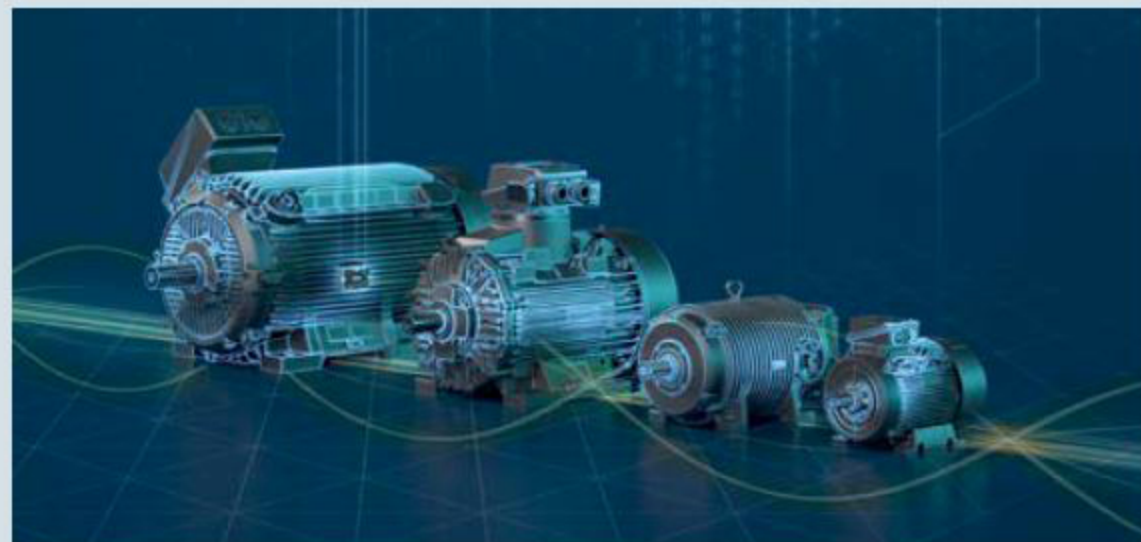


Low-voltage motors for line and converter operation

The right motor for every application



General Purpose –
SIMOTICS GP



Severe Duty –
SIMOTICS SD



Explosion Proof –
SIMOTICS XP



Definite Purpose –
SIMOTICS DP



High Torque –
SIMOTICS HT



Transnorm –
SIMOTICS TN/HV



	General Purpose – SIMOTICS GP	Severe Duty – SIMOTICS SD	Explosion Proof – SIMOTICS XP	Definite Purpose – SIMOTICS DP	High Torque – SIMOTICS HT	Transnorm – SIMOTICS TN/HV
Rated power	IEC: 0.09 to 45 kW Reluctance: 0.55 to 30 kW NEMA: 0.5 to 50 HP	IEC: 0.09 to 1,000 kW Reluctance: 0.55 to 45 kW NEMA: 0.12 to 250 HP	0.09 to 1,000 kW	0.09 to 1,000 kW	150 to 2,100 kW	150 to 5,300 kW
Rated voltage	IEC: 230 to 690 V Reluctance: 400/460 V at converter input NEMA: 220 to 575 V	IEC: 230 to 690 V Reluctance: 400/460 V at converter input NEMA: 220 to 575 V	230 to 690 V	230 to 690 V	400 to 690 V	380 to 690 V
IEC (shaft height) NEMA (frame size)	IEC: 63 to 200 Reluctance: 80 to 200	IEC: 71 to 450 Reluctance: 80 to 225	63 to 450	63 to 450	400 to 500	315 to 710
Rated torque M_N Feed force F_N	IEC: 0.61 to 293.8 Nm Reluctance: 3.5 to 191 Nm	IEC: 1.3 to 8,100 Nm Reluctance: 3.5 to 191 Nm	0.61 to 8,090 Nm	2.5 to 3,142 Nm	6,000 to 42,000 Nm	800 to 77,166 Nm
Maximum torque M_{Max} Maximum torque F_{Max}	–	–	–	–	42,000 Nm	–
Rated speed n_N Speed at rated force	IEC: 750 to 3,000 min ⁻¹ (at 50 Hz) Reluctance: 1,500/1,800/2,610 min ⁻¹	IEC: 750 to 3,000 min ⁻¹ (at 50 Hz) Reluctance: 1,500/1,800/2,610/3,000/ 3,600 min ⁻¹	750 to 3,000 min ⁻¹ (at 50 Hz)	750 to 3,000 min ⁻¹ (at 50 Hz)	200 to 800 min ⁻¹ (at 50 Hz)	750 to 3,600 min ⁻¹ (at 50 Hz)
Maximum speed n_{Max} Maximum speed	Asynchronous: up to 6,000 min ⁻¹ Reluctance: up to 4,500 min ⁻¹	Asynchronous: up to 6,000 min ⁻¹ Reluctance: up to 4,500 min ⁻¹	Up to 6,000 min ⁻¹	Up to 6,000 min ⁻¹	Up to 1,000 min ⁻¹	Up to 5,000 min ⁻¹
Type of protection (rating)	IP55, IP56, IP65	IP55, IP56, IP65	IP55, IP56, IP65	IP55, IP56, IP65	IP55	IP23, IP55, IP56, IP65, IP66
Efficiency class	IE1 to IE4	IE1 to IE4	IE2 to IE4 (IE4 only 1MB5)	IE2 to IE4	–	–
System efficiency class	IES1/IES2	IES1/IES2	IES1/IES2	IES1/IES2	–	–