

Variable Frequency Drive

Compact solutions for hazardous area



From one source - For your efficiency

For more than 80 years, R. STAHL has been setting trends in the field safety technology for hazardous areas. Focus of the business activities is on customized, explosion-protected system solutions. Our specialty is the combination of several types of protection and different enclosures. R. STAHL Technology Group offers **system solutions for many business sectors** like oil & gas, the pharmaceutical industry, the chemical industry, shipbuilding and marine equipment, onshore as well as offshore, for use all over the world.

Your Advantages:

Performance

- Preconfigured powerful 7.5 kW with the smallest possible enclosure size
- Other power ratings on request
- Extreme ambient temperatures up to 55°C possible without derating
- PLC functionality

Handling

- Technical mature solutions from single supplier
- Reduces the installation expenditure for equipment modernization
- Easy retrofit of existing systems
- Maximum availability as a result of optimum heat dissipation
- Various communication modules available
- Ready for installation next to the motor

Examples of application

- Centrifuges
- Textile machinery
- Hoisting / Conveyer
- Pumps
- Heating, ventilation and air-conditioning systems (HVAC)



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Application example



Variable Frequency Drive with Cold Plate

Main characteristics


- Low maintenance
- For Ex d and Ex e motors
- PTC motor protection pursuant to ATEX
- EMC class C2 as standard
- Easily expandable by motor choke and mains filter
- No fans or rotating parts
- Suitable for offshore application
- Safety Integrity Level SIL categories 1-3
- Energy saving potential compared to direct drive
- Innovative and compact cold plate design for easy handling and integration
- Available options: inspection window, Ex e connection chamber, alternative coatings

Please contact the R. STAHL experts via integrated.solutions@stahl.de - they are looking forward to receiving your inquiry.

Technical design

Marking

IECEX
Gas explosion protection Ex d IIB T4 / Ex de IIB T4
Group IIC on request

Europe (ATEX)
Gas explosion protection  II 2 G Ex d IIB T4 / e II 2 G Ex de IIB T4
Dust explosion protection available on request
Installation Zone 1 und 2

Certificates

IECEX IECEx KEM 07.0051 X
Europe (ATEX) KEMA 01 ATEX 2145 X

Ambient conditions

Ambient temperature -40 ... +55 °C
Degree of protection IP66

Mechanical data dimensions width x height x depth (mm):
590 x 760 x 414 (including mounting rails)

Weight ca. 170 kg

Enclosure material

Flameproof enclosure aluminium (seawater resistant pursuant to EN 13195-1),
optionally also available in stainless steel



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