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Technical specifications (continued)

SINAMICS DC MASTER converters for 690 V 3 AC, 760 to 2 600 A, four-quadrant operation

		Type				
		6RA8086-6KV62-0AA0	6RA8090-6KV62-0AA0	6RA8093-4KV62-0AA0	6RA8095-4KV62-0AA0	6RA8097-4KV62-0AA0
Rated armature supply voltage [1]	V	690 V 3 AC (+10/–20 %)				
Rated armature input current	A	631	830	1 245	1 660	2 158
Rated supply voltage, electronics power supply	V	380 (–25 %) … 480 V (+10 %) 2 AC; I_n = 1 A or 190 (–25 %) … 240 V (+10 %) 2 AC; I_n = 2 A				
Rated fan supply voltage	V	400 V 3 AC ± 10 % (50 Hz) 460 V 3 AC ± 10 % (60 Hz)				
Rated fan current	A	0.23 [3]	0.3 [3]	1 [4]		
Air flow	m^3/h	600	1 000	2 400		
Sound pressure level [2]	dB (A)	64.5		75.6		
Rated field supply voltage [1]	V	480 V 2 AC (+10/–20 %)				
Rated frequency	Hz	45 … 65				
Rated DC voltage [1]	V	725				
Rated DC current	A	**760**	**1 000**	**1 500**	**2 000**	**2 600**
Overload capability	x × I_n	1.8				
Rated power	kW	551	725	1 088	1 450	1 885
Power loss at rated DC current	kW	2.90	3.96	6.67	8.16	10.30
Rated DC field voltage [1]	V	max. 390				
Rated DC field current	A	**30**	**40**			
Normal ambient temperature in operation [5]	°C	0 … +40				
Storage and transport temperature	°C	–40 … +70				
Installation altitude above sea level [5]		≤ 1 000 m for rated DC current				
Dimensions						
• Width	mm	268		453		
• Height	mm	700	785	883		
• Depth	mm	311	435	505		
Weight, approx.	kg	42	78	155		185

Note:
Detailed dimension drawings in the PDF and DXF formats are available on the DVD-ROM supplied with this catalog and in the Internet under www.siemens.com/sinamics-dcm (information material).

[1] The armature/field supply voltage may be lower than the rated armature/field voltage (set via parameter; in the case of units with a 400 V rated voltage, an input voltage of up to 85 V is permitted). The output voltage decreases accordingly. The specified DC output voltage can be maintained up to an undervoltage of 5 % of the line supply voltage (rated armature/field supply voltage).

[2] Fan noise for a unit installed in an IP20 electrical cabinet (door closed, 50 Hz operation or operation at 24 V DC for units with an internal supply).

[3] For fan motor type R2D220-AB02-19 in units 6RA8081, 6RA8085, and 6RA8087 with a rated voltage of 400 V or 575 V, UL systems require a Siemens motor circuit-breaker of type 3RV1011-0DA1 or 3RV1011-0EA1, set to 0.3 A.

[4] For fan motor type RH28M-2DK.3F.1R in units 6RA8090, 6RA8091, 6RA8093, and 6RA8095 with a rated voltage of 400 V or 575 V, UL systems require a Siemens motor circuit-breaker of type 3RV1011-0KA1 or 3RV1011-1AA1, set to 1.25 A.

[5] Derating factors for higher temperatures and installation altitudes, see page 3/8.