



## MOTOR SOFT STARTERS



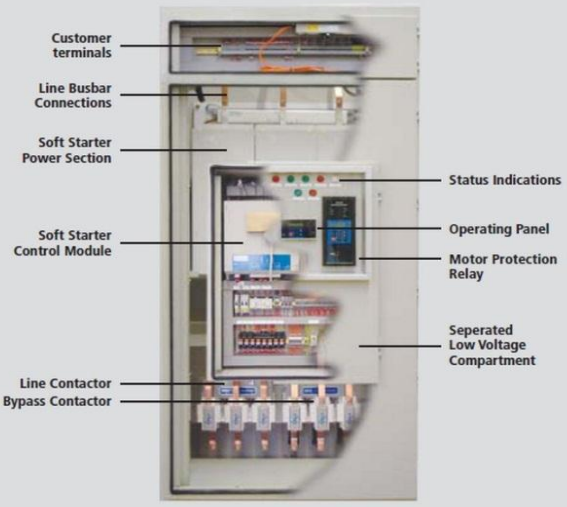
Voltage Range 220 – 15 000 V | Current Range 1 – 3 500 A

- Medium voltage soft starters
- Low voltage soft starters
- Variable frequency drives
- EMC-technology
- Medium voltage contactors
- Low voltage contactors
- Vacuum circuit breakers

### INTERIOR VIEW ISA-HD

This third generation, fibre optic controlled, Medium Voltage Soft Starter is designed for use with standard asynchronous and synchronous motors. The ISA-HD is a highly sophisticated digital soft starter which ensures smooth, stepless acceleration and deceleration, eliminating current and mechanical shocks on motor and load. The ISA-HD may be supplied as a chassis or enclosed type with a multiple range of options.

- Options**
- | Motor protection relay (MSR-HD)
  - | High protection level (IP54)
  - | RS 485 Modbus or Profibus
  - | Analogue output
  - | Cabinet heater
  - | Incoming cabinet with fuses or circuit breaker
  - | Special parameters for synchronous motors
  - | Multi motor start
  - | Marine approvals



<b>MEDIUM VOLTAGE SOFT STARTERS</b>	Medium voltage technology ISA-HD
<b>LOW VOLTAGE SOFT STARTERS</b>	Low voltage technology ISA-D and ISA-D5 ISA-A and ISA-A2P ISA-B and ISA-B2P
<b>VARIABLE FREQUENCY DRIVE</b>	ISA-DRIVE-VT ISA-DRIVE-PLUS ISA-DRIVE-E ISA-DRIVE-B and ISA-DRIVE-F
<b>DC INJECTION BRAKE</b>	IMB
<b>THYRISTOR POWER SUPPLY</b>	TSE
<b>EMC-TECHNOLOGY</b>	Line filters Line chokes
<b>CONTACTORS</b>	Contactors and motor protection relays Vacuum contactors and circuit breaker
<b>SWITCHGEAR SOLUTIONS</b>	Special solutions; medium voltage OEM serial production; low voltage

