



Product description

Product type	Power feed and feedback module REVCON RFE
Product specification	Power feed and feedback module REVCON RFE with IGBT-power section for the safe and low-loss use of the braking energy of speed-controlled 3-phase motor with additional supply function incl. precharge circuit for the DC-bus of one or more drive control systems.
Version	RFE B2 with internal mains inductance without precharge RFE D2 with internal mains inductance and additional capacity without precharge RFE B3 with internal mains inductance and precharge RFE D3 with internal mains inductance and additional capacity and precharge
[P _N] Nominal Power	17-300kW
[U _N] Nominal voltage	230V/400V/460V/500V/690V
[F _N] Mains frequency	40-60Hz± 10%
Cos phi	1 (100% of the nominal current)

Data

Number of phases	3-phase
Mains voltage and frequency	U _N +10%/-15% F _N +/-10%
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 RFE power feed and feedback modules.
Standards and permission (operation with RFE)	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 feed and 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 RFE)	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	Option POF (Pulse lock without error message)
Specification	To switch-off the feedback operation at standby operation at maintenance of the supply operation the option POF can be chosen. This function enables a lowering of the power loss at standby operation of 120W to <30W.
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.
Option	Option additional supply module REVCON EDC
Specification	If there is for a certain application indeed enough feedback power but not enough supply power of the power feed- and feedback unit, it is possible by means of an individual to dimensioning additional supply module to reach the necessary complete supply power. This option is not retrofitable.