SIEMENS

SINAMICS SM120 CM

Technical Data

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Drive Features	
Output power	4–13.3 MVA
Output voltage	ALM 3.3–6.6 kV MoM M2C 3.3–7.2 kV MoM NPC 3.3–4.4 kV BrM 4.16–6.6 kV
Cooling	Water-cooled
Тороlоду	Line side: cell-based Multi-level Modular Converter (M2C), Diode Front End (DFE) or Basic Line Module Motor side: Multi-level Modular Converter or 3 Level Neutral Point Clamp (3L-NPC)
Drive quadrants	2 or 4 quadrant operation available
Rules and standards	IEC, EN, CE, EAC, CSA (on request)
Motor type	Induction motors (incl. high-speed motors) Synchronous motor for M2C (on request) Separately excited synchronous motors
Arc fault tested	Yes
Supply	Separate converter transformer (e.g. dry or oil-type) Transformerless configuration
Open/closed-loop control	Vector control with and without speed encoder
Efficiency of converter	98.5%

Input & Output Data	
Input configuration	Basic line module: 12-, 18-, 24- or 36-pulse diode rectifier Active line module: Modular Multi-level Converter (M2C)
Input voltage	BLM: 2 x 2.4 kV-6 x 1.4 kV±10% (IGBT) ALM: 2.3-6.6 kV±10% (M2C)
Input power factor	0.95
Input frequency	50 / 60 Hz±5%
Output frequency	Up to 250 Hz for NPC Up to 150 Hz for M2C
Auxiliary voltage	230 V 1 AC \pm 10%, 50 / 60 Hz \pm 5% 400 V 3 AC \pm 10%, 50 / 60 Hz \pm 5% Other power supply options available

Environmental Features		
Altitude	Up to 1000 m; from 1000 m to 4000 m with derating	
Ambient air temperature	+5 °C to +45 °C	
Noise	72 dB(A) – 77 dB(A)	
Degree of protection	IP43, IP44	

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