












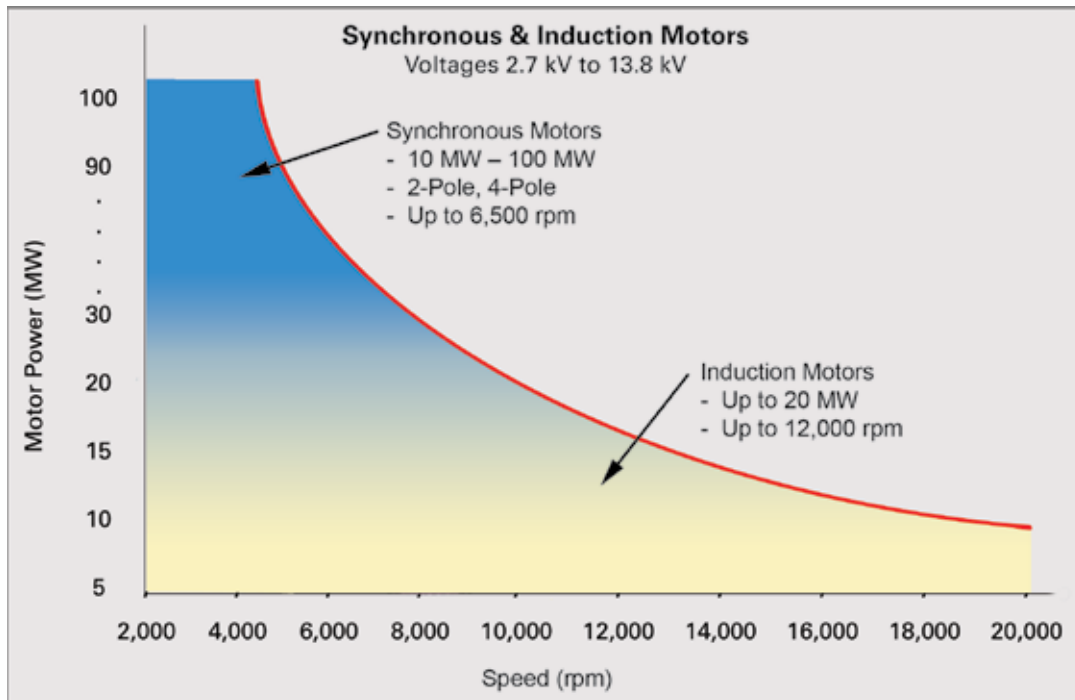
Low and Medium Voltage Motor Specifications

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Product	Induction Motors								Synchronous Motors		
	LV and MV TM21™-FII	Mill Motors TM-AC	MV Motors TM21-G	MV Motors TM21-H	MV Motors TM21-MII	MV Motors TM21-L	Vertical Motors TM21-VL & VLL	High Speed (Custom design)	Main Drive Motor (Custom design)	Medium-High Power (Custom design)	High-Speed (Custom design)
Typical View											
Power	37-1,400 kW (50-1,870 hp)	44-370 kW (59-490 hp)	Up to 23,000 kW (30,800 hp)	Up to 8,000 kW (10,270 hp)	Up to 3,550 kW (4,750 hp)	Up to 18,500 kW (25,000 hp)	Up to 6,500 kW (8,700 hp)	Up to 8,000 kW (10,720 hp)	12,000 kW	Up to 80,000 kW (107,240 hp)	Up to 80,000 kW (107,240 hp)
Speed	Up to 3,600 rpm	Up to 1,300 rpm	Up to 3,600 rpm	Up to 3,600 rpm	Up to 3,600 rpm	Up to 3,600 rpm	Up to 1,800 rpm, option > than 30 poles	Up to 11,900 rpm on VFD power	Up to 1,540 rpm	Very low speed up to 3,600 rpm	Up to 6,500 rpm
Voltage	Up to 6.9 kV	420 Vac max.	2 – 11 kV	13.8 kV	2 –11 kV	2 –13.8 kV	2 –13.8 kV	2.3 -11 kV	Up to 6.6 kV	3.3 –13.8 kV	Up to 13.8 kV
Enclosure	Totally Enclosed Fan Cooled –TEFC/ IP55	Totally Enclosed Forced Ventilated – TEFV Drip Proof Forced Ventilated – DPFV Totally Enclosed Non Ventilated – TENV	Weather Protected II-WPII/IP24W Totally Enclosed Air-to-Air-Cooled – TEAAC/IP54/IP55/IP56 Totally Enclosed Water-to-Air-Cooled– TEWAC/IP54/IP55/IP56	Weather Protected II-WPII/IP24W Totally Encl. Air to Air Cooled – TEAAC/IP55 Totally Encl. Water to Air Cooled – TEWAC/ IP55/56	Open Drip Proof – ODP/IP22 Weather Protected II- WPPII/IP24W Totally Encl. Air to Air Cooled – TEAAC/IP55 Totally Encl. Water to Air Cooled – TEWAC/ IP55/56 Totally Encl. Separately (Pipe) Ventilated – TESV/IP55/56	Open Drip Proof – ODP/IP22 Weather Protected II- WPPII/IP24W Totally Encl. Air to Air Cooled – TEAAC/ IP55 Totally Encl. Water to Air Cooled – TEWAC/ IP55 Totally Encl. Separately (Pipe) Ventilated – TESV/IP55	Open Drip Proof – ODP/IP22 Weather Protected II- WPPII/IP24W Totally Enclosed Air to Air Cooled – TEAAC/IP55 Totally Enclosed Water to Air Cooled – TEWAC/IP55 Totally Enclosed Water to Air Cooled – TEWAC/IP55	Totally Enclosed Air to Air Cooled– TEAAC/IP55 Totally Enclosed Water to Air Cooled – TEWAC/ IP55 (Blower ventilated)	Totally Enclosed Water to Air Cooled – TEWAC	Totally Enclosed Air-Air Cooled– TEAAC/IP55 Totally Enclosed Water to Air Cooled – TEWAC/ IP55	Totally Enclosed Water to Air Cooled – TEWAC/ IP55
Classified Area	Exn, Extc, Exd	N/A	Exn, Exe, Exp	Exn, Exe, Exp	Exn, Exe, Exp, ExtD	Exn, Exe, Exp, ExtD	Exn, Exe, Exp	Exn, Exe, Exp	N/A	Exp	Exp
Rotor	Aluminum die cast rotor, or Copper rotor bars	Aluminum die cast rotor or Copper rotor bars	Copper rotor bars	Copper rotor bars	Alum. die cast rotor Opt. copper rotor bars	Copper rotor bars	Copper rotor bars	Aluminum alloy rotor bars	Salient Poles	Cylindrical solid rotor for two- pole, salient pole all others	Cylindrical solid rotor, two-pole
Bearing Options	Ball & roller bearings, grease lubrication	Ball & roller bearings, grease lubrication	Ball & roller bearings, grease lubrication Sleeve bearings	Ball & roller bearings, grease lubrication Sleeve bearings	Ball & roller bearings, grease lubrication Sleeve bearings	Ball & roller bearings, grease lubrication Sleeve bearings	Antifriction bearings Tilting pad bearings	Magnetic bearings Tilting pad bearings	Sleeve Bearings	Sleeve bearings	Sleeve bearings Tilting pad bearings Magnetic bearings
Available Standards	IEC, NEMA, BS, AS, CSA, API	Based on JEC-2137 and IEC 60034-1	IEC, NEMA, BS, AS, CSA, IS, JEC	IEC, NEMA, BS, CSA, JIS, JEC, JEM, API	IEC, NEMA, BS, AS, CSA, API	IEC, NEMA, BS, AS, CSA, API	IEC, NEMA, BS, AS	IEC, NEMA, BS, AS	IEC, JEC	IEC	IEC
Major App.	Fans, Blowers, Compressors, Conveyors	Steel Mills, Aluminum Mills	Fans, Blowers, Compressors, Mills, Conveyors	Fans, Blowers, Compressors, Mills, Conveyors	Fans, Blowers, Compressors, Mills, Conveyors	Fans, Blowers, Compressors, Mills, Conveyors	Pumps	Gearless Compressors	Metal Rolling Mills Turbo Compressors (Ind. Motors Also)	Mills, Blowers, Pumps, Compressors	Blowers, Gearless Compressors



TMEIC Motors Offer Complete Coverage



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P-0022
Revised June 2021