

SINAMICS GM150

Technical Data

siemens.com/sinamics-gm150



Drive Features

Output power	1 – 13 MVA (IGBT) 10 – 24 MVA (IGCT)
Output voltage	IGBT Air 3 AC 2.3 – 4.16 kV IGBT Water 3 AC 2.3 – 4.16 kV IGCT Water 3 AC 3.3 kV (Tandem configuration Water 2 x 3.3 kV)
Cooling	Air-cooled; water-cooled
Topology	Voltage Source Inverter (VSI)
Drive quadrants	2 quadrants
Rules and standards	IEC, CE, EAC, CSA (on request)
Motor type	Asynchronous motors Separately excited or PEM synchronous motors
Arc fault tested	Yes
Supply	Separate converter transformer (e.g. dry or oil-type)
Open/closed-loop control	Vector control with or without speed encoder
Efficiency of converter	98.5% (IGBT) 99.1% (IGCT)

Input & Output Data	
Input configuration	12-, 24- or 36-pulse diode rectifier
Input voltage	2 x 1.2 kV – 2 x 2.2 kV (IGBT) ± 10% 2 x 1.7 kV (IGCT) ± 10%
Input power factor	0.96
Input frequency	50 / 60 Hz ± 3%
Output frequency	0 – 250 Hz

Environmental Features	
Altitude	Up to 1000 m; up to 4000 m with derating
Ambient air temperature	+5 – 40 °C; up to 45 °C with derating
Noise	86 dB(A) air-cooled 73 dB(A) – 76 dB(A) water-cooled
Degree of protection	Air-cooled: IP22 / IP42 Water-cooled: IP43 / IP54