

Product data sheet

Product type

REVCON EDC

REVCON Rectifier unit EDC



Product description

Product type	REVCON Rectifier unit EDC
Product specification	REVCON DC-power supply unit incl. precharge circuit and incl. mains commutation choke for DC-bus power supply of one or more drive controller
[I _N] Nominal current	200-1200A
[U _N] Nominal voltage	400V,460V or 500V
Mains frequency	40-60Hz
Cos phi	1 (100% of the nominal current)

Data

Number of phases	3-phase
Mains voltage	U _N +10%/-15%
Frequency	F _N +/-10%
Max. dynamic overload (4s)	120%
Efficiency	>98,0%
Electrical connection AC	L1/L2/L3 terminals
Electrical connection DC	+/- terminals
Electrical connection fan	L/N terminals (from configuration 2/700)
Standards and permission	Low voltage directive 2006/95/EG EMC directive 2004/108/EG EN 60529 Degrees of protection provided by enclosures (IP code) EG- Directive Machinery 2006/42/EG

Operating conditions

Degrees of protection IP code	IP 20
Humidity load	Humidity class F without condensation 5.....85% - class 3K3
Valid Temperature range at operation	5...40°C without power reduction <40°C.....55°C with power reduction 3% pro °C
Valid Temperature range at storage / transport	- 25°C...+70°C Transport -25°C...+55°C Storage
Altitude of site	1000m without power reduction > 1000m...4000m with power reduction 5% pro 1000m

Component part

Option	Fuse holder
Specification	Fuse holder with fuses for the mains side fuse protection
Option	IL (Isolation lacquer)
Specification	To protect the electronic components of the power feedback unit from pollution of the cooling air, all printed circuit boards may be coated with an isolating lacquer.
Option	RFI-Filter
Specification	3-phase RFI-filter for the safe and high efficient use of REVCON EDC rectifier modules.
Standards and permission (operation with EDC)	EMC directive 2004/108/EG EN 61000-6-2:8/2005 EN 61000-6-3: 1/2007 EN 61000-3-3: 9/2008 EN 60529 Degrees of protection provided by enclosures (IP code)
Option	RHF-RA module
Specification	Harmonic line filter for the reduction of the mains disturbances in connection with a REVCON rectifier module. The total harmonic distortion (THD I) of the mains current is reduced at nominal operating point of ca. 40% to <16% with this filter.
Option	EST
Specification	Synchronisation terminals for the connection of a RHF-RA harmonic line filter with phase interchanging protection.
Standards and permission (Operation with RLD)	IEC/EN 61000-3-2 IEC/EN 61000-3-12 IEC/EN 61000-3-4 IEC/EN 61000-2-2 IEC/EN 61000-2-4 IEEE 519 G5/4
Option	Overvoltage suppressor
Specification	If the power feedback unit (as well as a controller) is connected to ungrounded mains supply, it must only run if it is connected via an isolating transformer or if the plant is protected by overvoltage suppressors.
Option	External operating and signalling panel
Specification	When mounting the device inside a cabinet it is possible to mount an operator panel in the door of the cabinet by using the external operating and signalling panel.