

ELECTRONIC DRIVE

DRIVE 6/17 Arms 400 Vac

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

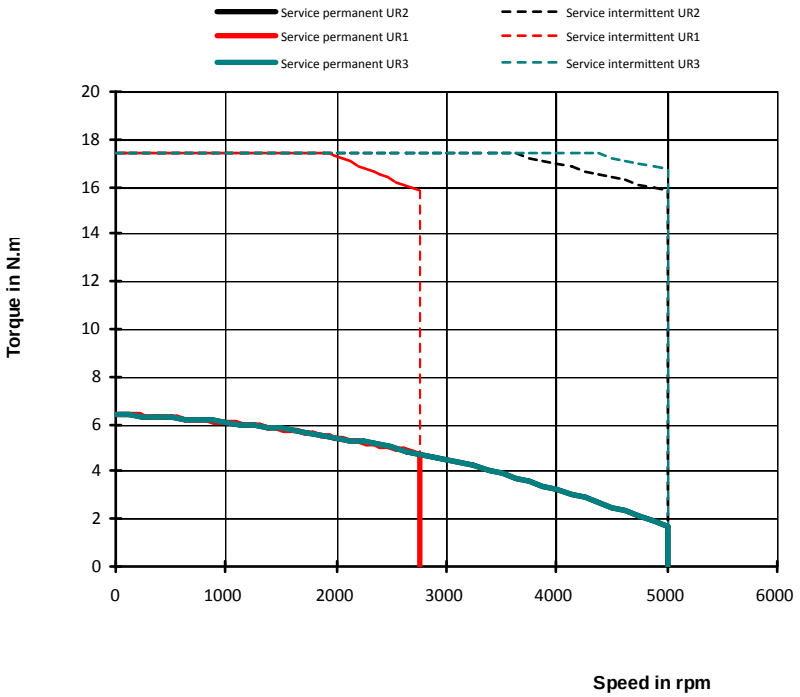
SAVE THESE INSTRUCTIONS

Max voltage of the mains	Ur max	V_{rms}		480	
Max **mechanical** speed	Nmax	t/min		10000	
Torque at low speed	M_o	Nm		6.4	
Permanent current at low speed	I_o	A_{rms}		6.02	
Peak torque	M_p	Nm		17.4	à Nn/2, Ip S3 :
Current for the peak torque	I_p	A_{rms}		16.2	1% de 60s
Back emf constant at 1000 rpm (25°C)*	Ke	V_{rms}		68.8	
Torque sensitivity	Kt	Nm/A_{rms}		1.06	
Winding resistance (25°C)*	Rb	W		1.08	
Winding inductance*	L	mH		9.92	
Rotor inertia	J	kgm^2x10^{-5}		98	
Thermal time constant	Tth	min		27	
Motor mass	M	kg		11.3	
Voltage of the mains	UR1 UR2 UR3	V_{rms}	230	400	480
Rated speed	Nn1 Nn2 Nn3	t/min	2750	5000	5000
Rated torque	Mn1 Mn2 Mn3	Nm	4.76	1.71	1.71
Rated current	In1 In2 In3	A_{rms}	4.67	1.95	1.95
Rated power	Pn1 Pn2 Pn3	W	1370	890	890

All data are given in typical values under standard conditions

** Phase to phase*

Voltages and currents are given in rms values



BRUSHLESS MOTORS

EX630UAK

ELECTRONIC DRIVE

DRIVE 8/20 Arms 400 Vac

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

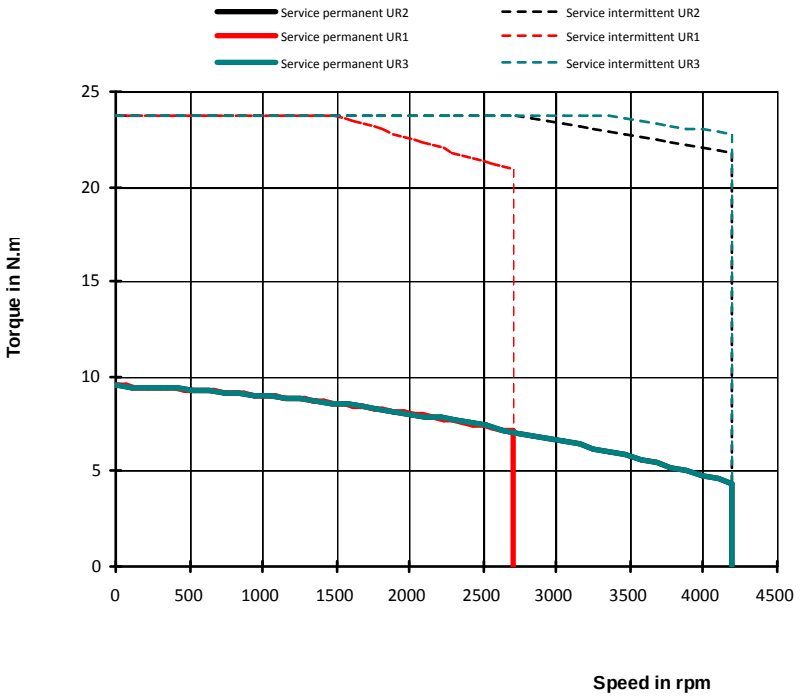
SAVE THESE INSTRUCTIONS

Max voltage of the mains	Ur max	V_{rms}		480	
Max **mechanical** speed	Nmax	t/min		10000	
Torque at low speed	M_o	Nm		9.5	
Permanent current at low speed	I_o	A_{rms}		7.91	
Peak torque	M_p	Nm		23.8	à Nn/2, Ip S3 :
Current for the peak torque	I_p	A_{rms}		19.4	1% de 60s
Back emf constant at 1000 rpm (25°C)*	Ke	V_{rms}		73.6	
Torque sensitivity	Kt	Nm/A_{rms}		1.2	
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		12.5	
Voltage of the mains	UR1 UR2 UR3	V_{rms}	230	400	480
Rated speed	Nn1 Nn2 Nn3	t/min	2700	4200	4200
Rated torque	Mn1 Mn2 Mn3	Nm	7.12	4.38	4.38
Rated current	In1 In2 In3	A_{rms}	6.16	4.02	4.02
Rated power	Pn1 Pn2 Pn3	W	2010	1920	1920

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

Création: 27 août 2207	Edition:	03/nov/2010		EX630UAK	.e

BRUSHLESS MOTORS

EX820UAQ

ELECTRONIC DRIVE

DRIVE 10/23 Arms 400 Vac

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

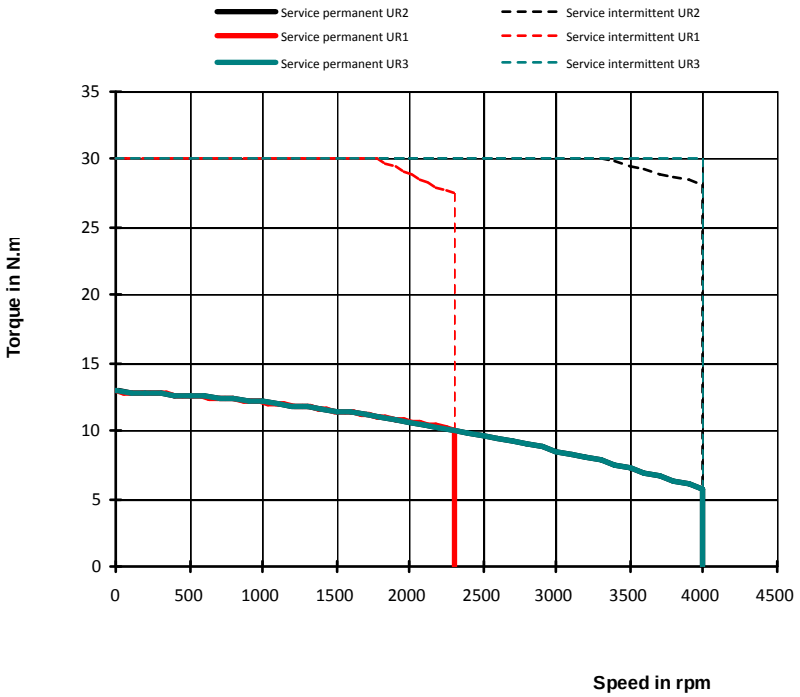
SAVE THESE INSTRUCTIONS

Max voltage of the mains	Ur max	V_{rms}		480	
Max **mechanical** speed	Nmax	t/min		8000	
Torque at low speed	M_o	Nm		12.9	
Permanent current at low speed	I_o	A_{rms}		9.1	
Peak torque	M_p	Nm		30.0	à Nn/2, Ip S3 :
Current for the peak torque	I_p	A_{rms}		22.8	1% de 60s
Back emf constant at 1000 rpm (25°C)*	Ke	V_{rms}		87.2	
Torque sensitivity	Kt	Nm/A_{rms}		1.42	
Winding resistance (25°C)*	Rb	W		0.889	
Winding inductance*	L	mH		7.53	
Rotor inertia	J	kgm^2x10^{-5}		320	
Thermal time constant	Tth	min		34	
Motor mass	M	kg		24	
Voltage of the mains	UR1 UR2 UR3	V_{rms}	230	400	480
Rated speed	Nn1 Nn2 Nn3	t/min	2300	4000	4000
Rated torque	Mn1 Mn2 Mn3	Nm	10.10	5.77	5.77
Rated current	In1 In2 In3	A_{rms}	7.21	4.27	4.27
Rated power	Pn1 Pn2 Pn3	W	2430	2410	2410

All data are given in typical values under standard conditions

** Phase to phase*

Voltages and currents are given in rms values



BRUSHLESS MOTORS

EX840UAL

ELECTRONIC DRIVE

DRIVE 13/35 Arms 400 Vac

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

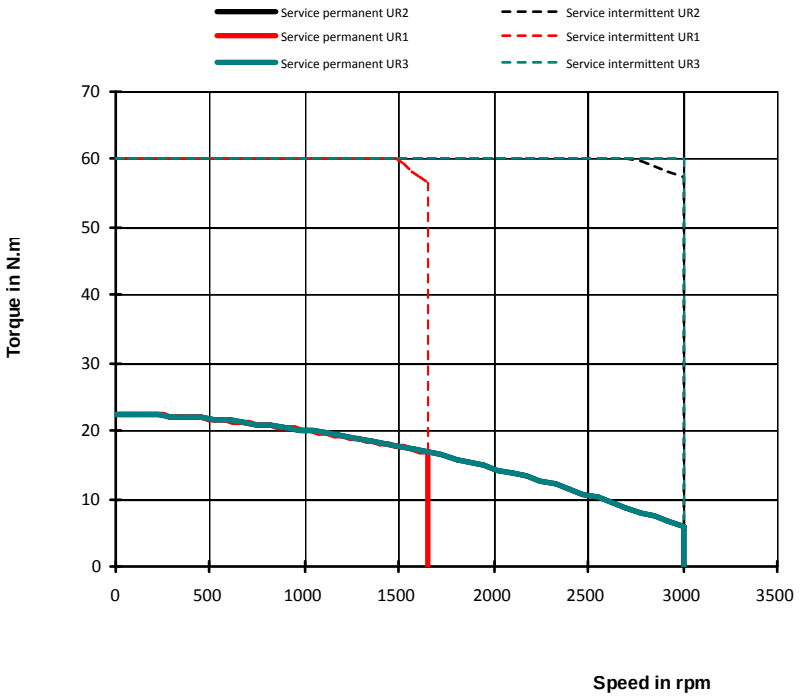
SAVE THESE INSTRUCTIONS

Max voltage of the mains	Ur max	V_{rms}		480	
Max **mechanical** speed	Nmax	t/min		8000	
Torque at low speed	M_o	Nm		22.6	
Permanent current at low speed	I_o	A_{rms}		12	
Peak torque	M_p	Nm		60.0	à Nn/2, Ip S3 :
Current for the peak torque	I_p	A_{rms}		34.6	1% de 60s
Back emf constant at 1000 rpm (25°C)*	Ke	V_{rms}		118	
Torque sensitivity	Kt	Nm/A_{rms}		1.89	
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		32	
Voltage of the mains	UR1 UR2 UR3	V_{rms}	230	400	480
Rated speed	Nn1 Nn2 Nn3	t/min	1650	3000	3000
Rated torque	Mn1 Mn2 Mn3	Nm	16.80	5.84	5.84
Rated current	In1 In2 In3	A_{rms}	9.00	3.39	3.39
Rated power	Pn1 Pn2 Pn3	W	2900	1830	1830

All data are given in typical values under standard conditions

** Phase to phase*

Voltages and currents are given in rms values



BRUSHLESS MOTORS

EX860UAJ

ELECTRONIC DRIVE

DRIVE 15/45 Arms 400 Vac

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

SAVE THESE INSTRUCTIONS

Max voltage of the mains	Ur max	V_{rms}		480	
Max **mechanical** speed	Nmax	t/min		8000	
Torque at low speed	M_o	Nm		31.4	
Permanent current at low speed	I_o	A_{rms}		13.9	
Peak torque	M_p	Nm		90.0	à Nn/2, Ip S3 :
Current for the peak torque	I_p	A_{rms}		43.5	1% de 60s
Back emf constant at 1000 rpm (25°C)*	Ke	V_{rms}		140	
Torque sensitivity	Kt	Nm/A_{rms}		2.26	
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		40	
Voltage of the mains	UR1 UR2 UR3	V_{rms}	230	400	480
Rated speed	Nn1 Nn2 Nn3	t/min	1500	2500	2500
Rated torque	Mn1 Mn2 Mn3	Nm	22.30	8.31	8.31
Rated current	In1 In2 In3	A_{rms}	10.01	4.01	4.01
Rated power	Pn1 Pn2 Pn3	W	3500	2180	2180

All data are given in typical values under standard conditions

** Phase to phase*

Voltages and currents are given in rms values