



SIMOREG 6RA70 DC MASTER SIMOREG CCP

Technical data

Type	6RA70□□-6FC00-0			6RA70□□-6KC00-0		
	85	91	95	90	95	
Rated voltage	V	460 (+15 % / -20 %)			690 (+10% / -20%)	
Rated current	A	600	1200	2000	1000	2000
Live area that can be covered ¹⁾	A	up to 600	up to 1200	up to 2000	up to 1000	up to 2000
Rated supply voltage electronics power supply	V	2 AC 380 (-20 %) to 460 (+15 %); I _n = 1 A or 1 AC 190 (-20 %) to 230 (+15 %); I _n = 2 A				
Rated frequency	Hz	45 to 65				
Power loss	W	100	100	100	100	100
Operational ambient temperature	°C	0 to 55				
Storage and transport temperature	°C	-25 to +70				
Installation altitude above sea level	m	≤ 1000				
Environmental class		3K3 accord. to DIN IEC 60 721-3-3				
Degree of pollution		2 accord. to EN 60178 ²⁾				
Degree of protection		IP00 accord. to DIN EN 60529				
See dimension drawings on Page		9/17				
Weight (approx.)	kg	35	35	35	35	35
Fuses for connections 1U1, 1V1, 1W1 and 1C1, 1D1		3NA3 365-6 1 fuse per conn.	3NA3 365-6 1 fuse per conn.	3NA3 365-6 2 fuse in parall. per conn.	3NA3 365-6 1 fuse per conn.	3NA3 365-6 2 fuse in parall. per conn.
Fuses for connections 2U1, 2V1, 2W1 (10 A line protection)	A	Diazed 5SD604				

Derating as a function of installation altitude:

Units can operate at altitudes of up to 4500 m when the electronics is supplied with voltages of 460 VAC line-to-line (maximum 300 VAC to earth). The maximum permissible voltage up to 5000 m is 400 VAC line-to-line (maximum 230 VAC to earth).

At higher altitudes, or at higher voltages, only basic insulation is afforded rather than "Protection by electrical separation".

Standards

EN 50178		Electronic equipment for use in power installations
EN 60068	Part 2 A93	Basic environmental testing procedures; Tests
EN 61800	Part 1	Adjustable speed electrical power drive systems: General requirements. Rating specifications for low voltage adjustable speed d.c. power drive systems
EN 60146	Part 1	Semiconductor converters; general requirements and line commutated converters
EN 60204		Machine directive
EN 60529	Part 4-2 A12.01	Degrees of protection provided by enclosures (EN 60529: 1991)
EN 60721		Classification of environmental conditions
EN 61140		Protection against electric shock
	Part 1 A08.03	Classification of electrical and electronic equipment
EN 61800	Part 3	Adjustable speed electrical power drive systems – Part 3: EMC product standard including specific test methods
DIN VDE 0110	Part 1 and 2 A01.89	Insulation coordination for equipment within low-voltage systems – Coordination of high-frequency voltage stress
SN 36350		Environmentally compatible product design (Siemens Standard)
UL 508 C		Power conversion equipment

1) The current range that can be covered corresponds to the actual rated current of the 6RA70 SIMOREG DC MASTER (display parameter r072.02). If the rated current is reduced by parameter P076.01 and/or P067 the resulting lower value is valid.

Thus the CCP can then be used for a SIMOREG DC MASTER with a rated current higher than 2000 A according to its rating plate (necessary, for example, to obtain partly longer required overload times), if the actual rated current that has been

parameterized does not exceed 2000 A. The possible overload capability with 1.8 times the actual rated current can be additionally utilized in the process.

2) Definition of degree of pollution 2: Under normal conditions, only non-conductive pollution occurs. Occasionally, pollution may become conductive for a short period of time when the electronic equipment is not in operation.