To guarantee the newest technology and standards we use a modern laboratory, UL certified, to provide continuous improvement of the technical solutions and materials used.

- high quality, due to modern production methods
- flexible fabrication with high tech manufacturing cells
- "Certified Factory" ISO 9001 / UL laboratory / CCC inspection
- "Environment Certificate" All used materials are for recycling and are eco-friendly

At its manufacturing site in Heidelberg ABB STOTZ-KONTAKT has invested in the newest technology. Our efforts paid off since we now proudly run a reliable production line with 100% test equipment for output of tested good products. Modern, modular production cells guarantee order flexibility, for 1 or 1000 pieces. The MS116 production line is equipped with ABB’s newest installation concept, "wireless proximity switches": a highly innovative sensor solution for flexible production cells which provides us with high availability to supply our customers always on time.

ABB Motor Protection for use:

- with field bus connection
- in cabinets for stand alone solutions
- for industrial plants, machines, industry, building systems, ventilation

ABB Motor Protection for use in Everyday Use

Motor Protection Is a Trustful Function

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ABB STOTZ-KONTAKT with its renowned experience in the field of future oriented motor protection stands for high safety.

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ABB STOTZ-KONTAKT GmbH
P. O. Box 10 16 80
69006 Heidelberg
Germany
Telephone: +49 (0) 62 21 / 701-0
Telefax: +49 (0) 62 21 / 701-729
Email: desst.info@de.abb.com
http://www.abb.de/stotz-kontakt

ABB Motor Protection in Everyday Use

ABB Motor Protection for use in:

- in cabinets
- with field bus connection
- for stand alone solutions

ABB Motor Protection for use in:

- industrial plants, machines, industry, building systems, ventilation

ABB Motor Protection is a Trustful Function

ABB Motor Protection in Everyday Use

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ABB STOTZ-KONTAKT production site at beautiful Heidelberg

Motor Protection

- Protecting your valuable production assets.
- Motor Protection devices are your safeguard.
- MS116 and the other members of our family for the protection of motors up to 7.5 kW.

Motor Protection

- The modular ABB field bus concept is one of the most future-oriented systems providing high flexibility and more customer benefits to make applications and changes in plants easier, safer and more flexible.
- The concept allows also customer developments independent of any PLC system.

Connection with FieldBusPlug

Manual Motor Starters

- Motorstarter type: MS116, MS325, MS45x, MS49x
- I³ in A
  - MS116: 16/25
  - MS325: 50/100
  - MS45x: 25/50
  - MS49x: 25/50/100
- Trip class
  - MS116: 10/20
  - MS325: 10/10
  - MS45x: 20/10
  - MS49x: 10/20
- Magnetic type
  - MS116, MS325: UL 508 type E
  - MS45x, MS49x: Magnetic type only

Intelligent Motor Protection and Control Unit UMC22-FBP

- Field Bus Connection for Control Gear Products
- FBP devices: Starter MSD, MSR, Motor Controller UMC, Softstarters, MCCB...
- With field bus neutral interface

Accessories

- Remote Control Unit RC325
- Modular System smissline-S
- Power Distribution Busbar System
- Enclosures for Wall Mounting and Cubicle Mounting Kits

Wiring Accessories for Starter Combinations

- ATEX approved (Ex)
- Economical product, easy to handle
- Automatic-, remote- or manual reset
- Indication and field bus connection
- Different control functions selectable
- 6 digital inputs 24 V and 3 relay outputs
- Different control functions selectable
- Indication and field bus connection
- Diagnosis and monitoring functions
- Connection of transformer for higher current ranges
- E-diag outputs 24 V and 3 relay outputs
- Low energy let-through values for optimized cable protection
- High safety and quick installation
- Adapters to build starter combinations
- Coordination tables type 1/2 available
- Coordination system
- Connectors, plug & play motor starter concept
- Standardized busbar system up to 800 A
- Accessories and products for power distribution
- Easy and safe wiring, touch proofed
- Standard adapter to create starter combinations
- Easy and quick installation
- Modular kits, ready for quick installation
- Adapters for control gear products and MCB available
- Simple and safe wiring
- Safe and quick installation
- Power distribution, cubicle mounting kits
- High protection class IP65
- Comfortable wiring and mounting
- High and quick installation

Overload Relays

- Thermal Overload Relays, up to 800 A
- Electronic Overload Relays, up to 800 A/1200 A

Thermistor Motor Protection Relays

- Based on temperature measuring by PTC sensors
- Different versions and functions available
- Automatic, remote or manual reset
- Automatic and manual functions
- ATEX approved (Ex)

Field Bus for Motor Protection

- You can now reliably wire a safe installation easier and more economically as ever before.
- Wide assortment of accessories to satisfy customer needs.
- Besides auxiliary contacts, under/overload relays, short releases or busbars, ABB also offers a wide assortment of accessories to satisfy customer needs.
ABB: Your Competence Center for Motor Protection

- Fusible protection
- Provides for high safety and reliability in the planning and use of electrical installations
- Saves space due to the small dimensions of MS116
- Increases availability of machines and plants
- Saves money in maintenance

MS116, economic, small

In 1988 ABB STOTZ-KONTAKT developed the first MCB and is well experienced in the production of circuit breakers and electrical protection devices. 1998 saw the advent of motor protection devices. ABB has rounded off its manual motor starter family for the protection of motors up to 7.5 kW with the new MS116. Now ABB STOTZ-KONTAKT offers motor protection devices from 0.1 A up to 100 A with short circuit capacity up to 100 kA.

Thermistor Motor Protection Relays

- based on temperature measuring by PTC sensors
- different versions and functions available
- automatic - remote - manual reset
- relay output, easy to handle
- ATEX approved (Ex)

Intelligent Motor Protection and Control Unit UMC22-FBP

- integrated motor control and protection
- current range 0.24 – 63 A with one device
- connection of transformer for higher current ranges
- diagnosis and monitoring functions
- indication and field bus connection
- E-digital inputs 24 V and 3 relay outputs
- different control functions selectable
- labelling and field bus interface

Intelligent Motor Protection and Control Unit UMC22-FBP

- 6 digital inputs 24 V and 3 relay outputs
- diagnosis and monitoring functions
- indication and field bus connection
- E digital inputs 24 V and 3 relay outputs
- different control functions selectable
- labelling and field bus interface
- E digital inputs 24 V and 3 relay outputs
- different control functions selectable
- labelling and field bus connection

Field Bus Connection for Control Gear Products

- FBP devices: Starter MS25, MSR, Motor Controller UMC, Softstarters, MCCBs ... with field bus neutral interface
- Communication with FieldBusPlug

Remote Control Unit RC325

- plug and play motor starter concept
- up to 200 A, 320 A max. length up to 1080 mm
- modular kits, ready for quick installation
- coordinated system
- adapters for control gear products and MCBs available
- easy and quick wiring, touch panel

Modular System smisline-S

- terminal block feature for easy field wiring installation
- accessories for power distribution
- standard adapter to create starter combinations

Power Distribution Busbar System

- standard busbar systems up to 800 A
- accessories and products for power distribution
- standard adapter to create starter combinations

Enclosures for Wall Mounting and Cubicle Mounting Kits

- high protection class IP66
- comfortable wiring and mounting
- easy and quick installation
ABB: Your Competence Center for Motor Protection

- **Fuseless protection**
- Provides for high safety and reliability in the planning and use of electrical installations
- **Saves space** due to the small dimensions of MS116
- **Saves money in maintenance**

In 1928 ABB STOTZ-KONTAKT developed the first MCB and is world experienced in the production of circuit breakers and electrical protection devices. ABB has rounded off its manual motor starter protection devices with the new MS116. Now ABB STOTZ-KONTAKT offers motor protection devices from 0.1 A up to 100 A with short circuit capacity up to 100 kA.

**MS116**, economic, small

**MS325**, low energy let-through, limit functions, panel design

**MS450 ... MS497**, low-powerful, up to 100 A, up to 50/100 kA

**Motor Protection**

Protecting your valuable production assets.

Motor Protection devices are your safeguard

This is where we at ABB share our experience:

- **Phase failure**
- **Faults in cable or wiring**
- **Short circuit**
- **Overload**

Your drives must be protected against:

- A possibility of a fault within the installation, so that hazardous situations are avoided and work is secured
- A more economical motor protection.

Thus, MS116 represents your gateway to a more economical motor protection.

With electrical drives and motors there is always the possibility of a fault within the installation, so that hazardous situations are avoided and work is secured.

Therefore, in case of faults or damage, every motor needs a reliable protection.

The modular ABB field bus concept is one of the most future-oriented systems providing a high flexibility and more customer benefits to make applications and changes in plants easier, safer and more flexible. ABB offers a wide variety of field bus products. The concept allows also customer developments independent of any PLC system.

**Manual Motor Starters**

- **Motorstarter type**
  - MS116
  - MS325
  - MS45x
  - MS49x
- **U/A**
  - 16/10
  - 25
  - 50/100
  - 25/100
- **Ie/A**
  - 16
  - 25
  - 50
  - 100
- **Trip setting class**
  - 10
  - 10
  - 20
  - 20
- **Magnetic type only**
  - UL 508 type E

**Overload Relays**

- **Thermal Overload Relays**, up to 800 A
- **Electronic Overload Relays**, up to 800 A/1200 A

**Thermistor Motor Protection Relays**

- Based on temperature measuring by PTC sensors
- Different versions and functions available

**Intelligent Motor Protection and Control Unit UMC22-FBP**

- Integrated motor control and protection
- Current range 0.24 – 63 A with one device
- Connections of transformer for higher current ranges
- E-digital inputs 24 V and 3 relay outputs
- Different control functions selectable
- Diagnosis and monitoring functions
- Indication and field bus connection

**Field Bus Connection for Control Gear Products**

- **FBP devices**
  - Starter MS25, MSR, Motor Controller UMC, Soft starters, MCCB...
  - with field bus neutral interface

**Remote Control Unit RC325**

- **RC325 + MS325** a compact starter, up to 100/200 A, 50/100 kA, length up to 1080 mm
- **RC325 + MS450** a compact starter, up to 100/200 A, 50/100 kA, length up to 1080 mm
- **RC325 + MS497** a compact starter, up to 100/200 A, 50/100 kA, length up to 1080 mm

**Modular System smissline-S**

- **Plug & play motor starter concept**
- **up to 200 A, 50/100 kA, max. length up to 1080 mm**
- **modular kits, easy for quick installation**
- **coordinated system**
- **up to 1,000,000 switching operations/lifetime**

**Power Distribution Busbar System**

- **standard busbar systems up to 630 A**
- **accessories and products for power distribution**
- **standard adapter to create starter combinations**

**Enlosures for Wall Mounting and Cubicle Mounting Kits**

- High protection class IP65
- Suitable for wall mounting and cubicle mounting
- Easy and quick installation

**Wiring Accessories for Starter Combinations**

- **Adapters to build starter combinations**
- **Coordination tables type 1/type 2 available**
- **High safety and quick installation**

**ABB STOTZ-KONTAKT production site at beautiful Heidelberg**
To guarantee the newest technology and standards we use a modern laboratory, UL certified, to provide continuous improvement of the technical solutions and materials used.

- short circuit tests up to 100 kA
- tests for further developments
- hard tests for temperature ratings and continuous loads
- long time tests
- certification tests

Every motor failure causes a production stop and costs for service. A cable cut, phase failure, short circuit or overload can destroy the motor or pose danger for the whole production line and for the people who work there.

This is the reason why a reliable motor protection is very important and thus will work for you as a safe-guard.

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- flexible fabrication with high tech manufacturing cells
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- ISO 9001 / UL laboratory / CCC inspection
- "Environment Certificate"

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ABB Motor Protection in Everyday Use

ABB Motor Protection for use in:
- in cabinets with field bus connection
- for stand alone solutions
- industrial plants
- machines
- industry
- building systems
- ventilation

ABB Motor Protection for use:
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- machines industry building systems
- in cabinets for stand alone solutions
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