

Connection bars

For contactors and circuit breakers

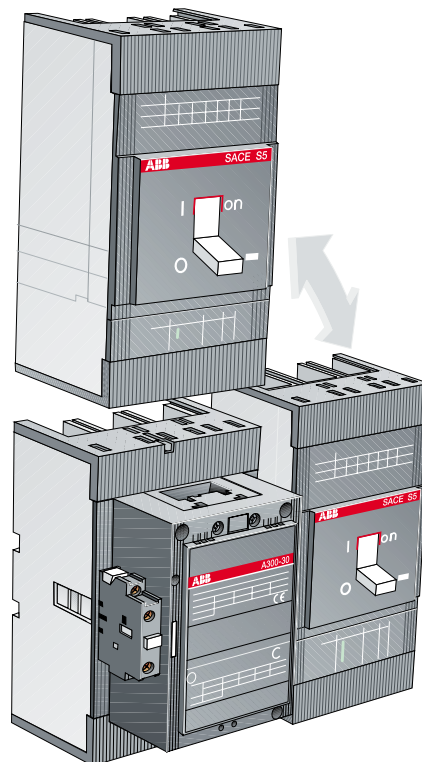
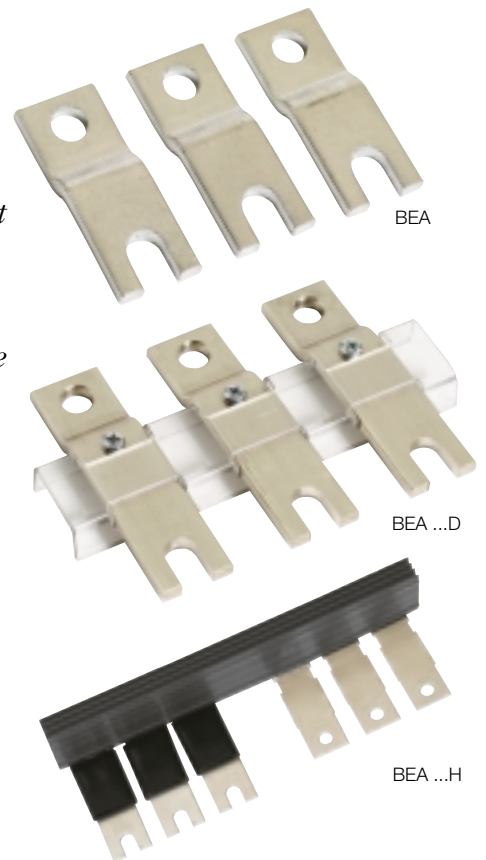


Connection bars providing optimal solutions

In addition to its aesthetical design, excellent performance and very wide range of functions, ABB's A-line contactors are compact and perfectly co-ordinated with other ABB Low Voltage Products. The modular concept saves space and permits great flexibility in design. This results in a very attractive appearance of the complete installation.

ABB's connection bars are key elements of this flexible and compact solution permitting the combination to be connected vertically or horizontally. Further more they offer significant savings in installation time and assembly costs.

ABB's connection bars provide a fully co-ordinated system and the best total solution.



Minimal vertical space between units

Compact solution

Ease of use and installation

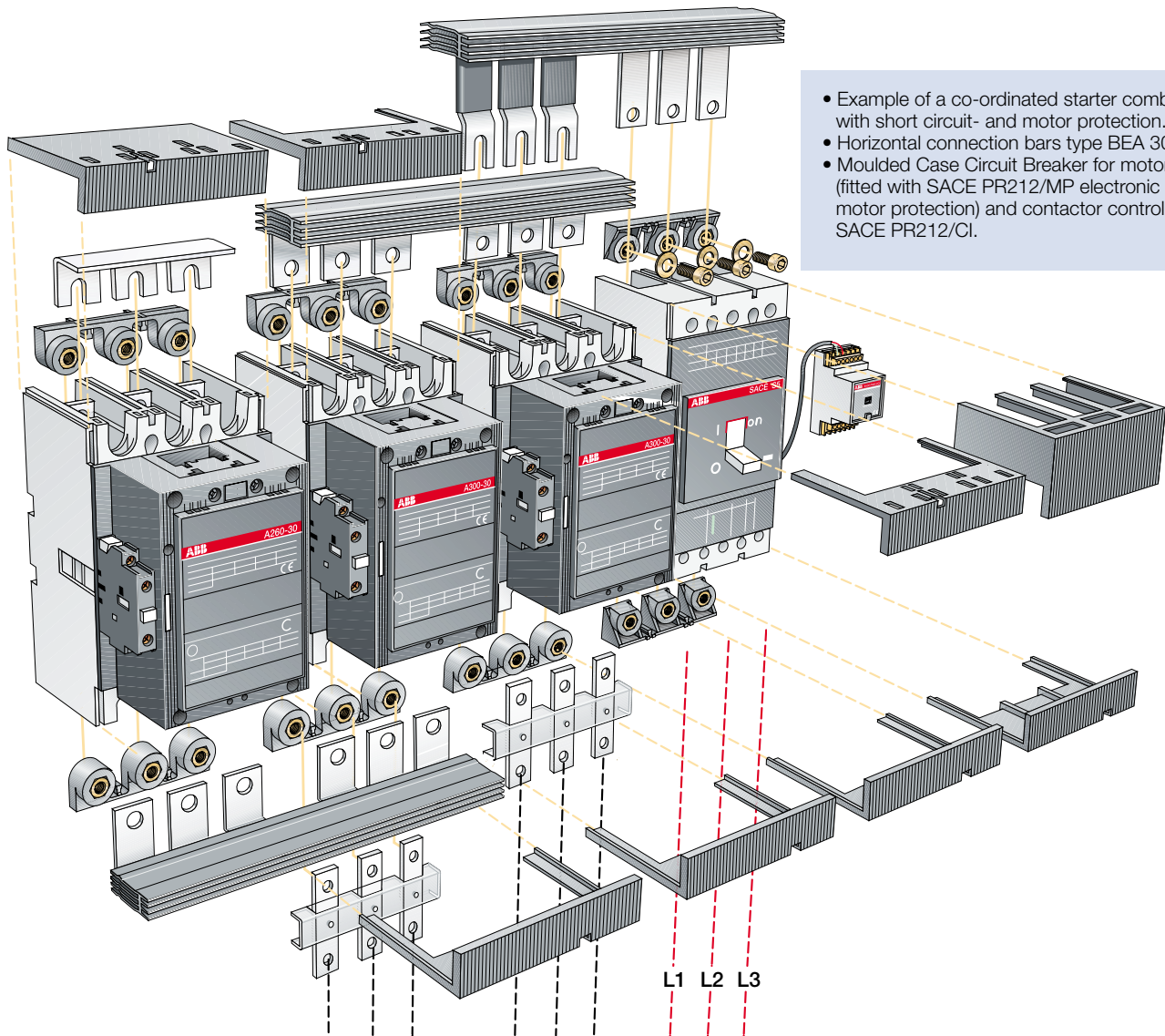
Savings in time and cost – less wiring and shaping of busbars

Fully compliant with type 2 co-ordination requirements of IEC 947-4-1

Suitable for different starter combinations

Protection class IP 20 with terminal shrouds

Horizontal or vertical mounting

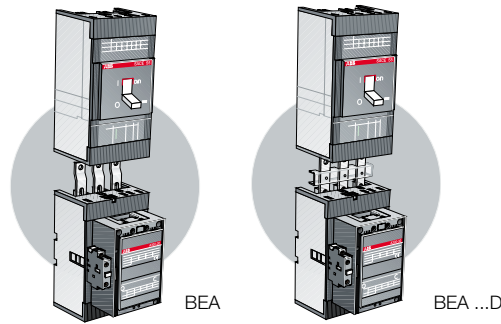


- Example of a co-ordinated starter combination with short circuit- and motor protection.
- Horizontal connection bars type BEA 300H/S5.
- Moulded Case Circuit Breaker for motor protection (fitted with SACE PR212/MP electronic release for motor protection) and contactor control unit, SACE PR212/CI.

Also shown:
 Available accessories such as terminal shrouds, busbar kits for starter combinations and terminal extensions.
 Note: Space for mechanical interlock.

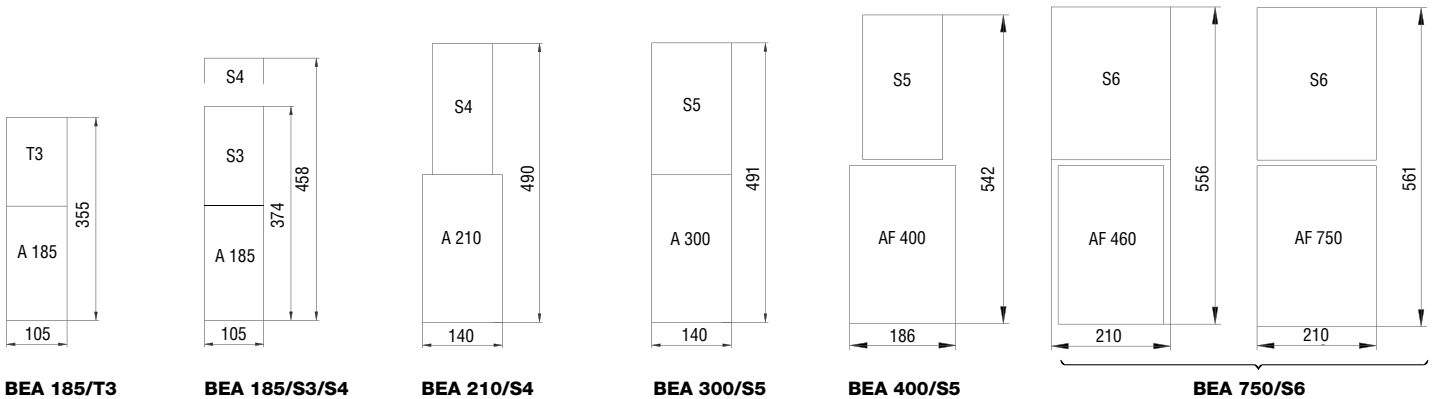
For more information about the ABB Motor Control offer including ordering information and co-ordination tables, please enter www.abb.com/lowvoltage or contact your local ABB sales office.

Vertical assembly



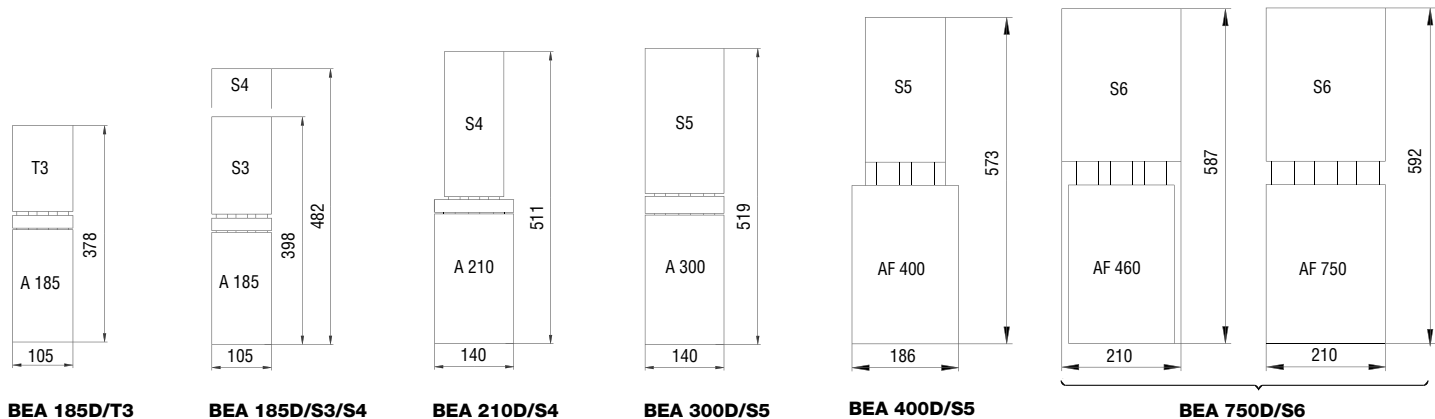
Connection bars between Contactor and Moulded Case Circuit Breaker, vertical assembly.

Type	Order code	Contactors	MCCB
BEA 185/T3	1SFN 08 4706 R1003 *Available March 2002	A 145...A 185	T3
BEA 185/S3/S4	1SFN 08 4706 R1000	A 145...A 185	S3, S4
BEA 210/S4	1SFN 08 5106 R1001	A 210	S4
BEA 300/S5	1SFN 08 5106 R1000	A 210...A 300	S5
BEA 400/S5	1SFN 08 5706 R1000	AF 400...AF 460	S5
BEA 750/S6	1SFN 08 6106 R1000	AF 400...AF 750	S6

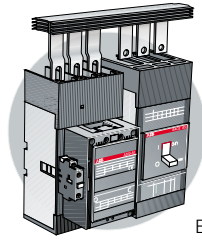


Connection bars between Contactor and Moulded Case Circuit Breaker with control wire terminals, vertical assembly. Also suitable when using busbar kits for starter combinations.

Type	Order code	Contactors	MCCB
BEA 185D/T3	1SFN 08 4706 R1004 *Available March 2002	A 145...A 185	T3
BEA 185D/S3/S4	1SFN 08 4706 R1002	A 145...A 185	S3, S4
BEA 210D/S4	1SFN 08 5106 R1002	A 210	S4
BEA 300D/S5	1SFN 08 5506 R1002	A 210...A 300	S5
BEA 400D/S5	1SFN 08 5706 R1002	AF 400...AF 460	S5
BEA 750D/S6	1SFN 08 6106 R1002	AF 400...AF 750	S6



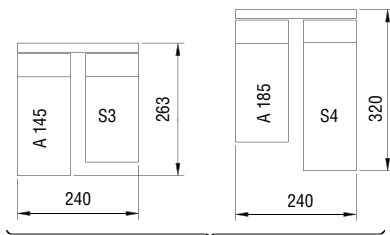
Horizontal assembly



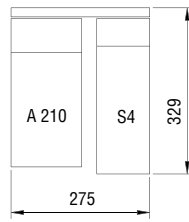
BEA ...H

**Connection bars between Contactor and Moulded Case Circuit Breaker, horizontal assembly.
Also suitable when using busbar kits for starter combinations.**

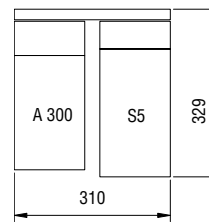
Type	Order code	Contactors	MCCB
BEA 185H/S4	1SFN 08 4707 R 1000	A 145...A 185	S3, S4
BEA 210H/S4	1SFN 08 5107 R 1000	A 210	S4
BEA 300H/S5	1SFN 08 5307 R 1000	A 210...A 300	S5
BEA 400H/S5	1SFN 08 5707 R 1000	AF 400...AF 460	S5
BEA 460H/S6	1SFN 08 5907 R 1000	AF 400...AF 460	S6
BEA 750H/S6	1SFN 08 6107 R 1000	AF 580...AF 750	S6



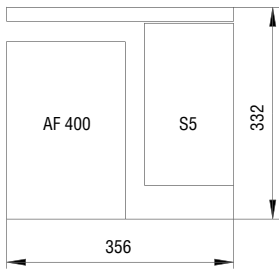
BEA 185H/S4



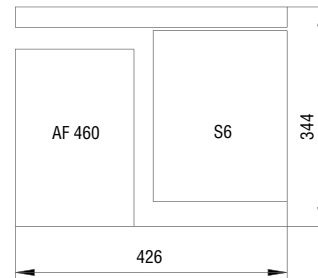
BEA 210H/S4



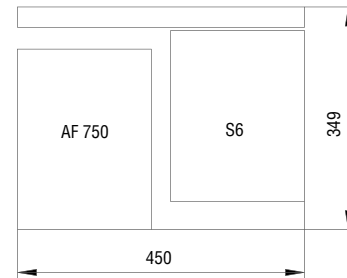
BEA 300H/S5



BEA 400H/S5

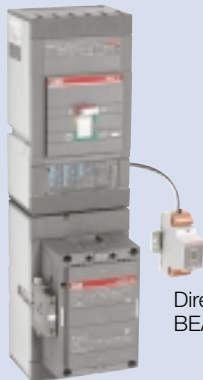


BEA 460H/S6

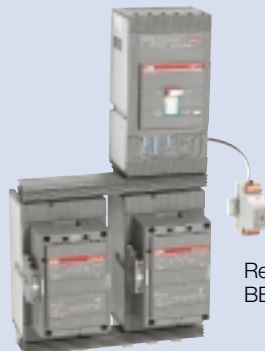


BEA 750H/S6

Example of different usage's of ABB connection bars



Direct On Line starter with
BEA 300/S5 connection bars



Reversing starter with
BEA 300D/S5 connection bars



Star Delta starter with
BEA 300H/S5 connection bars

World-wide support, industry-wide experience

Automation Technology Products

The ABB Automation Technology Products division provides products, systems, software and services for the automation and optimization of discrete, process and batch manufacturing operations plus related business aspects. Key technologies include measurement control, instrumentation, process analysis, drives and motors, power electronics, robots, and low voltage products; all geared toward one common Industrial IT architecture for real-time automation and information solutions across the business enterprise. These technologies are sold both through third-party channels (OEM's, system integrators, distributors) and through the ABB enduser divisions. ABB Automation Technology Products has approximately 43,000 employees.

Low Voltage Products

The new range of motor control equipment is supported by technical documentation and co-ordination tables. This, together with improved design and more compact units makes it easier than ever to incorporate our products in your projects.

Interested in more information about:

- ABB Low Voltage Products offer?
- Co-ordination tables according to IEC 947-4-1?
- Downloads of catalogues and other marketing and technical documentation?

Please enter www.abb.com/lowvoltage or contact your local ABB sales office.



Distributed by:

Gross Automation
1725 South Johnson Road
New Berlin, WI 53146
262-446-0000, FAX 262-446-0300