SE-i1 MODULE FOR
COMPACT SCREW COMPRESSORS

THE HEART OF FRESHNESS
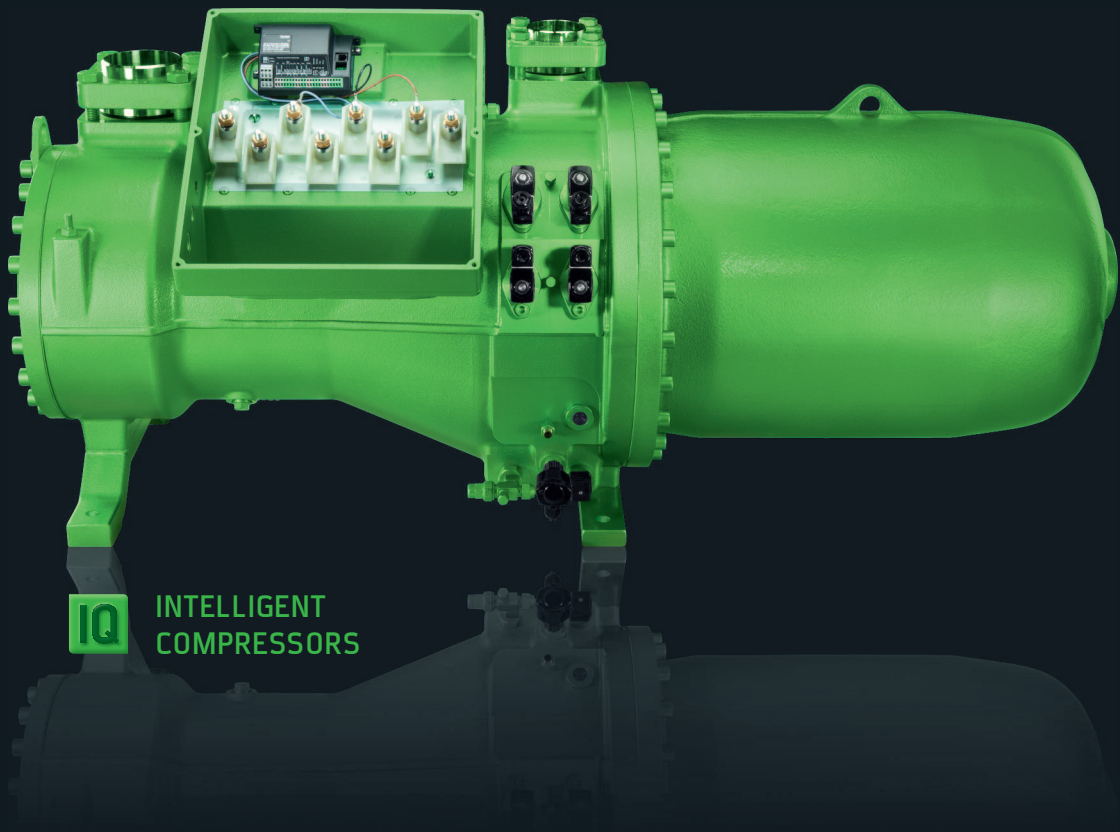
IQ INTELLIGENT
COMPRESSORS

50 Hz // SF-200-2 EN

KEEPING AN EYE ON THE WHOLE COMPRESSOR! COMPREHENSIVE COMPRESSOR MONITORING AND EASY SYSTEM DIAGNOSTICS

The new, innovative SE-i1 motor protection device offers extended motor protection functions and comprehensive application limit monitoring with multistep warning and alarm messages. It therefore continuously monitors all essential operating parameters of the compressor and stores them in a data log. Using the built-in Modbus interface, the data can easily be transferred to the master control system or the BEST software from BITZER. This enables the service technician to carry out quick system diagnostics and facilitates fault diagnostics and system maintenance.

MOTOR PROTECTION

The SE-i1 provides all basic functions known from SE-E1: temperature, rotation direction and phase failure monitoring.

DATA LOG

The core element is the integrated data log. All alarm events, temperature and pressure values are recorded. Statistics on compressor runtime and capacity utilization are compiled.

ENVELOPE MONITORING

Tailored to the BITZER CS compressors, the built-in application envelope protection secures less downtime and fewer service calls. It helps to keep the compressor running within the recommended limits.

WARNINGS

The early warning system communicates messages before faults appear, e.g. short cycling warning, to enable countermeasures.

INTEGRATED COMMUNICATION

With integrated Modbus communication, fewer I/Os and fewer features are necessary in the system controller. Direct communication to BEST PC tool via BEST Converter.
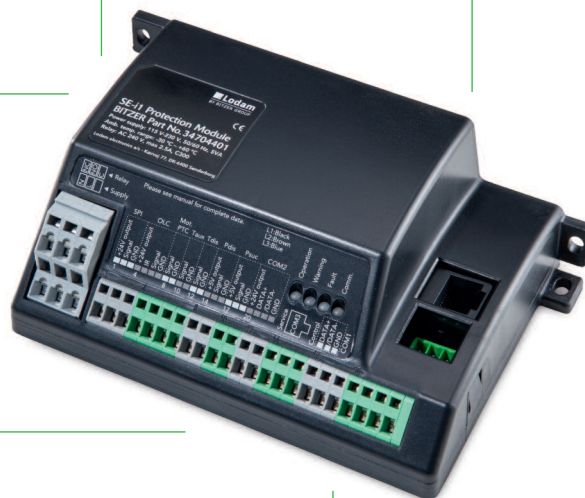
OIL SYSTEM MONITORING

Known functions from SE-C1/2 are integrated in the SE-i1. Quicker recognition of oil system faults are possible from diagnostics messages.

SIMPLE SYSTEM INSTALLATION

Less cables between compressor and system controller. Cables from pressure and temperature sensors go directly to SE-i1 and data communication via Modbus to the system controller.