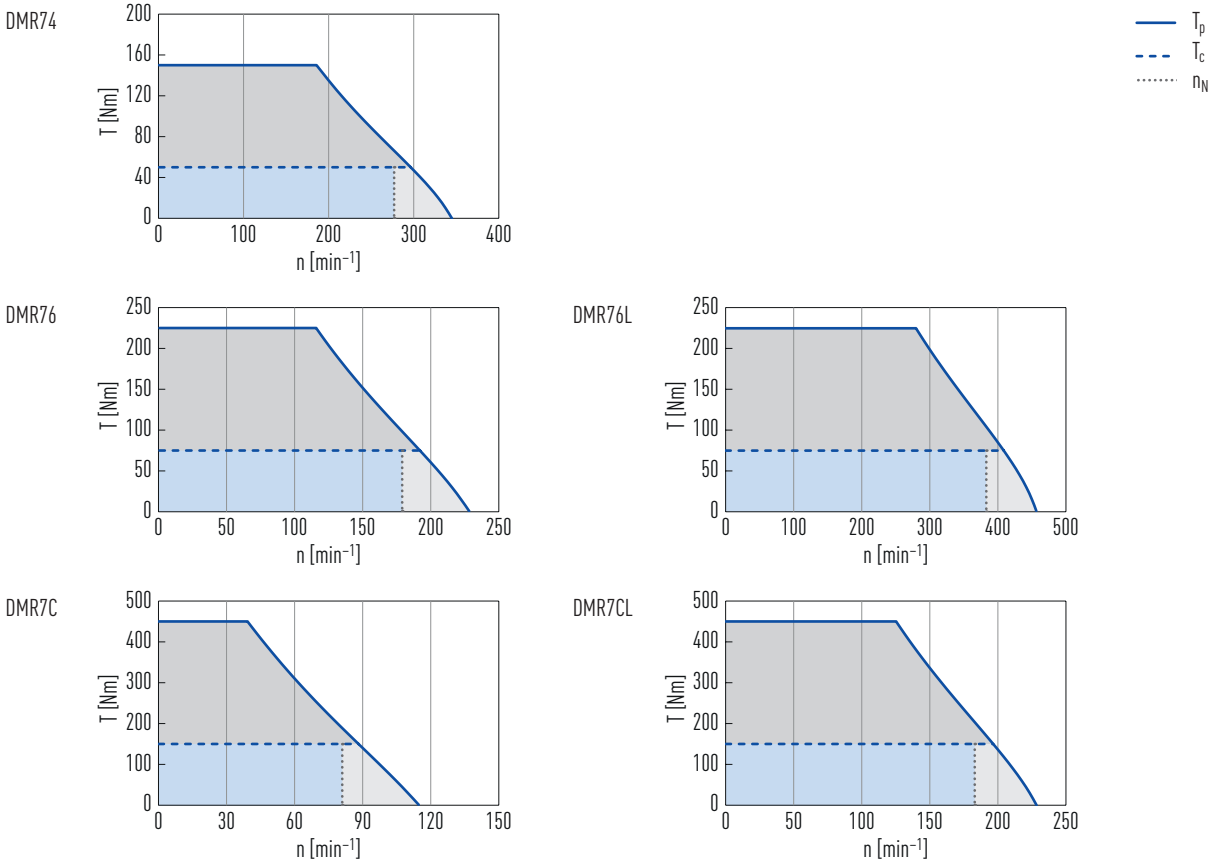


### Specifications

#### Torque-speed curves (DC bus voltage: 600 VDC)



Technical data for DMR7							
	Symbol	Unit	DMR74	DMR76	DMR76L	DMR7C	DMR7CL
<b>Torques and electrical parameters</b>							
Peak torque (for 1 sec.)	$T_p$	Nm	150	225		450	
Continuous torque <sup>1)</sup>	$T_c$	Nm	50	75		150	
Stall torque	$T_s$	Nm	35	52.5		105	
Peak current (for 1 sec.)	$I_p$	A	10.2	10.2	20.4	10.2	20.4
Continuous current <sup>1)</sup>	$I_c$	A	3.4	3.4	6.8	3.4	6.8
Stall current	$I_s$	A	2.4	2.4	4.8	2.4	4.8
Resistance <sup>2)</sup>	$R_{25}$	$\Omega$	12.9	17	4.3	29	7.3
Inductance <sup>2)</sup>	$L_{25}$	mH	55	76	19	145	36.3
Motor constant	$K_m$	Nm/ $\sqrt{W}$	3.9	5.1	5	7.7	7.7
Electrical time constant	$K_e$	ms	4.3	4.5	4.4	5	5
Torque constant	$K_t$	Nm/A	17	25.6	12.8	51.1	25.5
Back emf constant	$K_u$	$V_{eff}/(\text{rad/s})$	9.8	14.8	7.4	29.5	14.8
Inertia of rotor	J	kgm <sup>2</sup>	0.044	0.061		0.11	
Thermal resistance	$R_{th}$	$^{\circ}\text{C/W}$	0.42	0.32		0.19	
Thermal time constant	$T_{th}$	s	2,230	2,330		2,350	
Max. DC Bus	$U_{max}$	VDC	600				
Rated speed	$n_N$	min <sup>-1</sup>	277	179	383	81	183

### Mechanical parameters

<b>Number of poles</b>	2p		44		
<b>Thermal sensor</b>			PTC SNM 120		
<b>Stator height</b>	H <sub>S</sub>	mm	80	100	160
<b>Rotor height</b>	H <sub>R</sub>	mm	40	60	120
<b>Mass of motor</b>	M <sub>m</sub>	kg	15.9	20.4	33.7

All the specifications in the table (except dimensions) are in ± 10 % of tolerance at 25 °C ambient temperature

<sup>1)</sup> Coil temperature 120 °C

<sup>2)</sup> Line-to-line

### Dimensions

