



# CENTRIC

AutoMotive inverter technology

## Specifications Siemens 1PV513X-4WSXX induction motors

Motor type	1PV5131 - 4WS52	1PV5135 - 4WS14	1PV5135 - 4WS18	1PV5135 - 4WS24	1PV5135 - 4WS28	1PV5138 - 4WS20	1PV5138 - 4WS24
Rated power (kW)	20	45	45	61	67	70	85
Rated torque (Nm)	65	120	120	160	160	205	220
Rated DC voltage (V)	450...650	215	300	520	650	500	650
Rated current (A <sub>rms</sub> )	54	215	165	145	124	170	142
Max power (kW)	50 @ 500 V DC	105 @ 350 V DC	135 @ 450 V DC	200 @ 750 V DC	200 @ 750 V DC	200 @ 750 V DC	200 @ 750 V DC
Max torque (Nm)	120 @ 90 A <sub>rms</sub>	190 @ 280 A <sub>rms</sub>	260 @ 280 A <sub>rms</sub>	370 @ 300 A <sub>rms</sub>	450 @ 300 A <sub>rms</sub>	450 @ 300 A <sub>rms</sub>	530 @ 300 A <sub>rms</sub>
Max motor speed (rpm)	5000	10000	10000	10000	10000	10000	10000
Weight (kg)	54	86	86	86	86	113	113
Dimensions LxWxH (mm)	320x245 x245	425x245 x245	425x245 x245	425x245 x245	425x245 x245	510x245 x245	510x245 x245

## Specifications Siemens 1FV513X-6WSXX permanent magnetsynchronous generators

Motor type	1FV5135 - 6WS36	1FV5139 - 6WS24	1FV5139 - 6WS28
Rated power (kW)	90 @ 4000 rpm	145 @ 4000 rpm	135 @ 4000 rpm
Rated torque (Nm)	225	368	360
Rated DC voltage (V)	650	650	650
Rated current (A <sub>rms</sub> )	148	220	200
Max power (kW)	110 @ 650 V DC	160 @ 650 V DC	160 @ 650 V DC
Max torque (Nm)	290 @ 250 A <sub>rms</sub>	470 @ 300 A <sub>rms</sub>	540 @ 300 A <sub>rms</sub>
Max motor speed (rpm)	4000	5000	5000
Weight (kg)	86	120	120
Dimensions LxWxH (mm)	425x245 x245	560x245 x245	560x245 x245



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On request, both motors and generators can be equipped with a custom winding design (WSXX) to achieve the right power/torque characteristic for your application.

The above mentioned motors and generators meet the following general specifications:

Cooling media	Water/ glycol
Ambient temperature (°C)	-30...70
Degree of protection	IP65

On request, power/torque characteristics as well as 2D drawings for the standard motors and generators are available.