



### Product description

Product type	Power feedback module REVCON RHD
Product specification	Power feedback module REVCON RHD with IGBT-power section for the safe and low-loss use of the braking energy of speed-controlled 3-phase motor
Version	RHD B0 with internal mains inductance RHD B1 with internal mains inductance and integrated harmonic filter RHD D0 with internal mains inductance and additional capacity RHD D1 with internal mains inductance and additional capacity and integrated harmonic filter
[P <sub>N</sub> ] Nominal Power	4-250kW
[U <sub>N</sub> ] Nominal voltage	230V/400V/460V/500V/690V
[F <sub>N</sub> ] Mains frequency	40-60Hz± 10%
Cos phi	1 (100% of the nominal current)

### Data

Number of phases	3-phase
Mains voltage and frequency	U <sub>N</sub> +10%/-15% F <sub>N</sub> +/-2%
Max. dynamic overload (4s)	120%
Efficiency	>98,0%
Duty cycle ED	100%
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 EN 61000-3-4 EMC directive 2004/108/EG EMC directive EN 61000-3-2:2010-3 EMC directive EN 61000-3-12:2005-9 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	RFI-Filter
Specification	3-phase RFI-filter for the safe and high efficient use of REVCON RLD power feedback modules.
Standards and permission (operation with RHD)	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 power feedback 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.
Standards and permission (operation with RHD)	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	EST
Specification	Synchronisation terminals for the connection of a RHF-RA harmonic line filter with phase interchanging protection.
Option	Fuse holder
Specification	Fuse holder with fuses for the mains side fuse protection
Option	IFP (current control)
Specification	The current (limiting) control of the power feedback unit is able to avoid overcurrent-tripping of the unit caused by short time generator overload on the DC-bus.
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	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.