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Motors: for all industry sectors and applications—throughout the world

Guaranteed to be the optimum solution: five standard and two motor series for special applications.

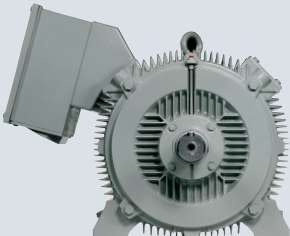
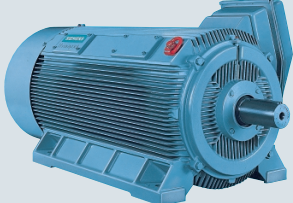
All of the Siemens motors clearly distinguish themselves by the highest degree of reliability and long lifetime. The reason for this is the uniform temperature distribution in the windings,

DURIGNIT 2000® low-voltage and MICLASTIC® high-voltage insulation using VPI technology, corrosion protection and a versatile series of monitoring and protective devices for the motor.

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versatile and are available in various cooling types and degrees of protection as well as different versions for operation in aggressive ambient conditions and hazardous locations. The high efficiency guarantees, together with the optimized cooling, low operating costs. A flexible termination technology for the supply feeder

cables and the fact that all of the components are perfectly harmonized with one another guarantee safe, reliable operation of the complete system. This is complemented by the legendary Siemens quality—from engineering through contract administration up to service.

	Standard motor series for a wide range of applications					Special motor series for special applications	
	N-compact	H-compact	H-compact PLUS	H-modul	H-moflex	Motors for compressors	Special machines
							
Output range [kW] (4-pole, 6 kV, 50 Hz)	250 – 1,000	200 – 3,000	1,100 – 5,000	5,000 – 14,000	5,000 – 35,000	250 – 1,200	2,000 – 50,000 and higher
Machine type	Squirrel-cage rotor	Squirrel-cage rotor Slipring rotor	Squirrel-cage rotor	Squirrel-cage rotor slipring rotor	Squirrel-cage rotor slipring rotor synchronous machines	Squirrel-cage rotor	Squirrel-cage rotor slipring rotor synchronous motors
Frame design	Cast frame with cooling ribs	Cast frame with cooling ribs	Cast frame, cooler assembly	Steel frame, cooler assembly	Base frame, encapsulation with integrated heat exchanger	Cast frame, cooler assembly	
Voltage range	220 V to 690 V	690 V, 2 kV to 11 kV	690 V, 2 kV to 13.8 kV	690 V, 2 kV to 13.8 kV	10 kV to 13.8 kV	2 kV to 6.6 kV	
Frequency [Hz]	50/60	50/60	50/60	50/60	50/60	50/60	
Pole number	2 to 8	2 to 12	2 to 12	2 to 24	2 to 16	2	
Type of construction	Horizontal (IM B3) Vertical (IM V1)	Horizontal (IM B3) Vertical (IM V1)	Horizontal (IM B3) Vertical (IM V1)	Horizontal (IM B3) Vertical (IM V10)	Horizontal (IM 7211)	Horizontal (IM B3) IM B5, IM B35)	
Cooling medium	Air	Air	Air or water	Air or water	Water	Air	
Cooling principle	Surface cooling with closed inner cooling circuit, open-circuit cooling	Surface cooling with closed inner cooling circuit, open-circuit cooling	Modular cooling with closed inner cooling circuit and top-mounted air-to-water or air-to-air heat exchanger, open-circuit air cooling with mounted air guide assembly	Modular cooling with closed inner cooling circuit and top-mounted air-to- water or air-to-air heat exchanger, open-circuit cooling with air guide assembly	Modular cooling with closed inner cooling circuit and air-to-water heat exchanger	Open-circuit cooling with air guide assembly	
Degree of protection/ cooling type	IP 55/IC 411, IC 416 IP 23/IC 01	IP 55 to IP 66/IC 411, IC 416 IP 23/IC 01	IP 55/IC 81W, IC 86W IP 55/IC 611, IC 616 IP 23/IC 01	IP 55/IC 81W, IC 86W IP 55/IC 611, IC 616 IP 23/IC 01	IP 55/IC 81W	IP 23/IC 01	
Shaft height (mm)	315 to 450	355 to 630	450 to 560	630 to 900	900 to 1,250	315 to 400	
Rotor design	Aluminum die-cast rotor	Aluminum die-cast rotor, copper rotor	Copper rotor	Copper rotor	Copper rotor	Aluminum die-cast rotor copper rotor	
Explosion-protected designs	EEx e II, EEx de IIC	Ex nA II, EEx e II, EEx pe II	Ex nA II, EEx e II, EEx pe II	Ex nA II, EEx e II, EEx pe II	Ex nA II, EEx pe II		
Typical mode of operation:							
Fixed-speed drive	X	X	X	X	X	X	X
Variable-speed drive, e.g. using Siemens drive converters	X SIMOVERT MASTERDRIVES	X SIMOVERT MASTERDRIVES, SIMOVERT MV	X SIMOVERT MASTERDRIVES, SIMOVERT MV	X SIMOVERT MASTERDRIVES, SIMOVERT MV	X SIMOVERT S		X SIMOVERT S, SIMOVERT I