

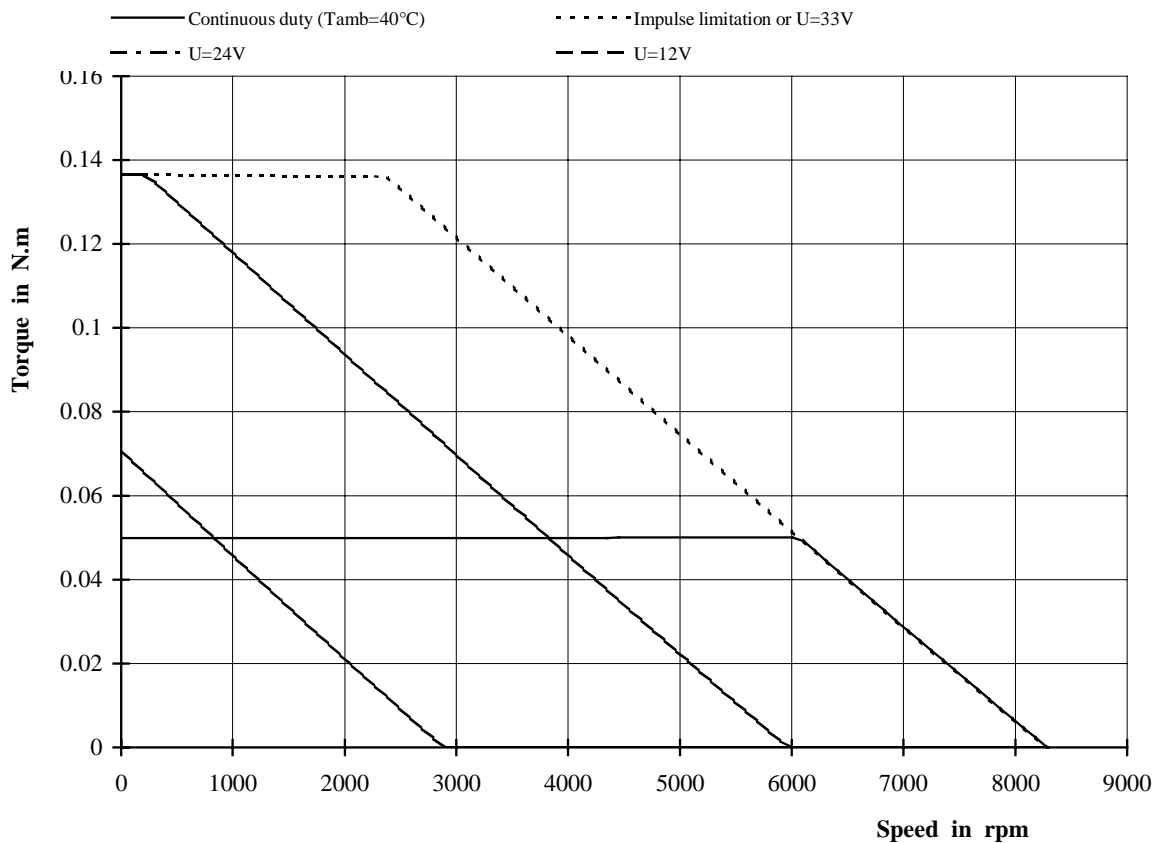
DC-SERVOMOTOR  
**RS110M**

# PARVEX

8 avenue du Lac  
 BP249  
 F-21007 DIJON Cedex

Low speed torque	<b>0.05</b>	<i>N.m</i>	<i>Mo</i>
Permanent current at low speed	<b>1.5</b>	<i>A</i>	<i>Io</i>
Supply voltage with loaded motor	<b>20.7</b>	<i>V</i>	<i>U</i>
Definition speed	<b>3000</b>	<i>rpm</i>	<i>N</i>
Maximum supply voltage	<b>33</b>	<i>V</i>	<i>Umax</i>
Maximum speed	<b>8300</b>	<i>rpm</i>	<i>Nmax</i>
Peak current	<b>4</b>	<i>A</i>	<i>Imax</i>
Back emf constant at 1000 rpm (25°C)*	<b>3.85</b>	<i>V</i>	<i>Ke</i>
Torque constant	<b>0.037</b>	<i>N.m/A</i>	<i>Kt</i>
Static friction torque	<b>0.5</b>	<i>N.cm</i>	<i>Tf</i>
Viscous damping for 1000 rpm	<b>0.015</b>	<i>N.cm</i>	<i>Kd</i>
Winding resistance(25°C)	<b>4.5</b>	$\Omega$	<i>Rb</i>
Winding inductance	<b>1.6</b>	<i>mH</i>	<i>L</i>
Rotor inertia	<b>0.0000024</b>	<i>kg.m<sup>2</sup></i>	<i>J</i>
Thermal time constant	<b>4.2</b>	<i>min</i>	<i>Tth</i>
Motor mass	<b>0.29</b>	<i>kg</i>	<i>M</i>

All data are given in typical values under standard conditions



FICHER-001

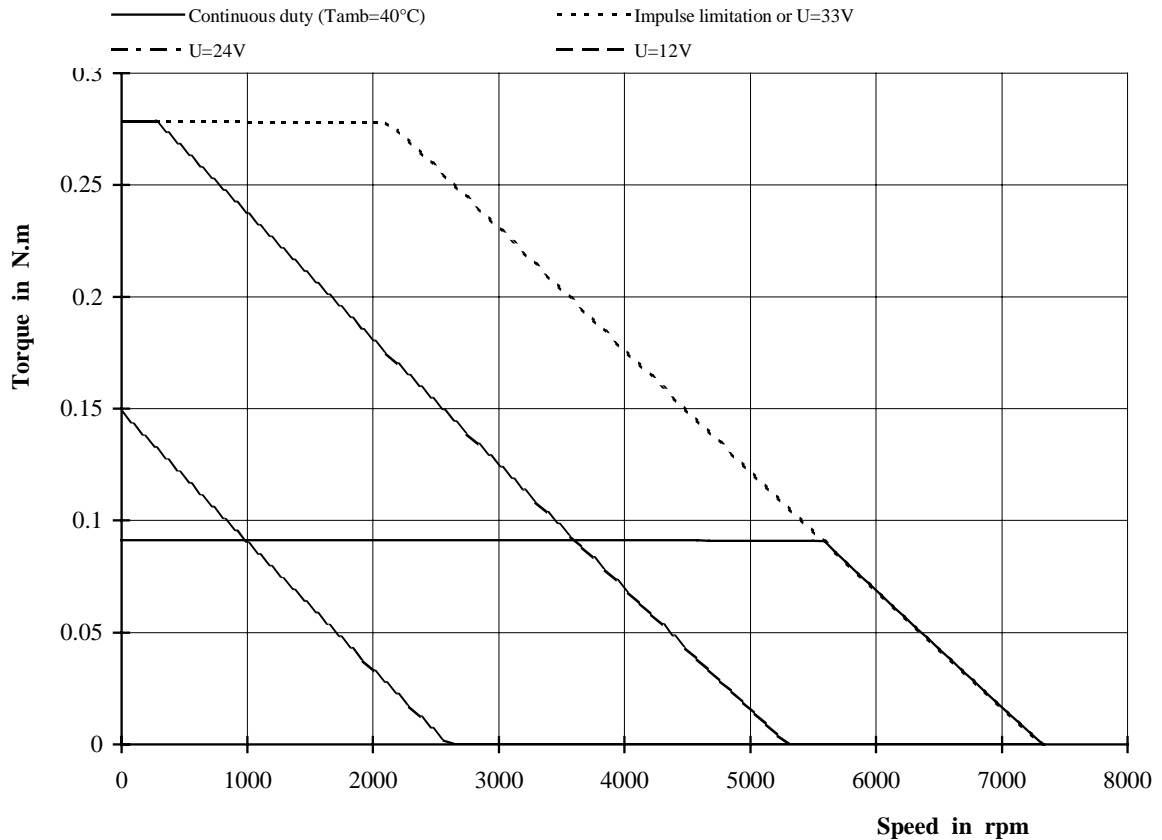
DC-SERVOMOTOR  
RS120G

# PARVEX

8 avenue du Lac  
BP249  
F-21007 DIJON Cedex

Low speed torque	<b>0.092</b>	N.m	<i>Mo</i>
Permanent current at low speed	<b>2.3</b>	A	<i>Io</i>
Supply voltage with loaded motor	<b>21</b>	V	<i>U</i>
Definition speed	<b>3000</b>	rpm	<i>N</i>
Maximum supply voltage	<b>33</b>	V	<i>Umax</i>
Maximum speed	<b>7300</b>	rpm	<i>Nmax</i>
Peak current	<b>7</b>	A	<i>Imax</i>
Back emf constant at 1000 rpm (25°C)*	<b>4.4</b>	V	<i>Ke</i>
Torque constant	<b>0.042</b>	N.m/A	<i>Kt</i>
Static friction torque	<b>0.6</b>	N.cm	<i>Tf</i>
Viscous damping for 1000 rpm	<b>0.024</b>	N.cm	<i>Kd</i>
Winding resistance(25°C)	<b>2.3</b>	$\Omega$	<i>Rb</i>
Winding inductance	<b>1.1</b>	mH	<i>L</i>
Rotor inertia	<b>0.0000041</b>	kg.m <sup>2</sup>	<i>J</i>
Thermal time constant	<b>5.2</b>	min	<i>Tth</i>
Motor mass	<b>0.39</b>	kg	<i>M</i>

All data are given in typical values under standard conditions



FICHER-001

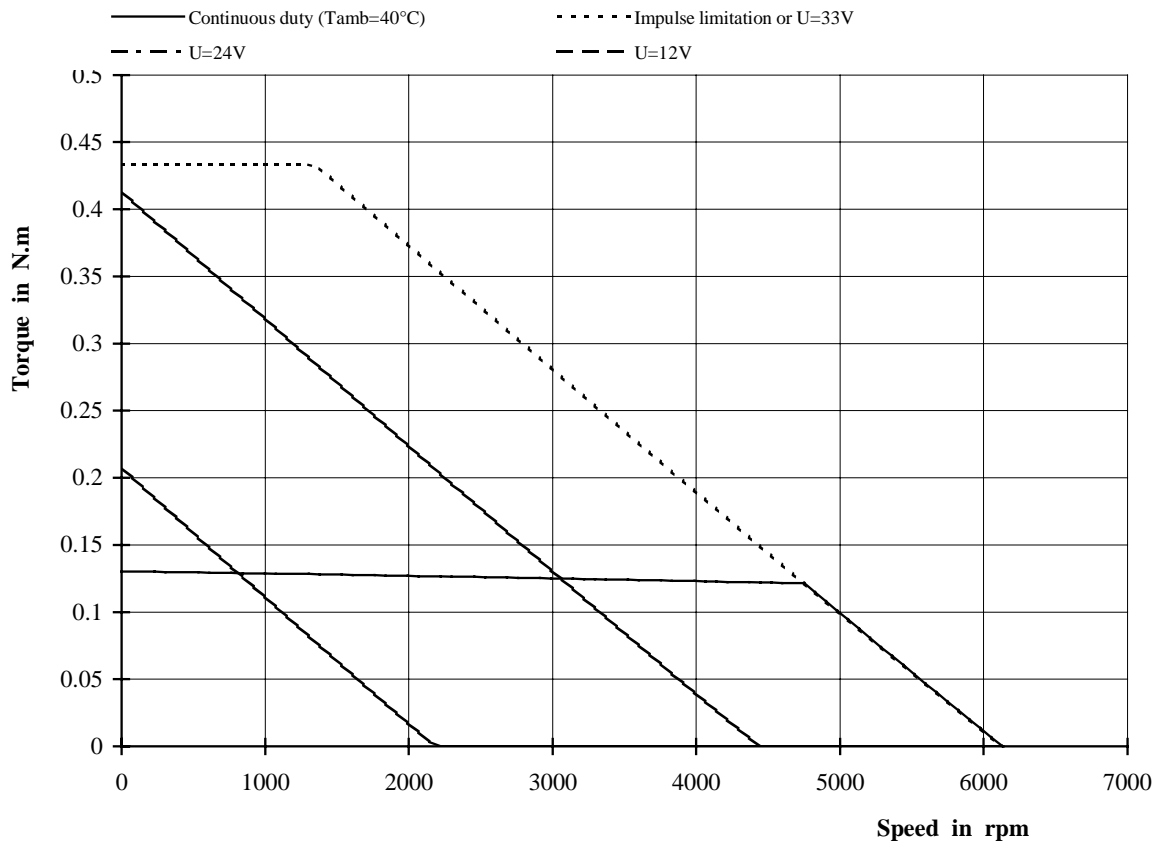
DC-S ERVOMOTOR  
RS130E

# PARVEX

8 avenue du Lac  
BP249  
F-21007 DIJON Cedex

Low speed torque	0.13	N.m	Mo
Permanent current at low speed	2.7	A	Io
Supply voltage with loaded motor	24	V	U
Definition speed	3000	rpm	N
Maximum supply voltage	33	V	Umax
Maximum speed	6100	rpm	Nmax
Peak current	9	A	Imax
Back emf constant at 1000 rpm (25°C)*	5.3	V	Ke
Torque constant	0.051	N.m/A	Kt
Static friction torque	0.7	N.cm	Tf
Viscous damping for 1000 rpm	0.033	N.cm	Kd
Winding resistance(25°C)	1.93	Ω	Rb
Winding inductance	1	mH	L
Rotor inertia	0.0000058	kg.m <sup>2</sup>	J
Thermal time constant	6	min	Tth
Motor mass	0.49	kg	M

All data are given in typical values under standard conditions



FICHER-001

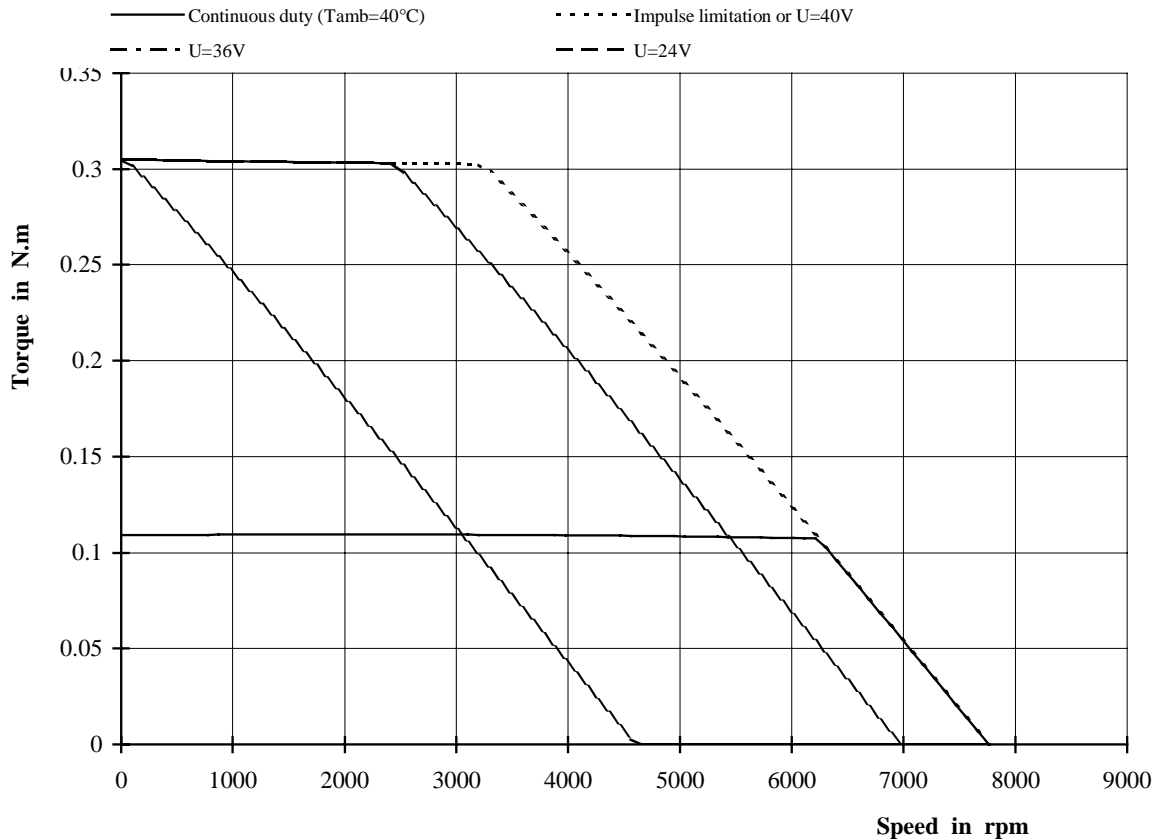
DC-SERVOMOTOR  
RS210L

# PARVEX

8 avenue du Lac  
BP249  
F-21007 DIJON Cedex

Low speed torque	0.11	N.m	$M_0$
Permanent current at low speed	2.5	A	$I_0$
Supply voltage with loaded motor	24	V	$U$
Definition speed	3000	rpm	$N$
Maximum supply voltage	40	V	$U_{max}$
Maximum speed	7800	rpm	$N_{max}$
Peak current	7	A	$I_{max}$
Back emf constant at 1000 rpm (25°C)*	5	V	$K_e$
Torque constant	0.048	N.m/A	$K_t$
Static friction torque	1.05	N.cm	$T_f$
Viscous damping for 1000 rpm	0.08	N.cm	$K_d$
Winding resistance(25°C)	2.33	$\Omega$	$R_b$
Winding inductance	1.1	mH	$L$
Rotor inertia	0.000013	kg.m <sup>2</sup>	$J$
Thermal time constant	5	min	$T_{th}$
Motor mass	0.53	kg	$M$

All data are given in typical values under standard conditions



FICHER-001

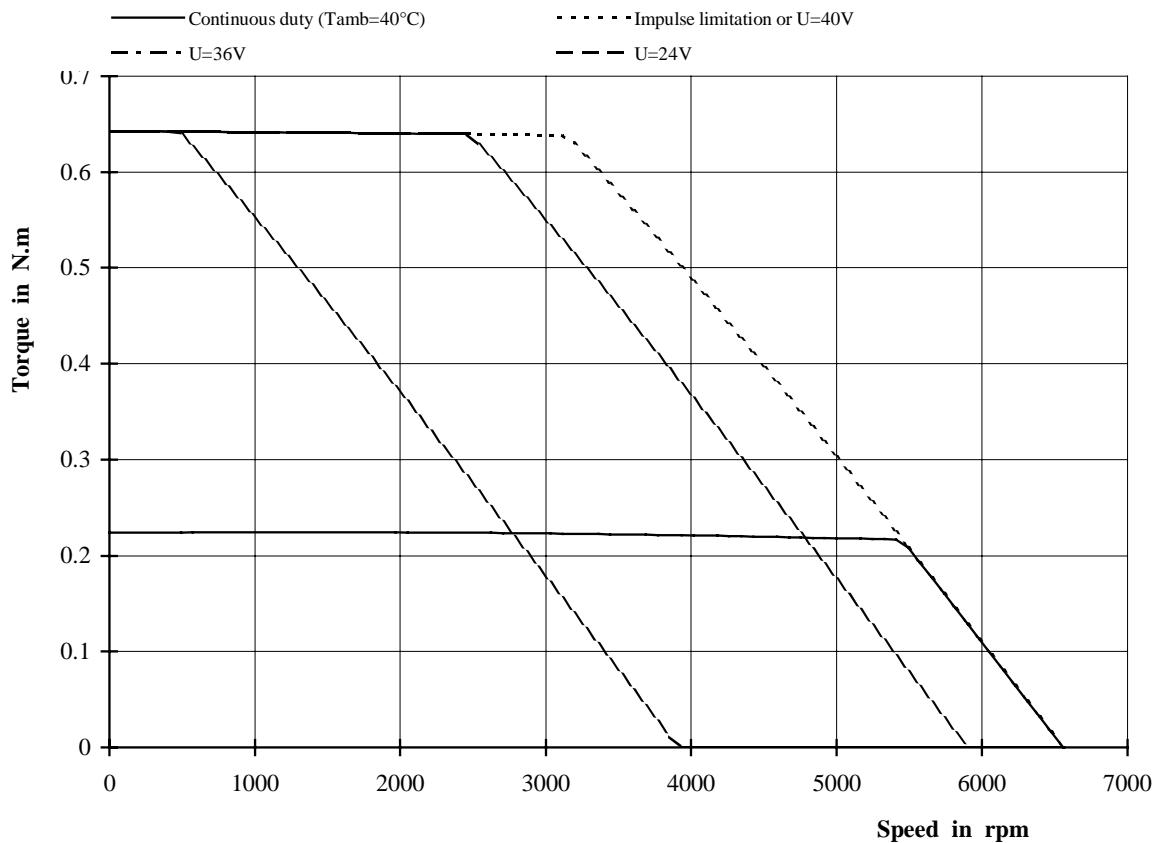
DC-S ERVOMOTOR  
RS220F

# PARVEX

8 avenue du Lac  
BP249  
F-21007 DIJON Cedex

Low speed torque	0.225	N.m	$M_0$
Permanent current at low speed	4.1	A	$I_0$
Supply voltage with loaded motor	25.4	V	$U$
Definition speed	3000	rpm	$N$
Maximum supply voltage	40	V	$U_{max}$
Maximum speed	6600	rpm	$N_{max}$
Peak current	12	A	$I_{max}$
Back emf constant at 1000 rpm (25°C)*	6	V	$K_e$
Torque constant	0.057	N.m/A	$K_t$
Static friction torque	1.2	N.cm	$T_f$
Viscous damping for 1000 rpm	0.14	N.cm	$K_d$
Winding resistance(25°C)	1.12	$\Omega$	$R_b$
Winding inductance	0.65	mH	$L$
Rotor inertia	0.0000195	kg.m <sup>2</sup>	$J$
Thermal time constant	6.9	min	$T_{th}$
Motor mass	0.7	kg	$M$

All data are given in typical values under standard conditions



FICHER-001

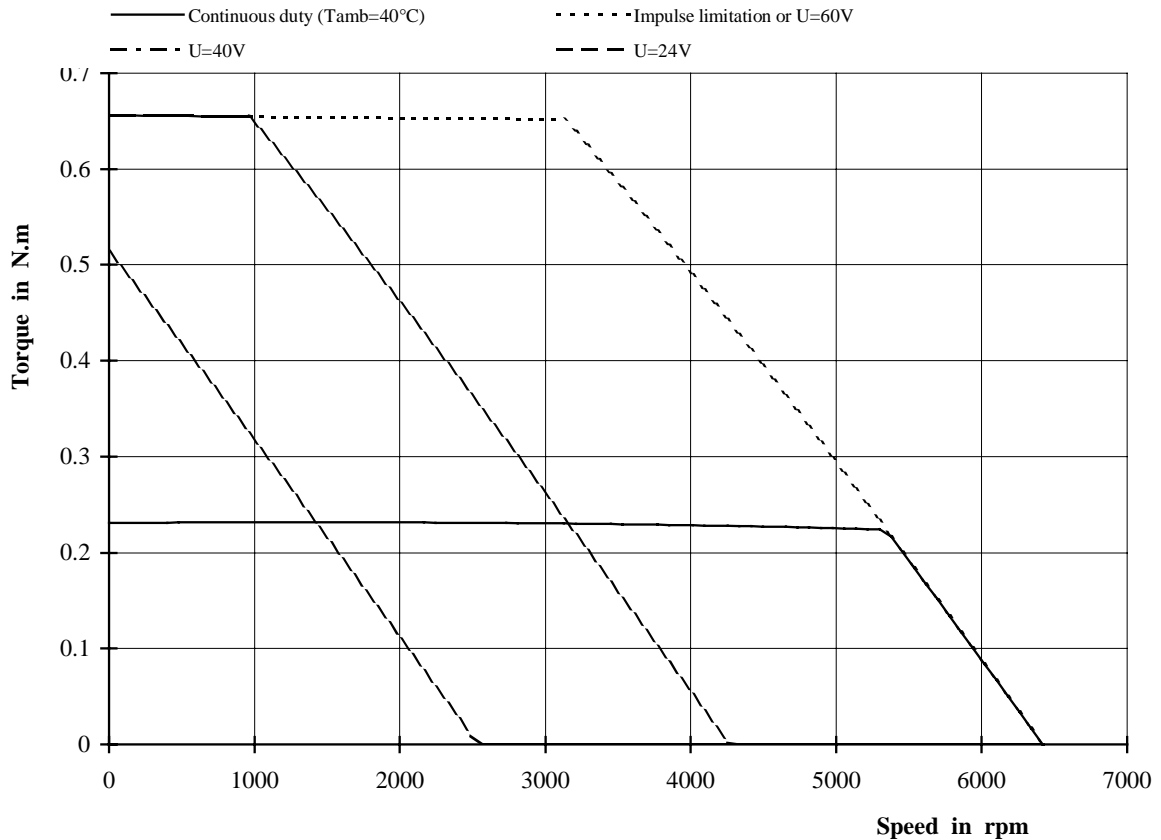
DC-SERVOMOTOR  
RS220K

# PARVEX

8 avenue du Lac  
BP249  
F-21007 DIJON Cedex

Low speed torque	0.232	N.m	$M_o$
Permanent current at low speed	2.8	A	$I_o$
Supply voltage with loaded motor	39	V	$U$
Definition speed	3000	rpm	$N$
Maximum supply voltage	60	V	$U_{max}$
Maximum speed	6400	rpm	$N_{max}$
Peak current	8	A	$I_{max}$
Back emf constant at 1000 rpm (25°C)*	9.2	V	$K_e$
Torque constant	0.088	N.m/A	$K_t$
Static friction torque	1.2	N.cm	$T_f$
Viscous damping for 1000 rpm	0.14	N.cm	$K_d$
Winding resistance(25°C)	2.7	$\Omega$	$R_b$
Winding inductance	1.53	mH	$L$
Rotor inertia	0.000195	kg.m <sup>2</sup>	$J$
Thermal time constant	6.9	min	$T_{th}$
Motor mass	0.7	kg	$M$

All data are given in typical values under standard conditions



FICHER-001

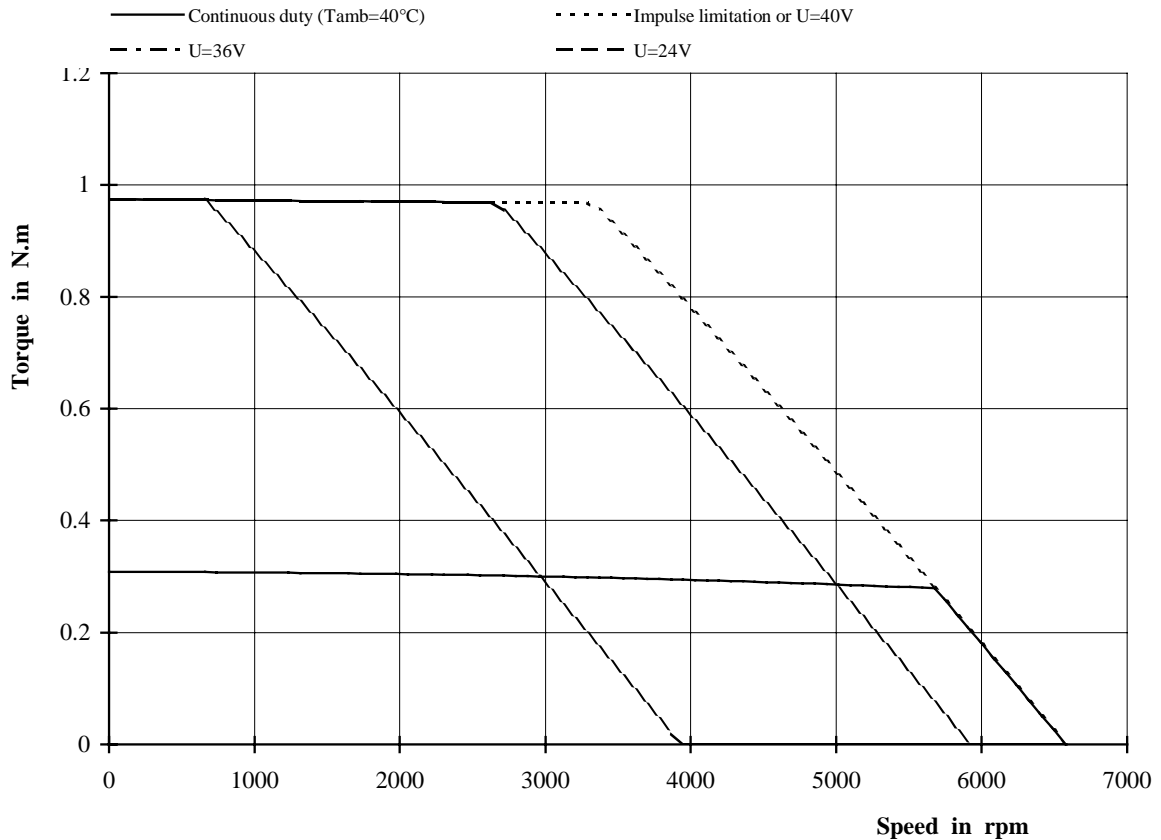
DC-SERVOMOTOR  
RS230C

# PARVEX

8 avenue du Lac  
BP249  
F-21007 DIJON Cedex

Low speed torque	0.31	N.m	$M_o$
Permanent current at low speed	5.6	A	$I_o$
Supply voltage with loaded motor	24	V	$U$
Definition speed	3000	rpm	$N$
Maximum supply voltage	40	V	$U_{max}$
Maximum speed	6600	rpm	$N_{max}$
Peak current	18	A	$I_{max}$
Back emf constant at 1000 rpm (25°C)*	6	V	$K_e$
Torque constant	0.057	N.m/A	$K_t$
Static friction torque	1.35	N.cm	$T_f$
Viscous damping for 1000 rpm	0.2	N.cm	$K_d$
Winding resistance(25°C)	0.67	$\Omega$	$R_b$
Winding inductance	0.42	mH	$L$
Rotor inertia	0.000026	kg.m <sup>2</sup>	$J$
Thermal time constant	7.5	min	$T_{th}$
Motor mass	0.87	kg	$M$

All data are given in typical values under standard conditions



FICHER-001

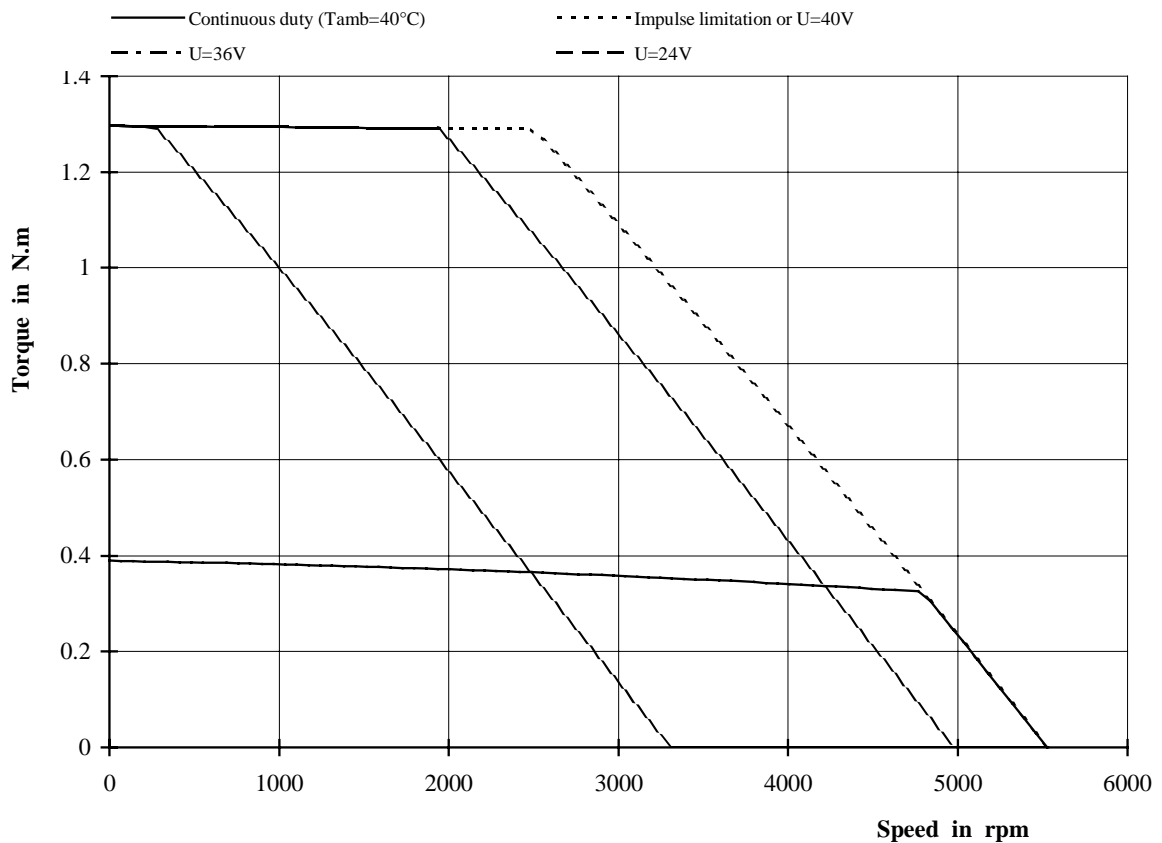
DC-SERVOMOTOR  
RS240B

# PARVEX

8 avenue du Lac  
BP249  
F-21007 DIJON Cedex

Low speed torque	<b>0.39</b>	N.m	<i>M<sub>0</sub></i>
Permanent current at low speed	<b>6</b>	A	<i>I<sub>0</sub></i>
Supply voltage with loaded motor	<b>28</b>	V	<i>U</i>
Definition speed	<b>3000</b>	rpm	<i>N</i>
Maximum supply voltage	<b>40</b>	V	<i>U<sub>max</sub></i>
Maximum speed	<b>5500</b>	rpm	<i>N<sub>max</sub></i>
Peak current	<b>20</b>	A	<i>I<sub>max</sub></i>
Back emf constant at 1000 rpm (25°C)*	<b>7.2</b>	V	<i>K<sub>e</sub></i>
Torque constant	<b>0.068</b>	N.m/A	<i>K<sub>t</sub></i>
Static friction torque	<b>1.5</b>	N.cm	<i>T<sub>f</sub></i>
Viscous damping for 1000 rpm	<b>0.26</b>	N.cm	<i>K<sub>d</sub></i>
Winding resistance(25°C)	<b>0.68</b>	Ω	<i>R<sub>b</sub></i>
Winding inductance	<b>0.45</b>	mH	<i>L</i>
Rotor inertia	<b>0.0000325</b>	kg.m <sup>2</sup>	<i>J</i>
Thermal time constant	<b>7.5</b>	min	<i>T<sub>th</sub></i>
Motor mass	<b>1.04</b>	kg	<i>M</i>

All data are given in typical values under standard conditions



FICHER-001



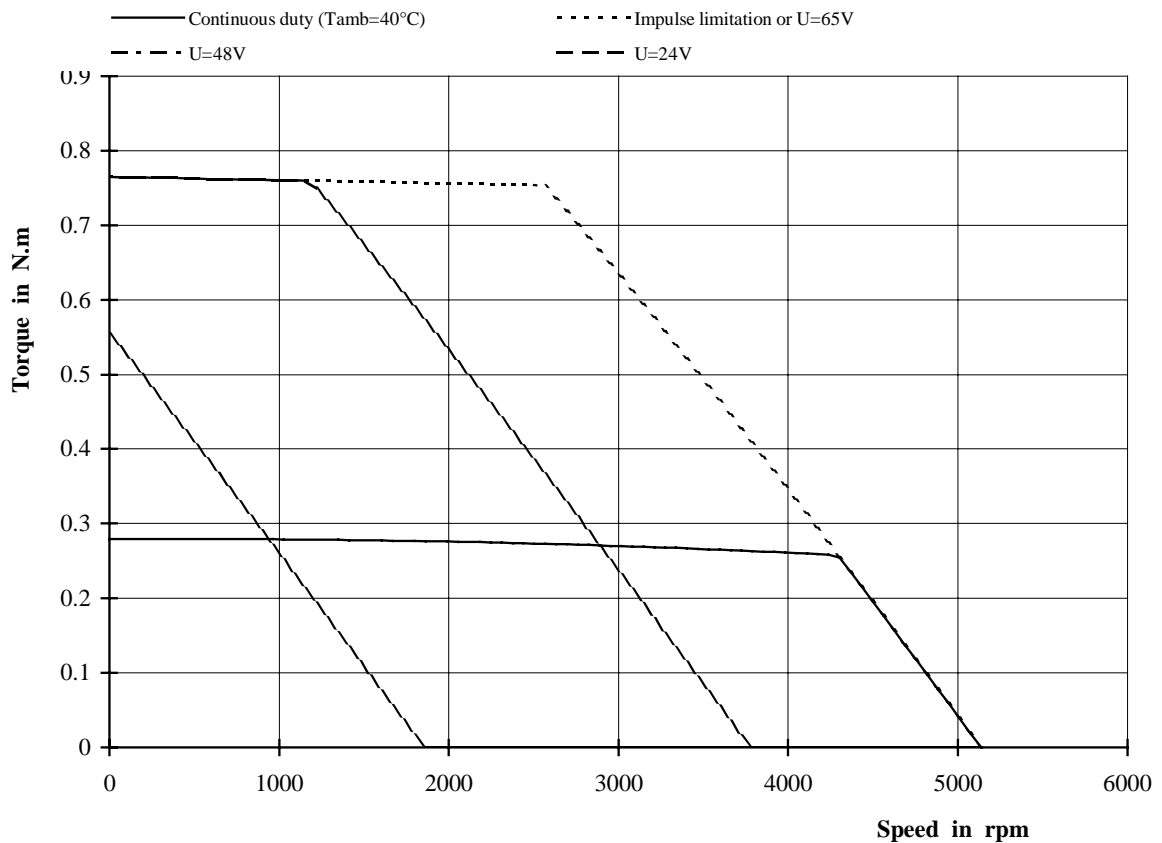
DC-SERVOMOTOR  
RS310N

# PARVEX

8 avenue du Lac  
BP249  
F-21007 DIJON Cedex

Low speed torque	0.28	N.m	$M_o$
Permanent current at low speed	2.6	A	$I_o$
Supply voltage with loaded motor	50	V	$U$
Definition speed	3000	rpm	$N$
Maximum supply voltage	65	V	$U_{max}$
Maximum speed	5100	rpm	$N_{max}$
Peak current	7	A	$I_{max}$
Back emf constant at 1000 rpm (25°C)*	12.3	V	$K_e$
Torque constant	0.117	N.m/A	$K_t$
Static friction torque	2.2	N.cm	$T_f$
Viscous damping for 1000 rpm	0.43	N.cm	$K_d$
Winding resistance(25°C)	3.64	$\Omega$	$R_b$
Winding inductance	4.4	mH	$L$
Rotor inertia	0.000054	kg.m <sup>2</sup>	$J$
Thermal time constant	9	min	$T_{th}$
Motor mass	0.96	kg	$M$

All data are given in typical values under standard conditions



FICHER-001

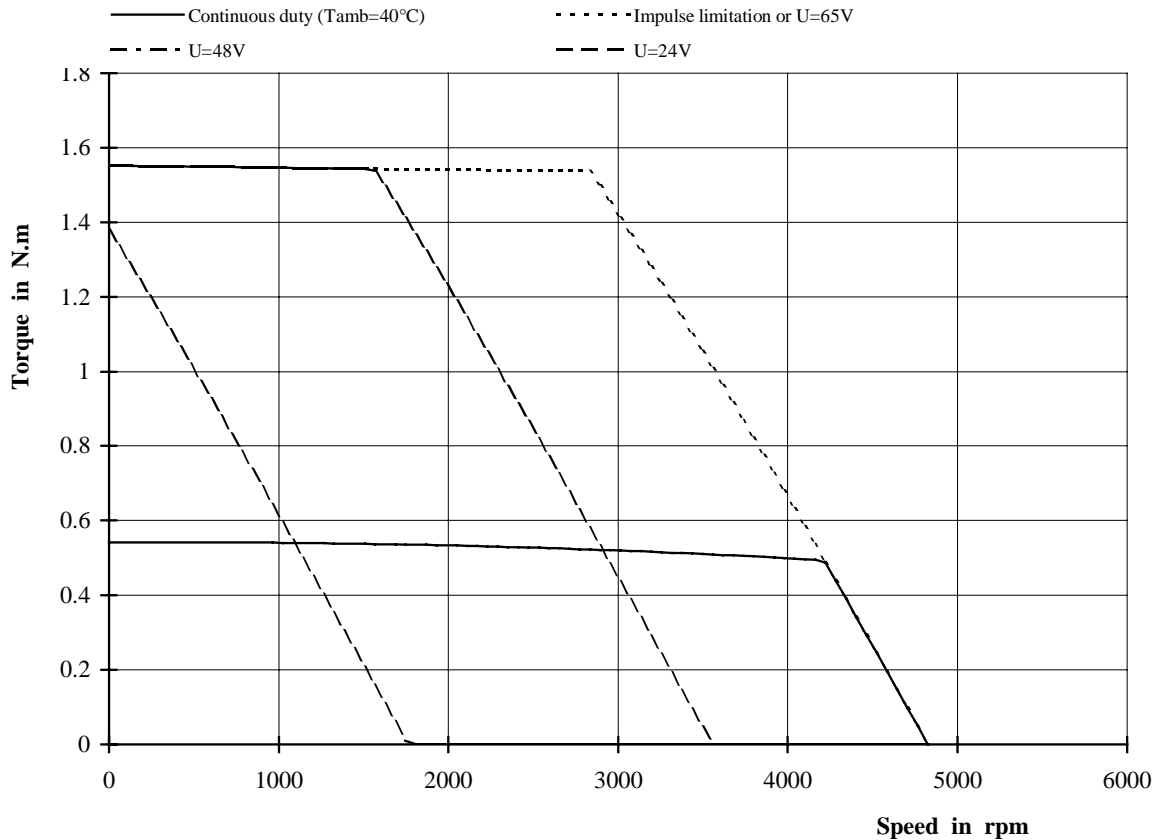
DC-SERVOMOTOR  
RS320H

# PARVEX

8 avenue du Lac  
BP249  
F-21007 DIJON Cedex

Low speed torque	<b>0.54</b>	N.m	<i>M<sub>0</sub></i>
Permanent current at low speed	<b>4.5</b>	A	<i>I<sub>0</sub></i>
Supply voltage with loaded motor	<b>49</b>	V	<i>U</i>
Definition speed	<b>3000</b>	rpm	<i>N</i>
Maximum supply voltage	<b>65</b>	V	<i>U<sub>max</sub></i>
Maximum speed	<b>4800</b>	rpm	<i>N<sub>max</sub></i>
Peak current	<b>13</b>	A	<i>I<sub>max</sub></i>
Back emf constant at 1000 rpm (25°C)*	<b>13.3</b>	V	<i>K<sub>e</sub></i>
Torque constant	<b>0.127</b>	N.m/A	<i>K<sub>t</sub></i>
Static friction torque	<b>2.4</b>	N.cm	<i>T<sub>f</sub></i>
Viscous damping for 1000 rpm	<b>0.53</b>	N.cm	<i>K<sub>d</sub></i>
Winding resistance(25°C)	<b>1.52</b>	Ω	<i>R<sub>b</sub></i>
Winding inductance	<b>2.2</b>	mH	<i>L</i>
Rotor inertia	<b>0.000083</b>	kg.m <sup>2</sup>	<i>J</i>
Thermal time constant	<b>7</b>	min	<i>T<sub>th</sub></i>
Motor mass	<b>1.34</b>	kg	<i>M</i>

All data are given in typical values under standard conditions



FICHER-001

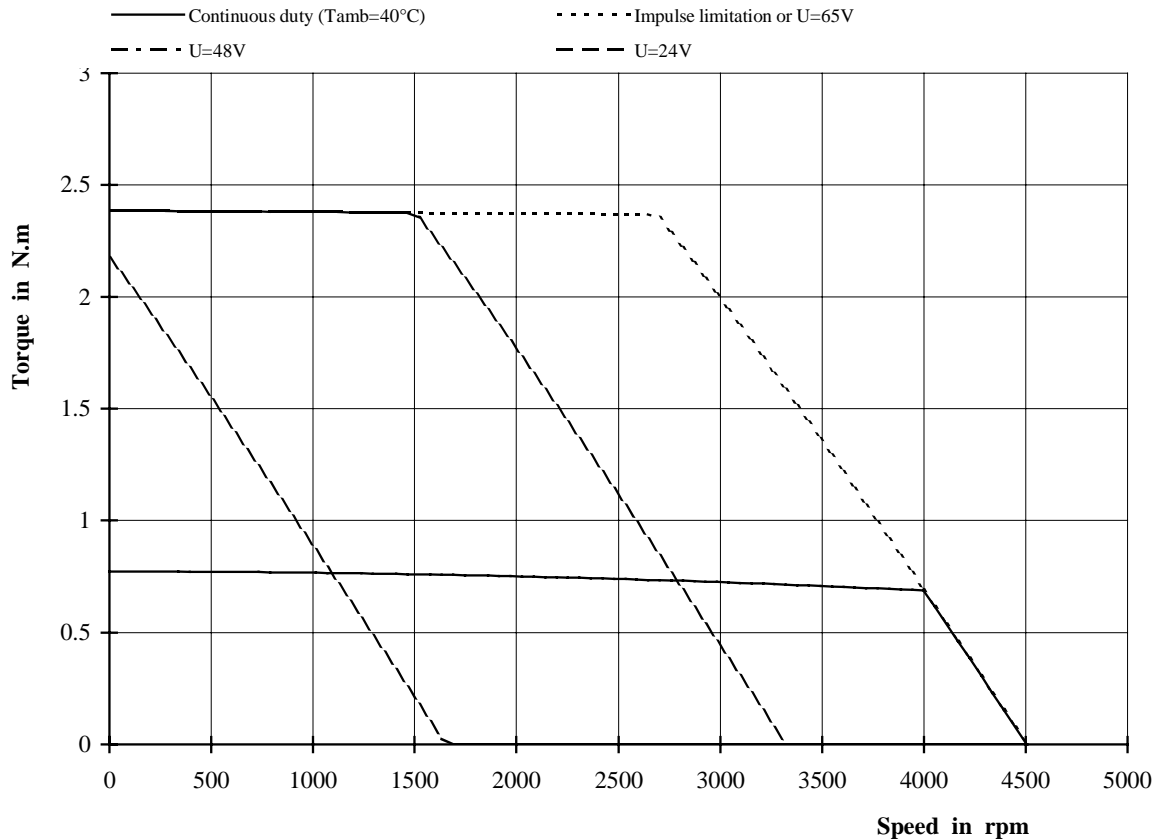
DC-SERVOMOTOR  
RS330E

# PARVEX

8 avenue du Lac  
BP249  
F-21007 DIJON Cedex

Low speed torque	0.78	N.m	$M_0$
Permanent current at low speed	5.9	A	$I_0$
Supply voltage with loaded motor	51	V	$U$
Definition speed	3000	rpm	$N$
Maximum supply voltage	65	V	$U_{max}$
Maximum speed	4500	rpm	$N_{max}$
Peak current	18.5	A	$I_{max}$
Back emf constant at 1000 rpm (25°C)*	14.3	V	$K_e$
Torque constant	0.137	N.m/A	$K_t$
Static friction torque	2.6	N.cm	$T_f$
Viscous damping for 1000 rpm	0.63	N.cm	$K_d$
Winding resistance(25°C)	1.01	$\Omega$	$R_b$
Winding inductance	1.65	mH	$L$
Rotor inertia	0.00011	kg.m <sup>2</sup>	$J$
Thermal time constant	6.2	min	$T_{th}$
Motor mass	1.72	kg	$M$

All data are given in typical values under standard conditions



FICHER-001

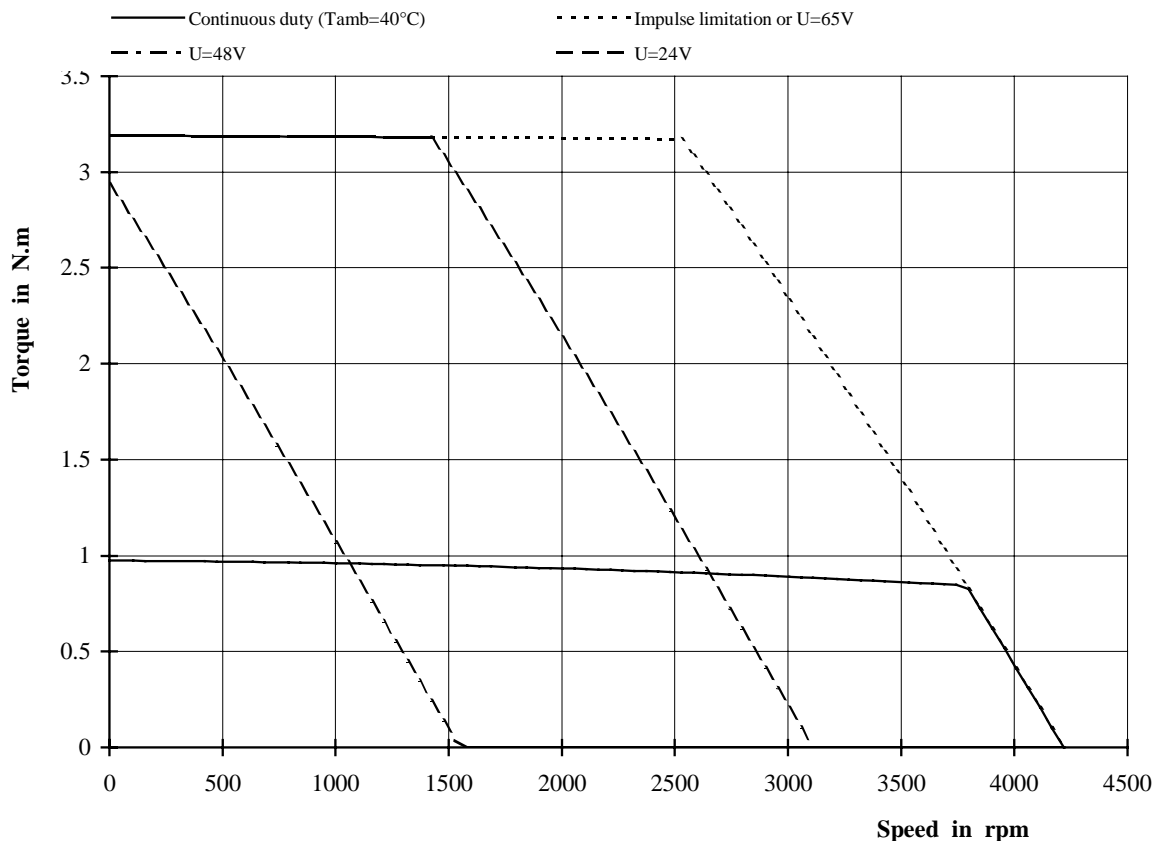
DC-SERVOMOTOR  
RS340C

# PARVEX

8 avenue du Lac  
BP249  
F-21007 DIJON Cedex

Low speed torque	<b>0.98</b>	N.m	<i>M<sub>0</sub></i>
Permanent current at low speed	<b>6.9</b>	A	<i>I<sub>0</sub></i>
Supply voltage with loaded motor	<b>53</b>	V	<i>U</i>
Definition speed	<b>3000</b>	rpm	<i>N</i>
Maximum supply voltage	<b>65</b>	V	<i>U<sub>max</sub></i>
Maximum speed	<b>4200</b>	rpm	<i>N<sub>max</sub></i>
Peak current	<b>23</b>	A	<i>I<sub>max</sub></i>
Back emf constant at 1000 rpm (25°C)*	<b>15.3</b>	V	<i>K<sub>e</sub></i>
Torque constant	<b>0.146</b>	N.m/A	<i>K<sub>t</sub></i>
Static friction torque	<b>2.8</b>	N.cm	<i>T<sub>f</sub></i>
Viscous damping for 1000 rpm	<b>0.73</b>	N.cm	<i>K<sub>d</sub></i>
Winding resistance(25°C)	<b>0.8</b>	Ω	<i>R<sub>b</sub></i>
Winding inductance	<b>1.4</b>	mH	<i>L</i>
Rotor inertia	<b>0.00014</b>	kg.m <sup>2</sup>	<i>J</i>
Thermal time constant	<b>6</b>	min	<i>T<sub>th</sub></i>
Motor mass	<b>2.1</b>	kg	<i>M</i>

All data are given in typical values under standard conditions



FICHER-001

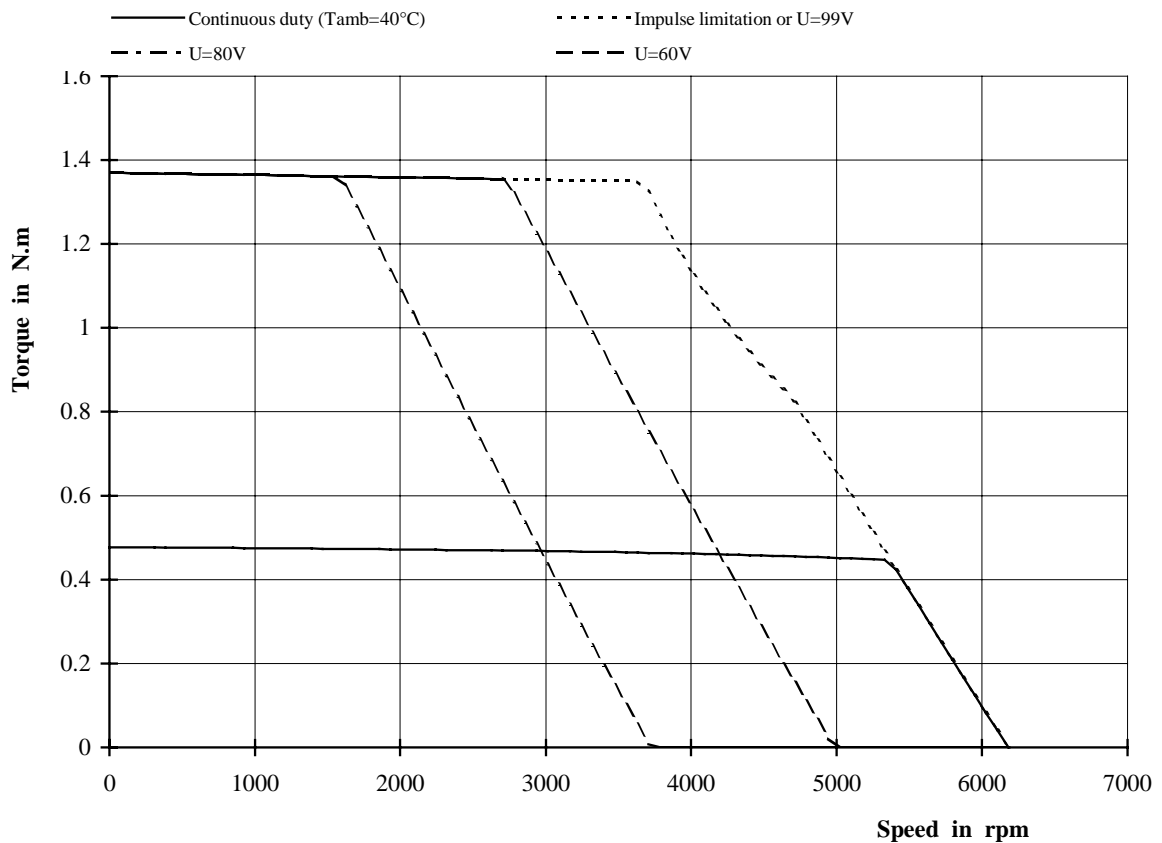
DC-SERVOMOTOR  
RS410R

# PARVEX

8 avenue du Lac  
BP249  
F-21007 DIJON Cedex

Low speed torque	0.48	N.m	$M_o$
Permanent current at low speed	3.6	A	$I_o$
Supply voltage with loaded motor	60	V	$U$
Definition speed	3000	rpm	$N$
Maximum supply voltage	99	V	$U_{max}$
Maximum speed	6200	rpm	$N_{max}$
Peak current	10	A	$I_{max}$
Back emf constant at 1000 rpm (25°C)*	15.6	V	$K_e$
Torque constant	0.15	N.m/A	$K_t$
Static friction torque	5.2	N.cm	$T_f$
Viscous damping for 1000 rpm	0.56	N.cm	$K_d$
Winding resistance(25°C)	2.47	$\Omega$	$R_b$
Winding inductance	4.2	mH	$L$
Rotor inertia	0.000137	kg.m <sup>2</sup>	$J$
Thermal time constant	14	min	$T_{th}$
Motor mass	1.6	kg	$M$

All data are given in typical values under standard conditions



FICHER-001

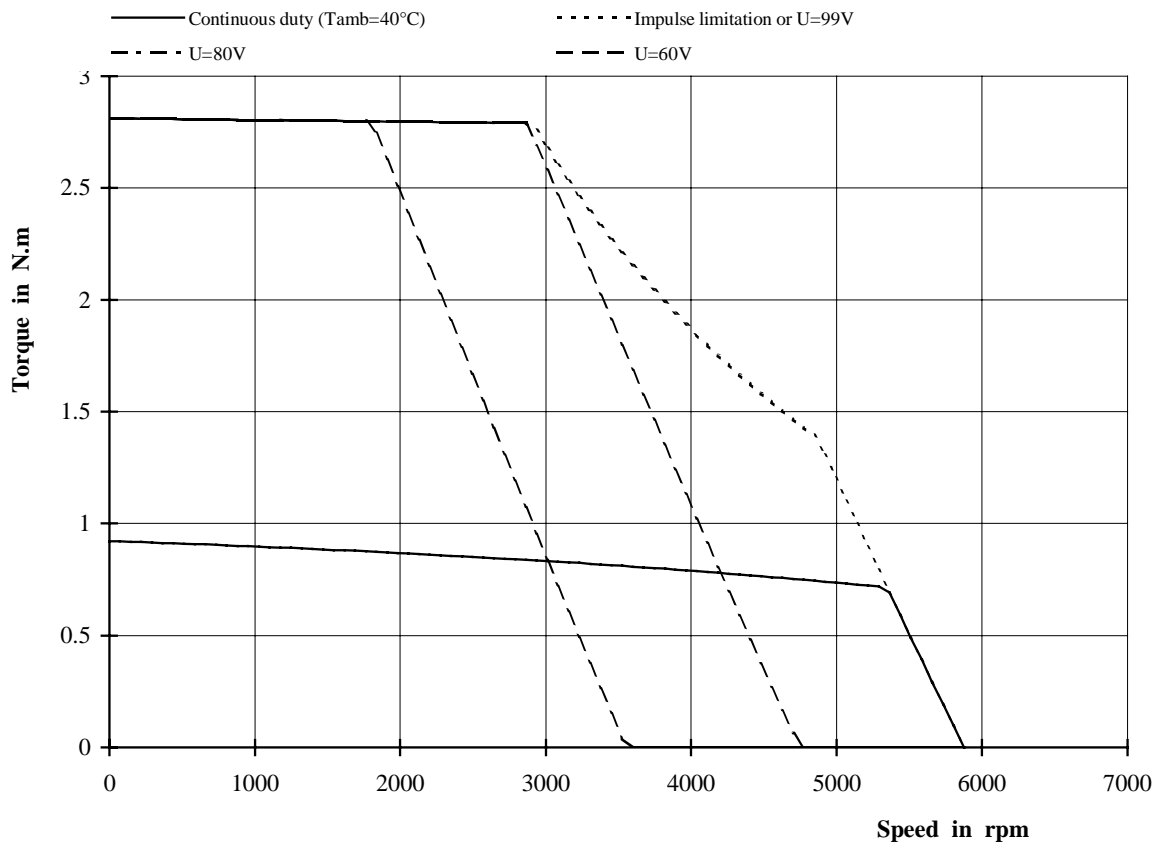
DC-S ERVOMOTOR  
RS420J

# PARVEX

8 avenue du Lac  
BP249  
F-21007 DIJON Cedex

Low speed torque	<b>0.93</b>	N.m	<i>Mo</i>
Permanent current at low speed	<b>6.2</b>	A	<i>Io</i>
Supply voltage with loaded motor	<b>60</b>	V	<i>U</i>
Definition speed	<b>3000</b>	rpm	<i>N</i>
Maximum supply voltage	<b>99</b>	V	<i>Umax</i>
Maximum speed	<b>5900</b>	rpm	<i>Nmax</i>
Peak current	<b>19</b>	A	<i>Imax</i>
Back emf constant at 1000 rpm (25°C)*	<b>16.6</b>	V	<i>Ke</i>
Torque constant	<b>0.16</b>	N.m/A	<i>Kt</i>
Static friction torque	<b>5.4</b>	N.cm	<i>Tf</i>
Viscous damping for 1000 rpm	<b>0.75</b>	N.cm	<i>Kd</i>
Winding resistance(25°C)	<b>0.96</b>	$\Omega$	<i>Rb</i>
Winding inductance	<b>1.9</b>	mH	<i>L</i>
Rotor inertia	<b>0.000225</b>	kg.m <sup>2</sup>	<i>J</i>
Thermal time constant	<b>12.5</b>	min	<i>Tth</i>
Motor mass	<b>2.2</b>	kg	<i>M</i>

All data are given in typical values under standard conditions



FICHER-001

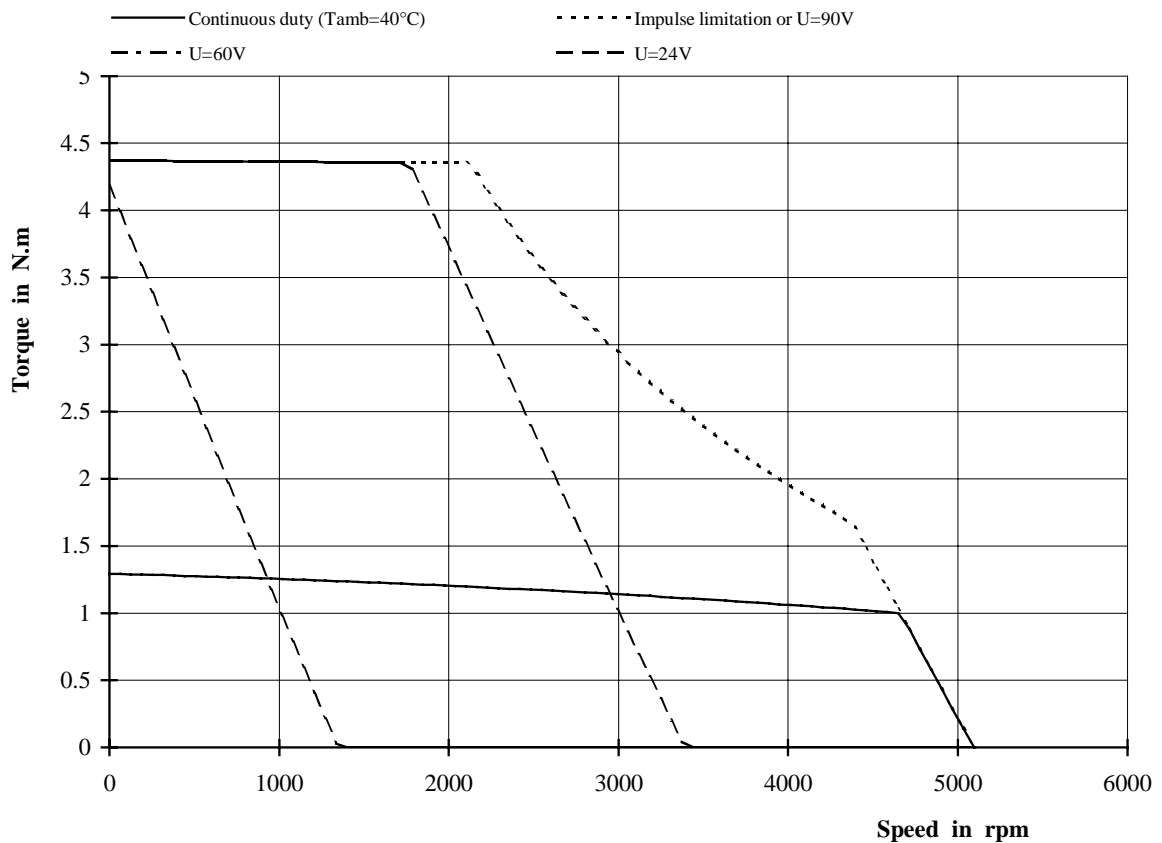
DC-SERVOMOTOR  
RS430F

# PARVEX

8 avenue du Lac  
BP249  
F-21007 DIJON Cedex

Low speed torque	1.3	N.m	$M_o$
Permanent current at low speed	8.1	A	$I_o$
Supply voltage with loaded motor	43	V	$U$
Definition speed	2000	rpm	$N$
Maximum supply voltage	90	V	$U_{max}$
Maximum speed	5100	rpm	$N_{max}$
Peak current	28	A	$I_{max}$
Back emf constant at 1000 rpm (25°C)*	17.5	V	$K_e$
Torque constant	0.167	N.m/A	$K_t$
Static friction torque	5.7	N.cm	$T_f$
Viscous damping for 1000 rpm	0.94	N.cm	$K_d$
Winding resistance(25°C)	0.59	$\Omega$	$R_b$
Winding inductance	1.33	mH	$L$
Rotor inertia	0.00031	kg.m <sup>2</sup>	$J$
Thermal time constant	11.5	min	$T_{th}$
Motor mass	2.8	kg	$M$

All data are given in typical values under standard conditions



FICHER-001

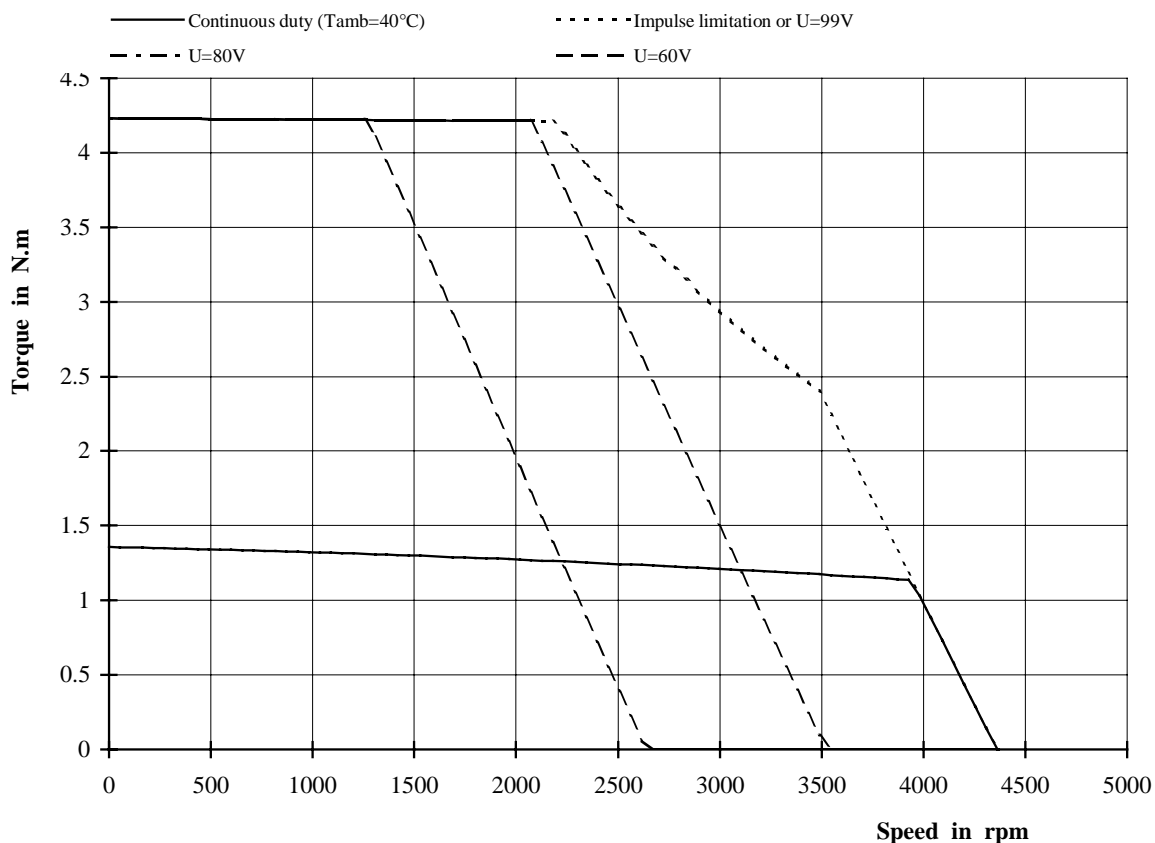
DC-S ERVOMOTOR  
RS 430H

# PARVEX

8 avenue du Lac  
BP249  
F-21007 DIJON Cedex

Low speed torque	<b>1.36</b>	N.m	<i>M<sub>0</sub></i>
Permanent current at low speed	<b>6.6</b>	A	<i>I<sub>0</sub></i>
Supply voltage with loaded motor	<b>78</b>	V	<i>U</i>
Definition speed	<b>3000</b>	rpm	<i>N</i>
Maximum supply voltage	<b>99</b>	V	<i>U<sub>max</sub></i>
Maximum speed	<b>4400</b>	rpm	<i>N<sub>max</sub></i>
Peak current	<b>21</b>	A	<i>I<sub>max</sub></i>
Back emf constant at 1000 rpm (25°C)*	<b>22.5</b>	V	<i>K<sub>e</sub></i>
Torque constant	<b>0.215</b>	N.m/A	<i>K<sub>t</sub></i>
Static friction torque	<b>5.7</b>	N.cm	<i>T<sub>f</sub></i>
Viscous damping for 1000 rpm	<b>0.94</b>	N.cm	<i>K<sub>d</sub></i>
Winding resistance(25°C)	<b>0.94</b>	Ω	<i>R<sub>b</sub></i>
Winding inductance	<b>2.2</b>	mH	<i>L</i>
Rotor inertia	<b>0.00031</b>	kg.m <sup>2</sup>	<i>J</i>
Thermal time constant	<b>11.5</b>	min	<i>T<sub>th</sub></i>
Motor mass	<b>2.8</b>	kg	<i>M</i>

All data are given in typical values under standard conditions



FICHER-001



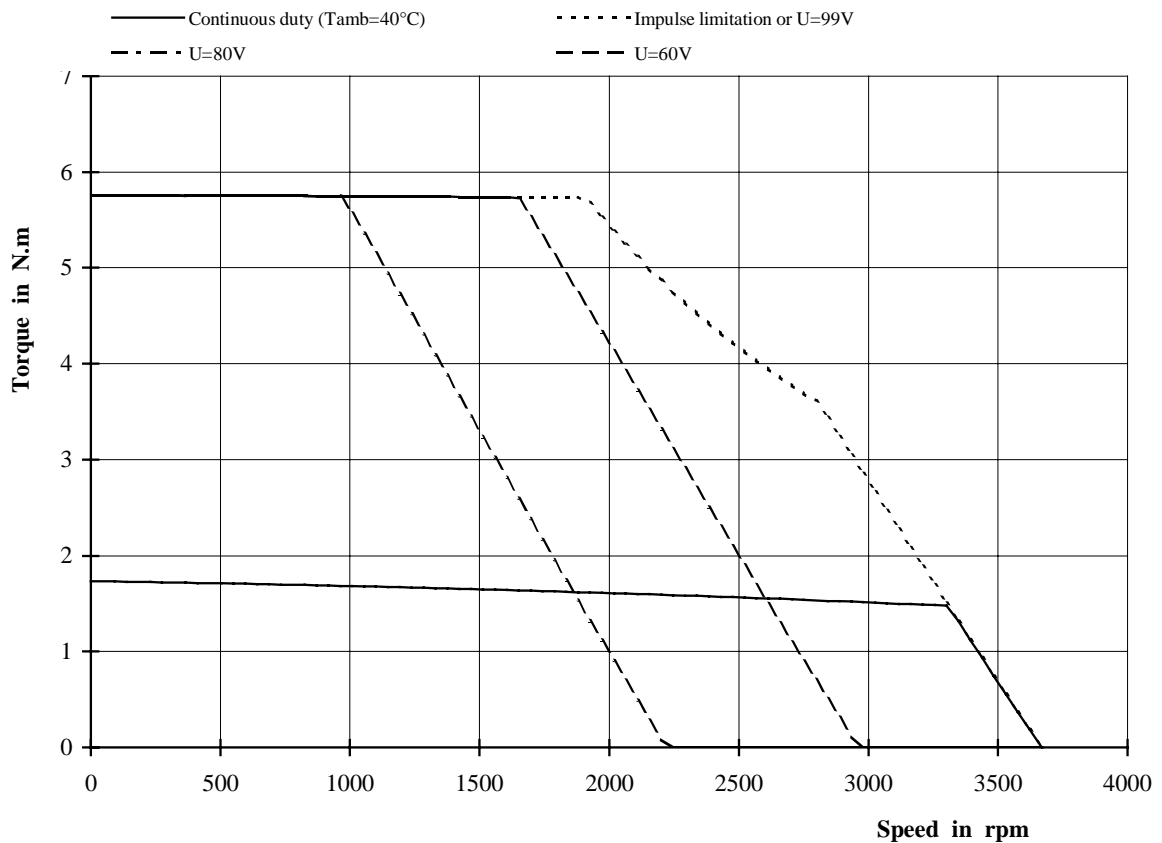
DC-SERVOMOTOR  
RS440G

# PARVEX

8 avenue du Lac  
BP249  
F-21007 DIJON Cedex

Low speed torque	1.74	N.m	$M_0$
Permanent current at low speed	7	A	$I_0$
Supply voltage with loaded motor	90	V	$U$
Definition speed	3000	rpm	$N$
Maximum supply voltage	99	V	$U_{max}$
Maximum speed	3700	rpm	$N_{max}$
Peak current	24	A	$I_{max}$
Back emf constant at 1000 rpm (25°C)*	27	V	$K_e$
Torque constant	0.256	N.m/A	$K_t$
Static friction torque	5.9	N.cm	$T_f$
Viscous damping for 1000 rpm	1.13	N.cm	$K_d$
Winding resistance(25°C)	0.9	$\Omega$	$R_b$
Winding inductance	2.2	mH	$L$
Rotor inertia	0.0004	kg.m <sup>2</sup>	$J$
Thermal time constant	10.5	min	$T_{th}$
Motor mass	3.4	kg	$M$

All data are given in typical values under standard conditions



FICHER-001

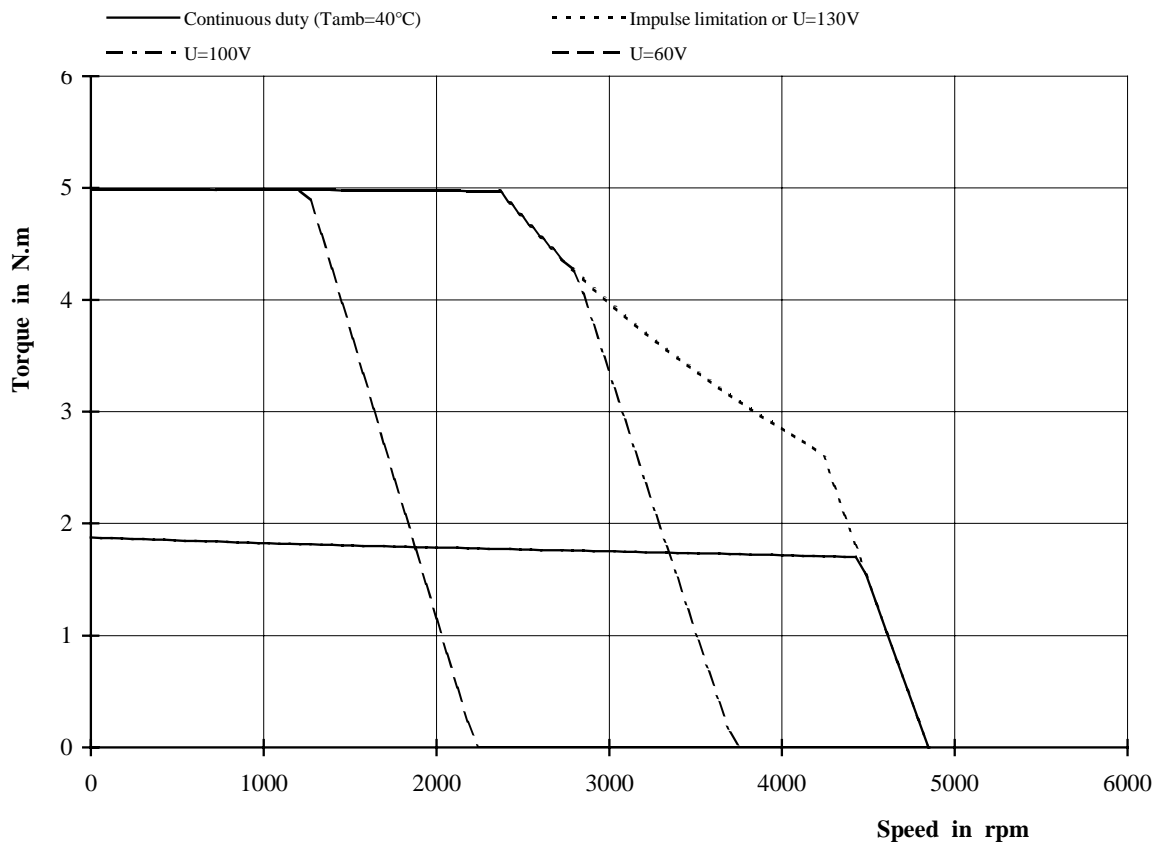
DC-SERVOMOTOR  
RS510L

# PARVEX

8 avenue du Lac  
BP249  
F-21007 DIJON Cedex

Low speed torque	<b>1.9</b>	N.m	<i>M<sub>0</sub></i>
Permanent current at low speed	<b>7.9</b>	A	<i>I<sub>0</sub></i>
Supply voltage with loaded motor	<b>82</b>	V	<i>U</i>
Definition speed	<b>2700</b>	rpm	<i>N</i>
Maximum supply voltage	<b>130</b>	V	<i>U<sub>max</sub></i>
Maximum speed	<b>4850</b>	rpm	<i>N<sub>max</sub></i>
Peak current	<b>21</b>	A	<i>I<sub>max</sub></i>
Back emf constant at 1000 rpm (25°C)*	<b>26.6</b>	V	<i>K<sub>e</sub></i>
Torque constant	<b>0.254</b>	N.m/A	<i>K<sub>t</sub></i>
Static friction torque	<b>12</b>	N.cm	<i>T<sub>f</sub></i>
Viscous damping for 1000 rpm	<b>0.71</b>	N.cm	<i>K<sub>d</sub></i>
Winding resistance(25°C)	<b>0.71</b>	Ω	<i>R<sub>b</sub></i>
Winding inductance	<b>3.6</b>	mH	<i>L</i>
Rotor inertia	<b>0.001</b>	kg.m <sup>2</sup>	<i>J</i>
Thermal time constant	<b>18</b>	min	<i>T<sub>th</sub></i>
Motor mass	<b>5.1</b>	kg	<i>M</i>

All data are given in typical values under standard conditions



FICHER-001

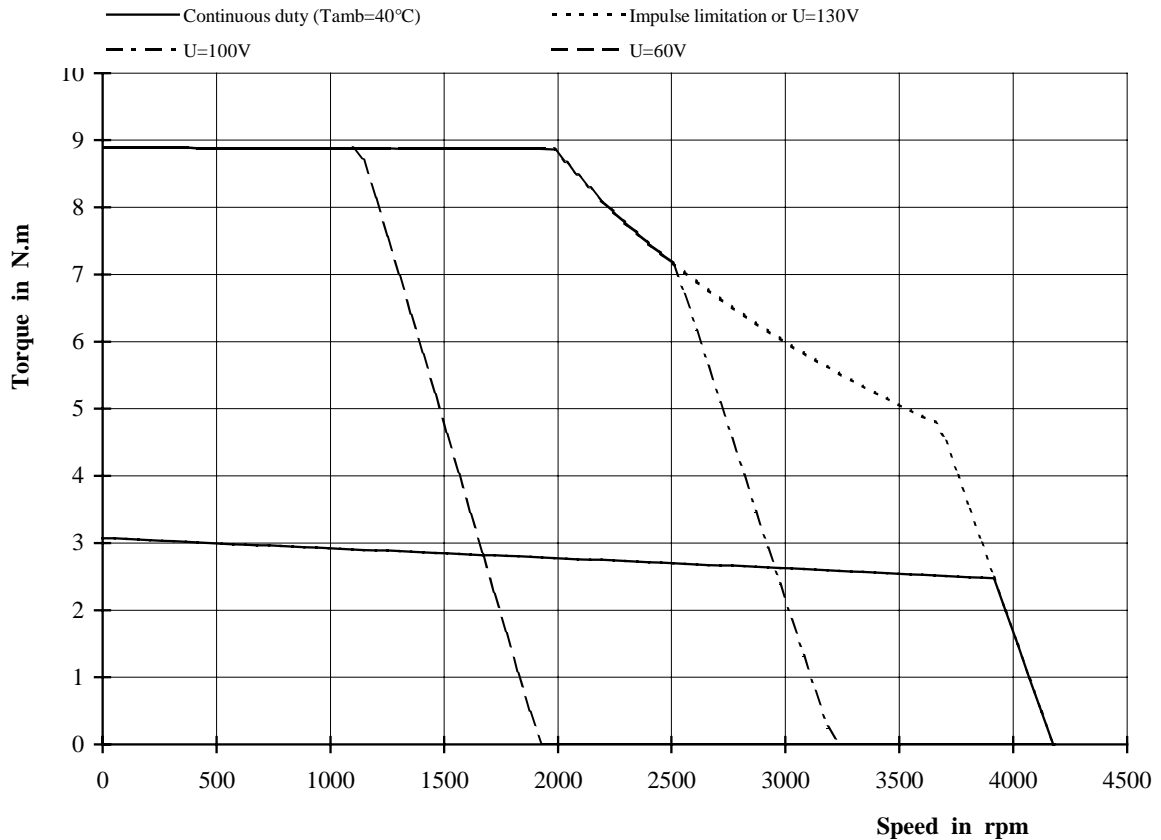
DC-SERVOMOTOR  
RS520G

# PARVEX

8 avenue du Lac  
BP249  
F-21007 DIJON Cedex

Low speed torque	<b>3.1</b>	N.m	<i>M<sub>o</sub></i>
Permanent current at low speed	<b>10.9</b>	A	<i>I<sub>o</sub></i>
Supply voltage with loaded motor	<b>92</b>	V	<i>U</i>
Definition speed	<b>2700</b>	rpm	<i>N</i>
Maximum supply voltage	<b>130</b>	V	<i>U<sub>max</sub></i>
Maximum speed	<b>4200</b>	rpm	<i>N<sub>max</sub></i>
Peak current	<b>32</b>	A	<i>I<sub>max</sub></i>
Back emf constant at 1000 rpm (25°C)*	<b>31</b>	V	<i>K<sub>e</sub></i>
Torque constant	<b>0.296</b>	N.m/A	<i>K<sub>t</sub></i>
Static friction torque	<b>13</b>	N.cm	<i>T<sub>f</sub></i>
Viscous damping for 1000 rpm	<b>0.92</b>	N.cm	<i>K<sub>d</sub></i>
Winding resistance(25°C)	<b>0.4</b>	Ω	<i>R<sub>b</sub></i>
Winding inductance	<b>2.34</b>	mH	<i>L</i>
Rotor inertia	<b>0.00135</b>	kg.m <sup>2</sup>	<i>J</i>
Thermal time constant	<b>17.8</b>	min	<i>T<sub>th</sub></i>
Motor mass	<b>6.3</b>	kg	<i>M</i>

All data are given in typical values under standard conditions



FICHER-001

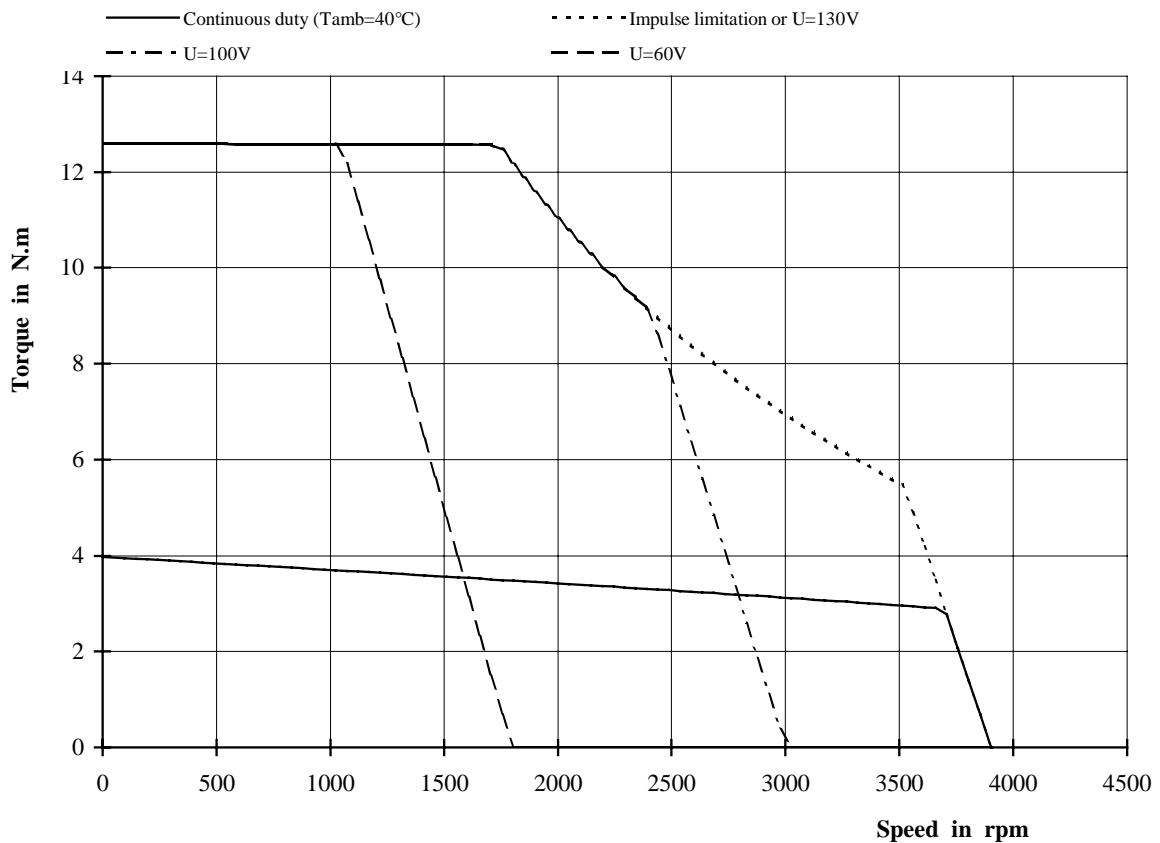
DC-SERVOMOTOR  
RS530E

# PARVEX

8 avenue du Lac  
BP249  
F-21007 DIJON Cedex

Low speed torque	<b>4</b>	N.m	<i>M<sub>o</sub></i>
Permanent current at low speed	<b>13</b>	A	<i>I<sub>o</sub></i>
Supply voltage with loaded motor	<b>97</b>	V	<i>U</i>
Definition speed	<b>2700</b>	rpm	<i>N</i>
Maximum supply voltage	<b>130</b>	V	<i>U<sub>max</sub></i>
Maximum speed	<b>3900</b>	rpm	<i>N<sub>max</sub></i>
Peak current	<b>42</b>	A	<i>I<sub>max</sub></i>
Back emf constant at 1000 rpm (25°C)*	<b>33</b>	V	<i>K<sub>e</sub></i>
Torque constant	<b>0.32</b>	N.m/A	<i>K<sub>t</sub></i>
Static friction torque	<b>14</b>	N.cm	<i>T<sub>f</sub></i>
Viscous damping for 1000 rpm	<b>1.13</b>	N.cm	<i>K<sub>d</sub></i>
Winding resistance(25°C)	<b>0.29</b>	Ω	<i>R<sub>b</sub></i>
Winding inductance	<b>1.74</b>	mH	<i>L</i>
Rotor inertia	<b>0.0017</b>	kg.m <sup>2</sup>	<i>J</i>
Thermal time constant	<b>19</b>	min	<i>T<sub>th</sub></i>
Motor mass	<b>7.5</b>	kg	<i>M</i>

All data are given in typical values under standard conditions



FICHER-001

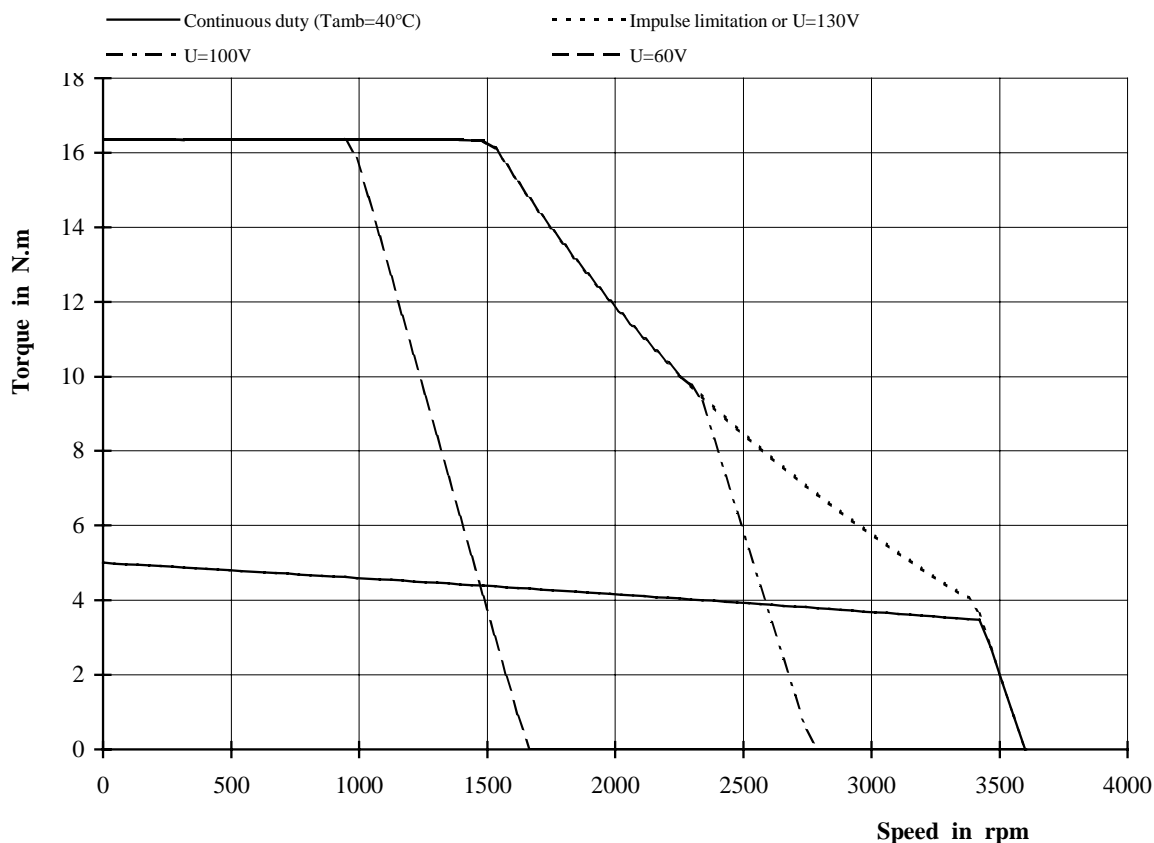
DC-SERVOMOTOR  
RS540C

# PARVEX

8 avenue du Lac  
BP249  
F-21007 DIJON Cedex

Low speed torque	5	N.m	$M_o$
Permanent current at low speed	15	A	$I_o$
Supply voltage with loaded motor	104	V	$U$
Definition speed	2700	rpm	$N$
Maximum supply voltage	130	V	$U_{max}$
Maximum speed	3600	rpm	$N_{max}$
Peak current	50	A	$I_{max}$
Back emf constant at 1000 rpm (25°C)*	36	V	$K_e$
Torque constant	0.344	N.m/A	$K_t$
Static friction torque	15	N.cm	$T_f$
Viscous damping for 1000 rpm	1.34	N.cm	$K_d$
Winding resistance(25°C)	0.225	$\Omega$	$R_b$
Winding inductance	1.5	mH	$L$
Rotor inertia	0.00205	kg.m <sup>2</sup>	$J$
Thermal time constant	20.6	min	$T_{th}$
Motor mass	8.7	kg	$M$

All data are given in typical values under standard conditions



FICHER-001

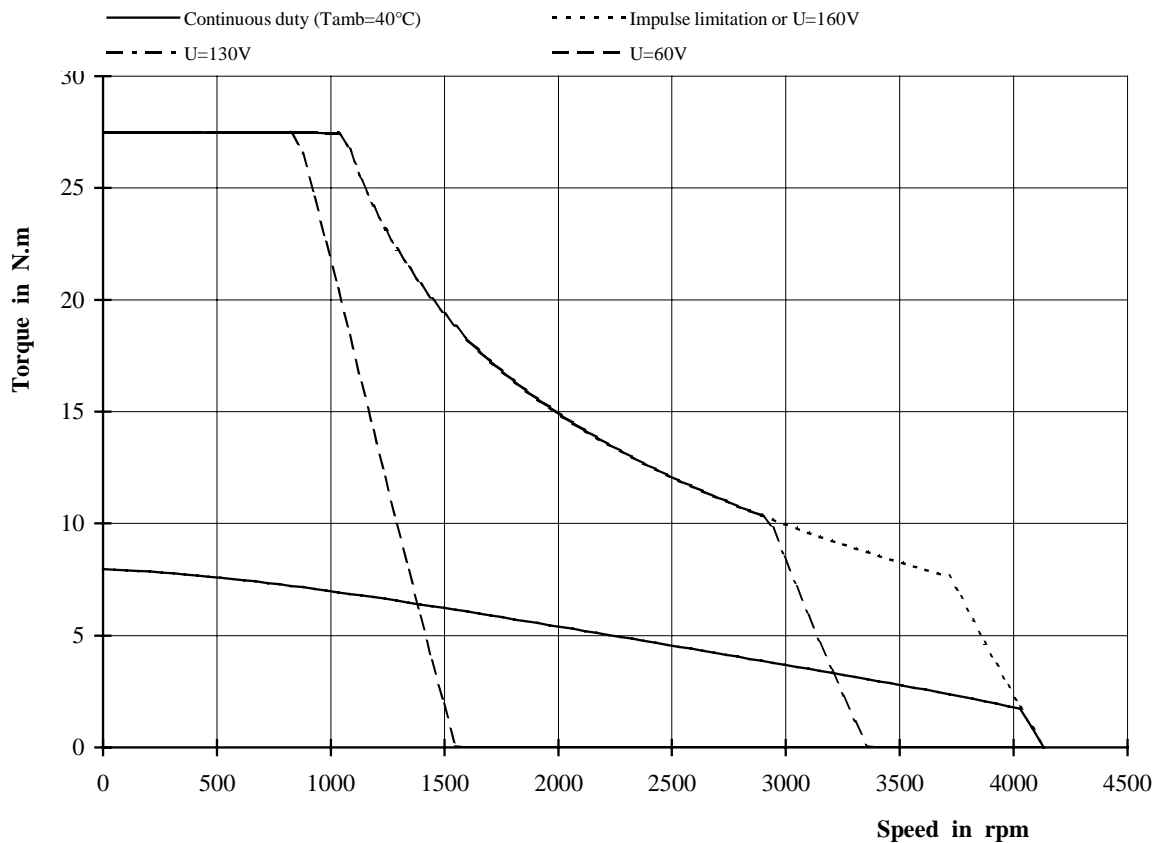
DC-SERVOMOTOR  
RS620G

# PARVEX

8 avenue du Lac  
BP249  
F-21007 DIJON Cedex

Low speed torque	8	N.m	$M_o$
Permanent current at low speed	22.3	A	$I_o$
Supply voltage with loaded motor	100	V	$U$
Definition speed	2400	rpm	$N$
Maximum supply voltage	160	V	$U_{max}$
Maximum speed	4100	rpm	$N_{max}$
Peak current	82	A	$I_{max}$
Back emf constant at 1000 rpm (25°C)*	38.5	V	$K_e$
Torque constant	0.37	N.m/A	$K_t$
Static friction torque	20	N.cm	$T_f$
Viscous damping for 1000 rpm	5	N.cm	$K_d$
Winding resistance(25°C)	0.155	$\Omega$	$R_b$
Winding inductance	1.78	mH	$L$
Rotor inertia	0.0053	kg.m <sup>2</sup>	$J$
Thermal time constant	26.7	min	$T_{th}$
Motor mass	11.5	kg	$M$

All data are given in typical values under standard conditions



FICHER-001

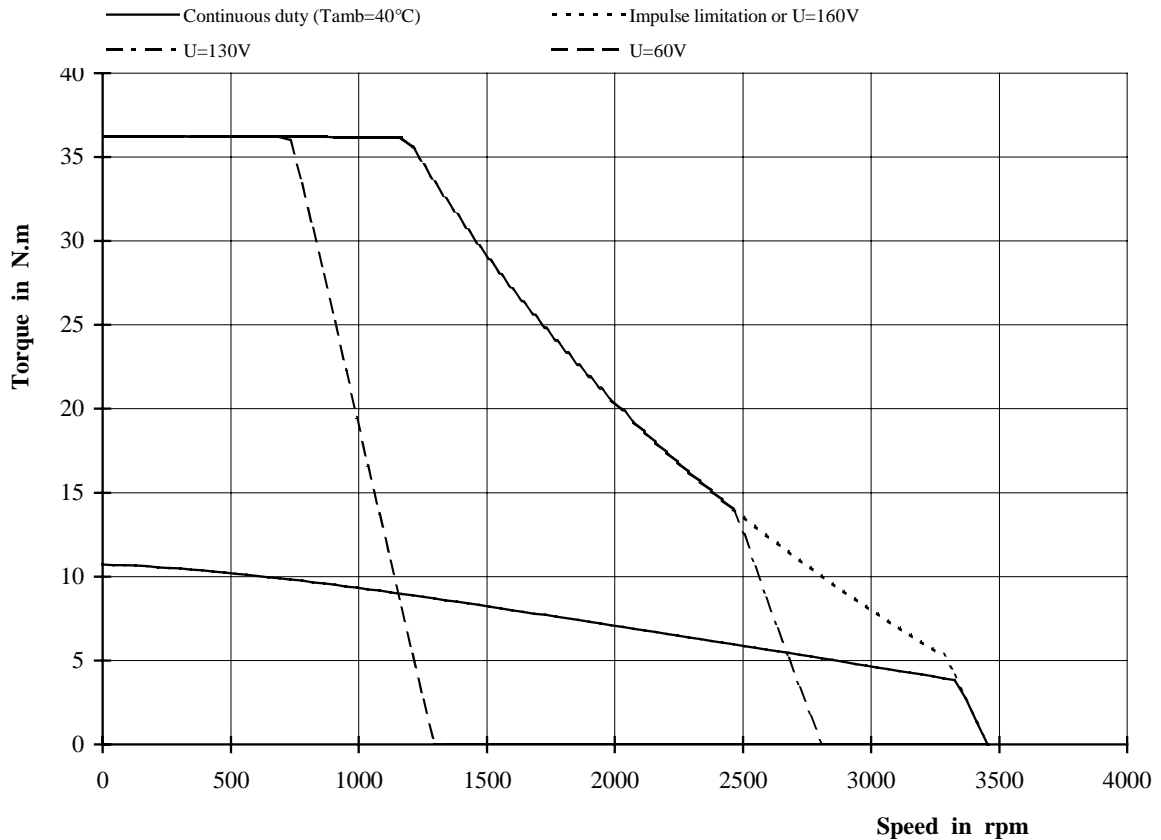
DC-SERVOMOTOR  
RS630F

# PARVEX

8 avenue du Lac  
BP249  
F-21007 DIJON Cedex

Low speed torque	<b>10.8</b>	N.m	<i>M<sub>o</sub></i>
Permanent current at low speed	<b>25</b>	A	<i>I<sub>o</sub></i>
Supply voltage with loaded motor	<b>100</b>	V	<i>U</i>
Definition speed	<b>2000</b>	rpm	<i>N</i>
Maximum supply voltage	<b>160</b>	V	<i>U<sub>max</sub></i>
Maximum speed	<b>3460</b>	rpm	<i>N<sub>max</sub></i>
Peak current	<b>90</b>	A	<i>I<sub>max</sub></i>
Back emf constant at 1000 rpm (25°C)*	<b>46</b>	V	<i>K<sub>e</sub></i>
Torque constant	<b>0.44</b>	N.m/A	<i>K<sub>t</sub></i>
Static friction torque	<b>22</b>	N.cm	<i>T<sub>f</sub></i>
Viscous damping for 1000 rpm	<b>6</b>	N.cm	<i>K<sub>d</sub></i>
Winding resistance(25°C)	<b>0.134</b>	Ω	<i>R<sub>b</sub></i>
Winding inductance	<b>1.62</b>	mH	<i>L</i>
Rotor inertia	<b>0.0068</b>	kg.m <sup>2</sup>	<i>J</i>
Thermal time constant	<b>31</b>	min	<i>T<sub>th</sub></i>
Motor mass	<b>14</b>	kg	<i>M</i>

All data are given in typical values under standard conditions



FICHER-001

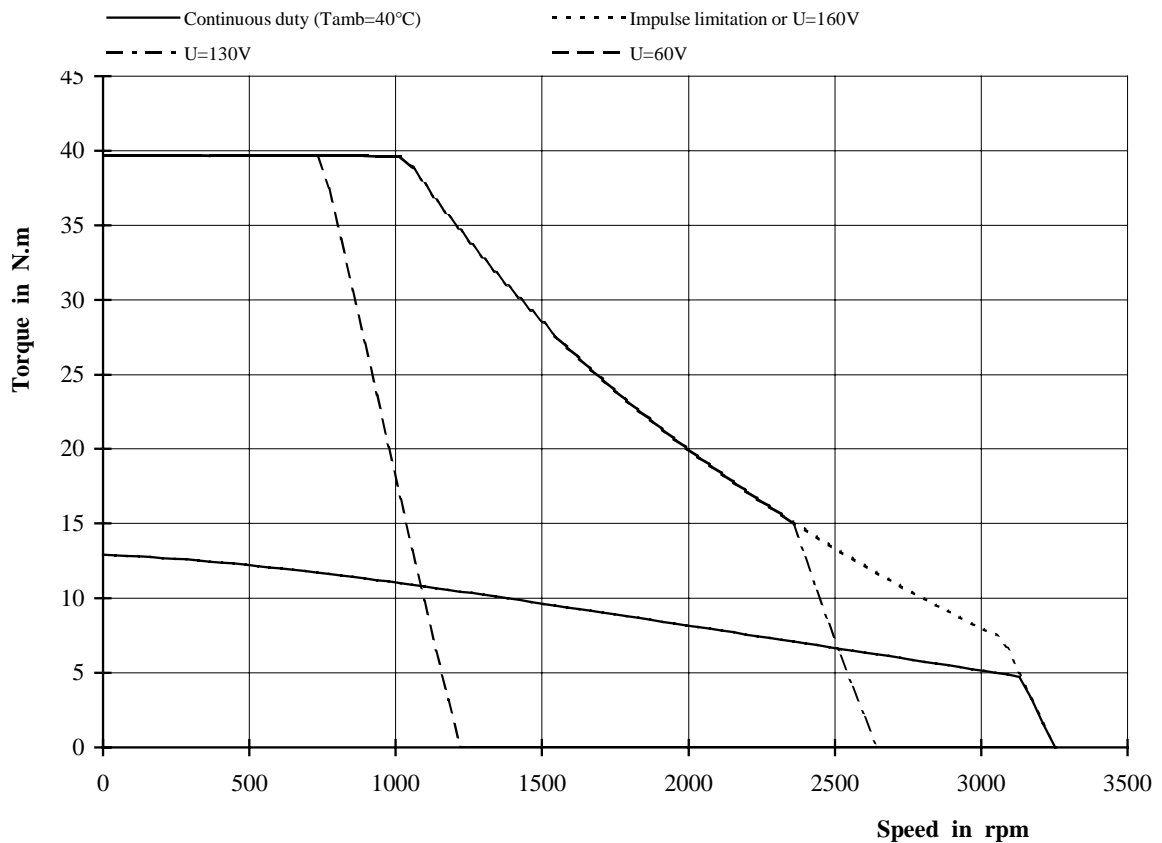
DC-SERVOMOTOR  
**RS640E**

# PARVEX

8 avenue du Lac  
 BP249  
 F-21007 DIJON Cedex

Low speed torque	<b>13</b>	<i>N.m</i>	<i>Mo</i>
Permanent current at low speed	<b>28</b>	<i>A</i>	<i>Io</i>
Supply voltage with loaded motor	<b>105</b>	<i>V</i>	<i>U</i>
Definition speed	<b>2000</b>	<i>rpm</i>	<i>N</i>
Maximum supply voltage	<b>160</b>	<i>V</i>	<i>Umax</i>
Maximum speed	<b>3250</b>	<i>rpm</i>	<i>Nmax</i>
Peak current	<b>90</b>	<i>A</i>	<i>Imax</i>
Back emf constant at 1000 rpm (25°C)*	<b>49</b>	<i>V</i>	<i>Ke</i>
Torque constant	<b>0.47</b>	<i>N.m/A</i>	<i>Kt</i>
Static friction torque	<b>24</b>	<i>N.cm</i>	<i>Tf</i>
Viscous damping for 1000 rpm	<b>7</b>	<i>N.cm</i>	<i>Kd</i>
Winding resistance(25°C)	<b>0.12</b>	$\Omega$	<i>Rb</i>
Winding inductance	<b>1.38</b>	<i>mH</i>	<i>L</i>
Rotor inertia	<b>0.0083</b>	<i>kg.m<sup>2</sup></i>	<i>J</i>
Thermal time constant	<b>32.7</b>	<i>min</i>	<i>Tth</i>
Motor mass	<b>16.3</b>	<i>kg</i>	<i>M</i>

All data are given in typical values under standard conditions



FICHER-001