



ABB QATAR

# Electrification offering guide

Smart Power, Smart Building

# Electrification Solutions panorama

ABB offers a wide range of solutions for any application with advanced performances to maximize the value of your projects

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**Single phase and 3 phases UPS**

Ask us about PowerValue, DPA and more!



**Hospital distribution solutions for operating theatres / group 2**

Ask us about H+ Line!



**Emergency lighting solutions, self-contained and central battery systems**

Ask us about Emergi-Lite!



# Minicenter

## Consumer units, final distribution boards



**Minicenter** is the range of consumer units for final distribution, available with row or way distribution “tree” types and to be fitted with Din rail devices.

- Produced in Qatar
- Adapted to the local requirements
- Full compatibility with ABB complete package
- Row type available for building automation purpose



### Minicenter – Way type

Incomer: to be fitted with SHD200, E200 insulators or S200/SH200 MCBs. Incomer kit is included.

Feeders: compatible with S200, SH200, DSE201, DME100

One way is equivalent to 3 poles. A three phases load or three single phase loads occupy one way

Ways	Surface mounting		Flush mounting	
	Code	Designation	Code	Designation
4	1SKM804142C0119Q	EMC 312 CS-16D	1SKM804242C0119Q	EMC 312 CF-16D
6	1SKM806142C0119Q	EMC 318 CS-16D	1SKM806242C0119Q	EMC 318 CF-16D
8	1SKM808142C0119Q	EMC 324 CS-16D	1SKM808242C0119Q	EMC 324 CF-16D
12	1SKM812142C0119Q	EMC 336 CS-16D	1SKM812242C0119Q	EMC 336 CF-16D
16	1SKM816142C0119Q	EMC 348 CS-16D	1SKM816242C0119Q	EMC 348 CF-16D
20	1SKM820142C7111Q	EMC 360 CS-16T	1SKM820242C7111Q	EMC 360 CF-16T
24	1SKM824142C7111Q	EMC 372 CS-16T	1SKM824242C0119Q	EMC 372 CF-16T
Top extension H200 with Din rail	1SKA254142C0001Q	EMC 200S EXB S	1SKA254242C0001Q	EMC 200S EXB F
Top/bot. extension H200 with back plate	1SKA252142C0001Q	EMC 200 EXB S	1SKA252242C0001Q	EMC 200 EXB F

### Minicenter – Row type

Empty panel for Din rail free mounting

Rows	Width, in mod of 17.5mm	Surface mounting		Flush mounting	
		Code	Designation	Code	Designation
1	20	1SKM120142C0001Q	EMC 120 RXS	1SKM120242C0001Q	EMC 120 RXF
2	32	1SKM232142C0001Q	EMC 232 RXS	1SKM232242C0001Q	EMC 232 RXF
3	48	1SKM348142C0001Q	EMC 348 RXS	1SKM348242C0001Q	EMC 348 RXF
4	64	1SKM464142C0001Q	EMC 464 RXS	1SKM464242C0001Q	EMC 464 RXF
5	80	1SKM580142C0001Q	EMC 580 RXS	1SKM580242C0001Q	EMC 580 RXF
6	96	1SKM696142C0001Q	EMC 696 RXS	1SKM696242C0001Q	EMC 696 RXF

### To know more

Please reach your Sales representative for more information and for any request of specific executions for your projects. Contact us: [info@qa.abb.com](mailto:info@qa.abb.com)

# SHD200, E200

## Din rail switch disconnectors

Based on the long experience on Din rail products ABB provides two ranges of DIN rail switches: SH200 up to 63A, completed with E200 range up to 100A.

- Proven designed through long term service
- Same platform as MCBs, use of the same accessories
- Available in 1P, 2P, 3P and 4P
- Made in Europe



### Runner items

Rated current	2P		3P	
	Code	Designation	Code	Designation
16A	2CDD272111R0016	SHD202/16	2CDD273111R0016	SHD203/16
25A	2CDD272111R0025	SHD202/25	2CDD273111R0025	SHD203/25
32A	2CDD272111R0032	SHD202/32	2CDD273111R0032	SHD203/32
40A	2CDD272111R0040	SHD202/40	2CDD273111R0040	SHD203/40
50A	2CDD272111R0050	SHD202/50	2CDD273111R0050	SHD203/50
63A	2CDD272111R0063	SHD202/63	2CDD273111R0063	SHD203/63
80A	2CDE282001R0080	E202/80r	2CDE283001R0080	E203/80r
100A	2CDE282001R0100	E202/100r	2CDE283001R0100	E203/100r
125A	2CDE282001R0125	E202/125r	2CDE283001R0125	E203/125r

### To know more

Smart Building catalogue <https://bit.ly/3yLONmd>

Contact us: [info@qa.abb.com](mailto:info@qa.abb.com)



### Overview of Minicenter types



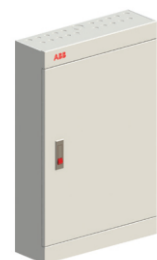
Way type



Row type



Flush mounting



Surface mounting

## S200, SH200

### Modular circuit breakers from 6 to 63A

The S200 and SH200 modular circuit breakers are easy to install and guarantee increased safety. This comprehensive and very extensive range of MCBs covers most applications and projects.

The offer is available in 1P, 2P, 3P and 4P versions with different breaking capacities up to 25kA

- Compact dimensions
- Limitation of short-circuit currents
- Single auxiliary contact with lower fixing to save space
- Compliance with residential and industrial standards: IEC 60898-1, IEC 60947-2
- Contact position indication with S200 range, the most advanced
- Made in Europe



#### Runner items S200, C curve (example 3 poles, 16A, 10kA : S203M C16 2CDS273001R0164)

Rating	6kA		10kA	
	1P	3P	1P	3P
6A	2CDS251001R0064	2CDS253001R0064	2CDS271001R0064	2CDS273001R0064
10A	2CDS251001R0104	2CDS253001R0104	2CDS271001R0104	2CDS273001R0104
13A	2CDS251001R0134	2CDS253001R0134	2CDS271001R0134	2CDS273001R0134
16A	2CDS251001R0164	2CDS253001R0164	2CDS271001R0164	2CDS273001R0164
20A	2CDS251001R0204	2CDS253001R0204	2CDS271001R0204	2CDS273001R0204
25A	2CDS251001R0254	2CDS253001R0254	2CDS271001R0254	2CDS273001R0254
32A	2CDS251001R0324	2CDS253001R0324	2CDS271001R0324	2CDS273001R0324
40A	2CDS251001R0404	2CDS253001R0404	2CDS271001R0404	2CDS273001R0404
50A	2CDS251001R0504	2CDS253001R0504	2CDS271001R0504	2CDS273001R0504
63A	2CDS251001R0634	2CDS253001R0634	2CDS271001R0634	2CDS273001R0634

#### Runner items SH200, C curve

Rating	6kA		10kA	
	1P	3P	1P	3P
6A	2CDS211001R0064	2CDS213001R0064	2CDS271011R0064	2CDS273011R0064
10A	2CDS211001R0104	2CDS213001R0104	2CDS271011R0104	2CDS273011R0104
13A	2CDS211001R0134	2CDS213001R0134	2CDS271011R0134	-
16A	2CDS211001R0164	2CDS213001R0164	2CDS271011R0164	2CDS273011R0164
20A	2CDS211001R0204	2CDS213001R0204	2CDS271011R0204	2CDS273011R0204
25A	2CDS211001R0254	2CDS213001R0254	2CDS271011R0254	2CDS273011R0254
32A	2CDS211001R0324	2CDS213001R0324	2CDS271011R0324	2CDS273011R0324
40A	2CDS211001R0404	2CDS213001R0404	2CDS271011R0404	2CDS273011R0404
50A	2CDS211001R0504	2CDS213001R0504	2CDS271011R0504	2CDS273011R0504
63A	2CDS211001R0634	2CDS213001R0634	2CDS271011R0634	2CDS273011R0634

#### To know more

Smart Building catalogue <https://bit.ly/3yLONmd>

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## DSE201, DME100

### Electronic 1P+N RCBO

ABB offers two ranges of electronic RCBO with short circuit rating up to 10kA and rated current up to 50A, meeting the requirements of any project in the Gulf.

Moreover DSE201 is fitted with a trip indicator in case of residual current trip. Both ranges are fully compatible with ABB Minicenter distribution boards and meet the highest international standards. Made in Europe.



#### Runner items: type AC 30mA

Example: 2CSR275053R1164 DSE201 M C16 AC30

Rating	DSE201		DME100
	6kA	10kA	10kA
6A	2CSR255053R1064	2CSR275053R1064	2CDB363500R1064
10A	2CSR255053R1104	2CSR275053R1104	2CDB363500R1104
16A	2CSR255053R1164	2CSR275053R1164	2CDB363500R1164
20A	2CSR255053R1204	2CSR275053R1204	2CDB363500R1204
25A	2CSR255053R1254	2CSR275053R1254	2CDB363500R1254
32A	2CSR255053R1324	2CSR275053R1324	2CDB363500R1324
40A	2CSR255053R1404	2CSR275053R1404	2CDB363500R1404
50A	-	2CSR275053R1504	-

#### To know more

Smart Building catalogue <https://bit.ly/3yLOnmd>

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# F200, FH200

## Residual current circuit breakers

**F200** and **FH200** differential switches are the safest devices for detecting and tripping in the event of electrical leakage currents. They provide protection against electric shock due to indirect contact. They also act as main switch-disconnectors upstream of branch circuit breakers.

- Available in 2-3-4 poles up to 125A
- Sensitivity 10-30-100-300mA
- Trip indicator on F200, the most advanced range
- Wide range of accessories
- Made in Europe



### Runner items – type AC, 30mA

Range	Poles	Rated current	Code	Designation
F200	2P	25 A	2CSF202005R1250	F202 AC-25/0,03
		40 A	2CSF202005R1400	F202 AC-40/0,03
		63 A	2CSF202005R1630	F202 AC-63/0,03
		80 A	2CSF202005R1800	F202 AC-80/0,03
		100 A	2CSF202005R1900	F202 AC-100/0,03
	4P	25 A	2CSF204005R1250	F204 AC-25/0,03
		40 A	2CSF204005R1400	F204 AC-40/0,03
		63 A	2CSF204005R1630	F204 AC-63/0,03
		80 A	2CSF204005R1800	F204 AC-80/0,03
		100 A	2CSF204005R1900	F204 AC-100/0,03
FH200	2P	125 A	2CSF204001R1950	F204 AC-125/0,03
		25 A	2CSF202006R1250	FH202 AC-25/0,03
		40 A	2CSF202006R1400	FH202 AC-40/0,03
		63 A	2CSF202006R1630	FH202 AC-63/0,03
		25 A	2CSF204006R1250	FH204 AC-25/0,03
	4P	40 A	2CSF204006R1400	FH204 AC-40/0,03
		63 A	2CSF204006R1630	FH204 AC-63/0,03

### To know more

Smart Building catalogue <https://bit.ly/3yLOnmd>

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# ESB-N

## Modular Din rail contactors up to 100A

The **ESB-N** modular contactors are available with a wide range from 16 to 100 A. The electronic coil technology offers the same advantages as the AF range, in a modular version.

- Suitable for lighting, heating, ventilation, motor and pumps applications
- Versions with control voltage 24VAC/DC & 230V AC/DC
- Built-in surge protection
- Mechanical status indicator
- Reduced energy consumption and heating
- Available with manual control, EN-N range
- Made in Europe



### Runner items

Control voltage 230V AC/DC

Poles	In	Code	Version
2P	16A	1SBE111111R0620	ESB16-20N-06
	20A	1SBE121111R0620	ESB20-20N-06
	25A	1SAE231111R0620	ESB25-20N-06
	40A	1SAE341111R0620	ESB40-20N-06
4P	25A	1SAE231111R0640	ESB25-40N-06
	40A	1SAE341111R0640	ESB40-40N-06
	63A	1SAE351111R0640	ESB63-40N-06
	100A	1SAE661111R0640	ESB100-40N-06

### Selected accessories

Accessory type	Code	Designation
Auxiliary contact 2NO	1SAE901901R1020	EH04-20N
Auxiliary contact 1NO+1NC	1SAE901901R1011	EH04-11N

### To know more

Catalogue: <https://bit.ly/3dRtrOE>



Contact us: [info@qa.abb.com](mailto:info@qa.abb.com)

See also **E290 Latching relays** range for lighting applications:

- Control voltage 230VAC/110VDC
- Silent
- Energy saving
- Compact dimensions
- Up to 250 000 cycles



### Runner items

Latching relay 16A 1P  
2TAZ312000R2011 E 290-16-10/230

Latching relay 32A 1P  
2TAZ322000R2011 E 290-32-10/230

### To know more:

Smart Building catalogue  
<https://bit.ly/3yLONmd>



## Additional components

Give a final touch to your panels

A wide range of completion items is available at your fingertips to complete the projects with a single renowned brand. Here's a selection of the most used items



Type	Type	Code	Designation
E90	1P 32A	2CSM200923R1801	E 91/32
Fuseholders for 10.3 x 38 mm fuses	2P 32A	2CSM200883R1801	E 92/32
	3P 32A	2CSM204753R1801	E 93/32
	4P 32A	2CSM204723R1801	E 94/32
E9F gG cylindrical fuses 10.3 x 38 mm	0.5 A	2CSM277333R1801	E 9F10 GG05
	1 A	2CSM277113R1801	E 9F10 GG1
	2 A	2CSM258723R1801	E 9F10 GG2
	4 A	2CSM257543R1801	E 9F10 GG4
	6 A	2CSM256363R1801	E 9F10 GG6
	8 A	2CSM258633R1801	E 9F10 GG8
	10 A	2CSM257453R1801	E 9F10 GG10
	12 A	2CSM256273R1801	E 9F10 GG12
	16 A	2CSM277543R1801	E 9F10 GG16
	20 A	2CSM277323R1801	E 9F10 GG20
	25 A	2CSM277103R1801	E 9F10 GG25
32 A	2CSM258713R1801	E 9F10 GG32	
CP-E Power supplies	24 V DC / 0.75 A	1SVR427030R0000	CP-E 24/0.75
	24 V DC / 1.25 A	1SVR427031R0000	CP-E 24/1.25
	24 V DC / 2.5 A	1SVR427032R0000	CP-E 24/2.5
	24 V DC / 5 A	1SVR427034R0000	CP-E 24/5.0
	24 V DC / 10 A	1SVR427035R0000	CP-E 24/10.0
	24 V DC / 20 A	1SVR427036R0000	CP-E 24/20.0
OVR Surge protection	Type 1+2	2CTB815710R0700	OVR T1-T2 3N 12.5-275s P TS QS
	Type 2	2CTB815704R0800	OVR T2 3N 40-275s P TS QS
	Type 2 +3	2CTB803973R1600	OVR T2-T3 3N 20-275 P TS QS
E210 9mm width	3 phases indicator	2CCA703902R0001	E219-3CDE
	C/O switch 16A	2CCA703040R0001	E213-16-001
	1NO+1NC 16A	2CCA703050R0001	E218-16-11
Din British standard socket	No LED	2CSM259343R0721	M1363
	With LED	2CSM258163R0721	M1363-L
M4M network analyser	Standard	2CSG251151R4051	M4M 20
	Advanced	2CSG239035R4051	M4M 30-M MODBUS





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## Naveo®Pro

Smart monitoring system to manage emergency lighting with a mobile app

Discover ABB's smart emergency lighting solutions controlled completely from your mobile device. Naveo®Pro enables a transparent way to set up, maintain and control the entire emergency lighting installation, while keeping a record of all activity safely in the cloud. Utilising the ABB Ability™ platform gives you integrated cyber security for safety and reliability, enables better maintenance planning, and reduces operating costs. [new.abb.com/low-voltage](http://new.abb.com/low-voltage)





# Mirage

## Sub Main Distribution Boards



**Mirage** is the SMDB offer with ratings from 250A to 630A and compatible with Tmax and Formula molded case circuit breakers.

- Produced in Qatar
- Adapted to the local requirements
- Full compatibility with ABB complete package
- Available also with mixed outgoing



### Mirage 250A

Incomer: Tmax XT3

One way is equivalent to one outgoing 3P. One way can be employed with three Formula 1P breakers.

Feeders	Ways	Designation	Code
XT1	4	GDMR25-304FXT1	1SKS504242C2310Q
	6	GDMR25-306FXT1	1SKS506242C2310Q
	8	GDMR25-308FXT1	1SKS508242C2310Q
	12	GDMR25-312FXT1	1SKS512242C2310Q
	16	GDMR25-316FXT1	1SKS516242C2310Q
A1	4	GDMR25-304FA1	1SKS704242C2310Q
	6	GDMR25-306FA1	1SKS706242C2310Q
	8	GDMR25-308FA1	1SKS708242C2310Q
	12	GDMR25-312FA1	1SKS712242C2310Q
	16	GDMR25-316FA1	1SKS716242C2310Q
Accessories		GDMR63-ATB2BN top extension box (H250 W800 D205)	1SKA660448C4105Q
		GDMR63-ATB4BN top extension box (H400 W800 D205)	1SKA660448C4106Q
		GDMR63-ABP2CN bottom ext. plinth (H250 W800 D205)	1SKA661448C4103Q

### Mirage 400A

Incomer: Tmax T5 400

One way is equivalent to one outgoing 3P. One way can be employed with three Formula 1P breakers.

Feeders	Ways	Designation	Code
XT1	4	GDMR40-304FXT1	1SKS504242C4310Q
	6	GDMR40-306FXT1	1SKS506242C4310Q
	8	GDMR40-308FXT1	1SKS508242C4310Q
	12	GDMR40-312FXT1	1SKS512242C4310Q
	16	GDMR40-316FXT1	1SKS516242C4310Q
XT3	4	GDMR40-304FXT3	1SKS504242C4319Q
	6	GDMR40-306FXT3	1SKS506242C4319Q
	8	GDMR40-308FXT3	1SKS508242C4319Q
	12	GDMR40-312FXT3	1SKS512242C4319Q
	16	GDMR40-316FXT3	1SKS516242C4319Q



A1	4	GDMR40-304FA1	1SKS704242C4310Q
	6	GDMR40-306FA1	1SKS706242C4310Q
	8	GDMR40-308FA1	1SKS708242C4310Q
	12	GDMR40-312FA1	1SKS712242C4310Q
	16	GDMR40-316FA1	1SKS716242C4310Q
A2	4	GDMR40-304FA2	1SKS704242C4319Q
	6	GDMR40-306FA2	1SKS706242C4319Q
	8	GDMR40-308FA2	1SKS708242C4319Q
	12	GDMR40-312FA2	1SKS712242C4319Q
	16	GDMR40-316FA2	1SKS716242C4319Q
Accessories		GDMR63-ATB2BN top extension box (H250 W800 D205)	1SKA660448C4105Q
		GDMR63-ATB4BN top extension box (H400 W800 D205)	1SKA660448C4106Q
		GDMR63-ABP2CN bottom ext. plinth (H250 W800 D205)	1SKA661448C4103Q

### Mirage 630A

Incomer: Tmax T5 630

One way is equivalent to one outgoing 3P. One way can be employed with three Formula 1P breakers.

Feeders	Ways	Designation	Code
XT1	4	GDMR63-304FXT1	1SKS504242C6310Q
	6	GDMR63-306FXT1	1SKS506242C6310Q
	8	GDMR63-308FXT1	1SKS508242C6310Q
	12	GDMR63-312FXT1	1SKS512242C6310Q
	16	GDMR63-316FXT1	1SKS516242C6310Q
XT3	4	GDMR63-304FXT3	1SKS504242C6319Q
	6	GDMR63-306FXT3	1SKS506242C6319Q
	8	GDMR63-308FXT3	1SKS508242C6319Q
	12	GDMR63-312FXT3	1SKS512242C6319Q
	16	GDMR63-316FXT3	1SKS516242C6319Q
A1	4	GDMR63-304FA1	1SKS704242C6310Q
	6	GDMR63-306FA1	1SKS706242C6310Q
	8	GDMR63-308FA1	1SKS708242C6310Q
	12	GDMR63-312FA1	1SKS712242C6310Q
	16	GDMR63-316FA1	1SKS716242C6310Q
A2	4	GDMR63-304FA2	1SKS704242C6319Q
	6	GDMR63-306FA2	1SKS706242C6319Q
	8	GDMR63-308FA2	1SKS708242C6319Q
	12	GDMR63-312FA2	1SKS712242C6319Q
	16	GDMR63-316FA2	1SKS716242C6319Q
Accessories		GDMR63-ATB2BN top extension box (H250 W800 D205)	1SKA660448C4105Q
		GDMR63-ATB4BN top extension box (H400 W800 D205)	1SKA660448C4106Q
		GDMR63-ABP2CN bottom ext. plinth (H250 W800 D205)	1SKA661448C4103Q

### To know more

Please reach your Sales representative for more information and for any request of specific executions for your projects. Contact us: [info@qa.abb.com](mailto:info@qa.abb.com)

## Tmax XT

### Molded case circuit breakers up to 1600A

**Tmax XT** molded case circuit breakers, simple to install and with increased safety, guarantee exceptional performance in an increasingly small footprint.

The range has seven frame sizes: XT1, XT2 up to 160 A and XT3, XT4 up to 250 A, XT5 up to 630A, XT6 up to 1000A, XT7 up to 1600A. The ranges Tmax T5-6-7 are being replaced by the new Tmax XT5-6-7.

- Compact dimensions
- Breaking capacity from 18kA
- Fixed, plugin and withdrawable versions from 16A
- Fourth protected pole
- Versatile, it adapts to all your projects
- Setting at 50deg C for thermomagnetic versions
- Switch disconnecter versions available
- Made in Italy



#### Runner items – Icu 25kA@ 415V, fixed execution, 3P, Thermomagnetic trip unit

Rated current	Family	Code	Designation
25A	XT1C	1SDA070083R1	XT1C 160 TMD 25-450 3p F F 50°C
32A	XT1C	1SDA070084R1	XT1C 160 TMD 32-450 3p F F 50°C
40A	XT1C	1SDA070085R1	XT1C 160 TMD 40-450 3p F F 50°C
63A	XT1C	1SDA070087R1	XT1C 160 TMD 63-630 3p F F 50°C
80A	XT1C	1SDA070088R1	XT1C 160 TMD 80-800 3p F F 50°C
100A	XT1C	1SDA070089R1	XT1C 160 TMD 100-1000 3p F F 50°C
125A	XT1C	1SDA070090R1	XT1C 160 TMD 125-1250 3p F F 50°C
150A	XT1C	1SDA070091R1	XT1C 160 TMD 150-1500 3p F F 50°C
160A	XT3C	1SDA081816R1	XT3C 250 TMD 160-1600 3p F F 50°C
200A	XT3C	1SDA081817R1	XT3C 250 TMD 200-2000 3p F F 50°C
250A	XT3C	1SDA081818R1	XT3C 250 TMD 250-2500 3p F F 50°C

#### Runner items – Icu 36kA @ 415V, 3P, fixed execution

Rated current	Family	Trip unit	Code	Designation
32A	XT1N	Thermomagnetic	1SDA070101R1	XT1N 160 TMD 32-450 3p F F 50°C
40A	XT1N	Thermomagnetic	1SDA070102R1	XT1N 160 TMD 40-450 3p F F 50°C
63A	XT1N	Thermomagnetic	1SDA070104R1	XT1N 160 TMD 63-630 3p F F 50°C
80A	XT1N	Thermomagnetic	1SDA070105R1	XT1N 160 TMD 80-800 3p F F 50°C
100A	XT1N	Thermomagnetic	1SDA070106R1	XT1N 160 TMD 100-1000 3p F F 50°C
125A	XT1N	Thermomagnetic	1SDA070107R1	XT1N 160 TMD 125-1250 3p F F 50°C
150A	XT1N	Thermomagnetic	1SDA070108R1	XT1N 160 TMD 150-1500 3p F F 50°C
160A	XT3N	Thermomagnetic	1SDA070161R1	XT3N 250 TMD 160-1600 3p F F 50°C
200A	XT3N	Thermomagnetic	1SDA070162R1	XT3N 250 TMD 200-2000 3p F F 50°C

250A	XT3N	Thermomagnetic	1SDA070163R1	XT3N 250 TMD 250-2500 3p F F 50°C	
320A	T5N	Electronic LS/I	1SDA054316R1	T5N 400 PR221DS-LS/I In=320 3p F F	
320A	XT5N	Electronic LS/I	1SDA100353R1	XT5N 400 Ekip Dip LS/I In=320 3p F F	NEW
400A	T5N	Thermomagnetic	1SDA054437R1	T5N 400 TMA 400-4000 3p F F	
400A	XT5N	Thermomagnetic	1SDA100345R1	XT5N 400 TMA 400-4000 3p F F	NEW
400A	T5N	Electronic LS/I	1SDA054317R1	T5N 400 PR221DS-LS/I In=400 3p F F	
400A	XT5N	Electronic LS/I	1SDA100354R1	XT5N 400 Ekip Dip LS/I In=400 3p F F	NEW
630A	T5N	Electronic LS/I	1SDA054396R1	T5N 630 PR221DS-LS/I In=630 3p F F	
630A	XT5N	Electronic LS/I	1SDA100355R1	XT5N 630 Ekip Dip LS/I In=630 3p F F	NEW
630A	T6N	Thermomagnetic	1SDA060202R1	T6N 630 TMA 630-6300 3p F F	
630A	T6N	Electronic LS/I	1SDA060226R1	T6N 630 PR221DS-LS/I In=630 3p F F	
800A	T6N	Electronic LS/I	1SDA060268R1	T6N 800 PR221DS-LS/I In=800 3p F F	
800A	XT6N	Electronic LS/I	1SDA100719R1	XT6N 800 Ekip Dip LS/I In=800 3p F F	NEW
1000A	T6N	Electronic LS/I	1SDA060537R1	T6N 1000 PR221DS-LS/I In=1000 3p F F	
1000A	XT6N	Electronic LS/I	1SDA100720R1	XT6N 1000 Ekip Dip LS/I In=1000 3p F F	NEW

**Runner items – Icu 50kA @ 415V, 3P, fixed execution**

Rated current	Family	Trip unit	Code	Designation	
63A	XT2S	Thermomagnetic	1SDA070143R1	XT2S 160 TMA 63-630 3p F F 50°C	
80A	XT2S	Thermomagnetic	1SDA070144R1	XT2S 160 TMA 80-800 3p F F 50°C	
100A	XT2S	Thermomagnetic	1SDA070145R1	XT2S 160 TMA 100-1000 3p F F 50°C	
125A	XT2S	Thermomagnetic	1SDA070146R1	XT2S 160 TMA 125-1250 3p F F 50°C	
160A	XT4S	Electronic LS/I	1SDA068474R1	XT4S 160 Ekip LS/I In=160A 3p F F	
250A	XT4S	Electronic LS/I	1SDA068475R1	XT4S 250 Ekip LS/I In=250A 3p F F	
320A	T5S	Thermomagnetic	1SDA054440R1	T5S 400 TMA 320-3200 3p F F	
320A	XT5S	Thermomagnetic	1SDA100414R1	XT5S 400 TMA 320-3200 3p F F	NEW
320A	T5S	Electronic LS/I	1SDA054332R1	T5S 400 PR221DS-LS/I In=320 3p F F	
320A	XT5S	Electronic LS/I	1SDA100423R1	XT5S 400 Ekip Dip LS/I In=320 3p F F	NEW
400A	T5S	Thermomagnetic	1SDA054441R1	T5S 400 TMA 400-4000 3p F F	
400A	XT5S	Thermomagnetic	1SDA100415R1	XT5S 400 TMA 400-4000 3p F F	NEW
400A	T5S	Electronic LS/I	1SDA054333R1	T5S 400 PR221DS-LS/I In=400 3p F F	
400A	XT5S	Electronic LS/I	1SDA100424R1	XT5S 400 Ekip Dip LS/I In=400 3p F F	NEW
630A	T5S	Electronic LS/I	1SDA054404R1	T5S 630 PR221DS-LS/I In=630 3p F F	
630A	XT5S	Electronic LS/I	1SDA100425R1	XT5S 630 Ekip Dip LS/I In=630 3p F F	NEW
630A	T6S	Electronic LS/I	1SDA060236R1	T6S 630 PR221DS-LS/I In=630 3p F F	
800A	T6S	Electronic LS/I	1SDA060278R1	T6S 800 PR221DS-LS/I In=800 3p F F	
800A	XT6S	Electronic LS/I	1SDA100741R1	XT6S 800 Ekip Dip LS/I In=800 3p F F	NEW
1000A	T6S	Electronic LS/I	1SDA060547R1	T6S 1000 PR221DS-LS/I In=1000 3p F F	
1000A	XT6S	Electronic LS/I	1SDA100742R1	XT6S 1000 Ekip Dip LS/I In=1000 3p F F	NEW
1000A	T7S	Electronic LS/I	1SDA062738R1	T7S 1000 PR231/P LS/I In=1000A 3p F F	
1000A	XT7S	Electronic LS/I	1SDA100827R1	XT7S 1000 Ekip Dip LS/I In=1000A 3p F F	NEW
1250A	T7S	Electronic LS/I	1SDA062866R1	T7S 1250 PR231/P LS/I In=1250A 3p F F	
1250A	XT7S	Electronic LS/I	1SDA100828R1	XT7S 1250 Ekip Dip LS/I In=1250A 3p F F	NEW
1600A	T7S	Electronic LS/I	1SDA062994R1	T7S 1600 PR231/P LS/I In=1600A 3p F F	
1600A	XT7S	Electronic LS/I	1SDA100829R1	XT7S 1600 Ekip Dip LS/I In=1600A 3p F F	NEW

## Runner items – switch disconnectors, 3P, fixed execution

Frame	Family	Code	Designation	
160A	XT1D	1SDA068208R1	XT1D 160 3p F F	
250A	XT3D	1SDA068210R1	XT3D 250 3p F F	
400A	T5D	1SDA054599R1	T5D 400 3p F F	
400A	XT5D	1SDA100546R1	XT5D 400 3p F F	NEW
630A	T5D	1SDA054601R1	T5D 630 3p F F	
630A	XT5D	1SDA100547R1	XT5D 630 3p F F	NEW
630A	T6D	1SDA060345R1	T6D 800 3p F F	
630A	XT6D	1SDA100784R1	XT6D 800 3p F F	NEW
800A	T6D	1SDA060345R1	T6D 800 3p F F	
800A	XT6D	1SDA100784R1	XT6D 800 3p F F	NEW
1000A	T7D	1SDA062032R1	T7D 1000 3p F F	
1000A	XT7D	1SDA101906R1	XT7D 1000 3p F F	NEW
1250A	T7D	1SDA062036R1	T7D 1250 3p F F	
1250A	XT7D	1SDA101907R1	XT7D 1250 3p F F	NEW
1600A	T7D	1SDA062040R1	T7D 1600 3p F F	
1600A	XT7D	1SDA101908R1	XT7D 1600 3p F F	NEW

## Selected accessories

Designation	Code
Kit for mounting XT1 3P on DIN rail	1SDA066652R1
Kit for mounting XT3 3P on DIN rail	1SDA066420R1

## To know more

Catalogue <https://bit.ly/3qeEhqb>

Contact us: [info@qa.abb.com](mailto:info@qa.abb.com)





## Formula

Molded case circuit breakers with fixed tripping curves, up to 630A

**Formula** molded case circuit breakers provides essential protection that is easy to select and install up to 630A.

The range is available with three frame sizes: A1, A2 and A3.

- Compact dimensions
- Breaking capacity starting from 18kA
- Fixed versions with non-adjustable thermomagnetic releases
- 1-2-3 and 4 pole versions available
- Selection of essential accessories
- Calibrated at 50 ° C
- Made in Italy



### Runner items

Poles	Icu @ 415V	Rated current	Size	Code	Designation
1P	25kA	20A	A1	1SDA066686R1	A1N 125 TMF 20-400 1p F F
1P	25kA	25A	A1	1SDA066687R1	A1N 125 TMF 25-400 1p F F
1P	25kA	30A	A1	1SDA066688R1	A1N 125 TMF 30-400 1p F F
1P	25kA	32A	A1	1SDA068755R1	A1N 125 TMF 32-400 1p F F
1P	25kA	40A	A1	1SDA066689R1	A1N 125 TMF 40-400 1p F F
1P	25kA	50A	A1	1SDA066690R1	A1N 125 TMF 50-500 1p F F
1P	25kA	60A	A1	1SDA066691R1	A1N 125 TMF 60-600 1p F F
1P	25kA	63A	A1	1SDA068765R1	A1C 125 TMF 63-630 1p F F
3P	25kA	40	A1	1SDA066713R1	A1C 125 TMF 40-400 3p F F
3P	25kA	63	A1	1SDA068770R1	A1C 125 TMF 63-630 3p F F
3P	25kA	80	A1	1SDA066717R1	A1C 125 TMF 80-800 3p F F
3P	25kA	100	A1	1SDA066719R1	A1C 125 TMF 100-1000 3p F F
3P	25kA	125	A1	1SDA066720R1	A1C 125 TMF 125-1250 3p F F
3P	25kA	160	A2	1SDA066776R1	A2C 250 TMF 160-1600 3p F F
3P	36kA	125	A2	1SDA066781R1	A2N 250 TMF 125-1250 3p F F
3P	36kA	160	A2	1SDA066782R1	A2N 250 TMF 160-1600 3p F F

### To know more

Formula catalogue - 1SDC210032D0204

<https://bit.ly/3yHxzNo>

Contact us: [info@qa.abb.com](mailto:info@qa.abb.com)



## Emax 2

### Air circuit breakers up to 6300A

**Emax 2** open circuit breakers up to 6300A have been designed to optimize efficiency. It is the only circuit breaker that protects electrical circuits while reducing energy consumption according to user needs, thus allowing a considerable reduction in energy waste

- Fixed and withdrawable versions for all sizes
- Possibility to connect to the cloud and run predictive maintenance with Ability Energy and Asset Manager
- Certified 44kA 3sec
- Made in Italy



#### Runner items – E2.2N, Icu 66kA @415V, trip unit Dip LSI, standard HR rear terminals

Rated current	Execution	Code 3P	Code 4P
800A	Fixed version	1SDA070892R1	1SDA071522R1
	Withdrawable - mobile part	1SDA072242R1	1SDA072872R1
	Withdrawable - fixed part	1SDA073909R1	1SDA073910R1
1000A	Fixed version	1SDA070922R1	1SDA071552R1
	Withdrawable - mobile part	1SDA072272R1	1SDA072902R1
	Withdrawable - fixed part	1SDA073909R1	1SDA073910R1
1250A	Fixed version	1SDA070952R1	1SDA071582R1
	Withdrawable - mobile part	1SDA072302R1	1SDA072932R1
	Withdrawable - fixed part	1SDA073909R1	1SDA073910R1
1600A	Fixed version	1SDA070992R1	1SDA071622R1
	Withdrawable - mobile part	1SDA072342R1	1SDA072972R1
	Withdrawable - fixed part	1SDA073909R1	1SDA073910R1
2000A	Fixed version	1SDA071032R1	1SDA071662R1
	Withdrawable - mobile part	1SDA072382R1	1SDA073012R1
	Withdrawable - fixed part	1SDA073909R1	1SDA073910R1
2500A	Fixed version	1SDA071062R1	1SDA071692R1
	Withdrawable - mobile part	1SDA072412R1	1SDA073042R1
	Withdrawable - fixed part	1SDA073911R1	1SDA073912R1

Example:  
1SDA071692R1

E2.2N 2500  
Ekip Dip LSI 4p  
F HR

#### Accessories

Coils and motor	30V AC/DC	230V AC/DC
YO - shunt trip	1SDA073669R1	1SDA073674R1
YC - closing coil	1SDA073682R1	1SDA073687R1
YU - undervoltage release	1SDA073695R1	1SDA073700R1
MO - motor operating	1SDA073722R1	1SDA073725R1
Automatic transfer switch	Code	Designation
Module for source transfer management, standard (max 2 breakers)	1SDA065523R1	ATS021
Module for source transfer management, advanced (max 3 breakers)	1SDA065524R1	ATS022

#### To know more

Catalogue <https://bit.ly/3EdWXvd>

Contact us: [info@qa.abb.com](mailto:info@qa.abb.com)



## OT, OS

Switch disconnectors from 16 to 4000A

Fuse-switch disconnector from 16 to 1250A

**OT** switch-disconnectors are tested for AC and DC operations. They are particularly suitable for various applications such as machines, power distribution, switchboards, motorized control centers or direct current installations.

The **OS** range is very useful for the protection of variable speed drives and compatible with ultra-fast fuses while offering safe isolation.

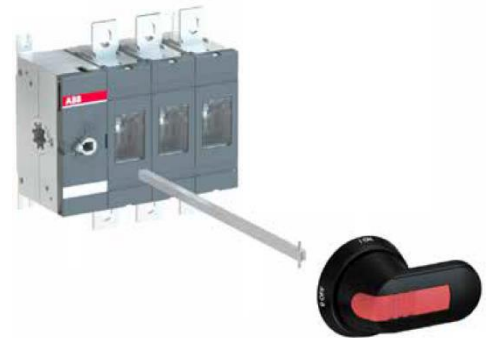
- Extremely compact solutions
- Reliable and fast installation, every time
- High performance
- For OT, visualization of contacts
- Wide range of accessories
- Made in Europe



### Switch disconnectors – runner items, 3P, with shaft and handle

Including a black Test-OFF-ON plastic direct mount handle and shaft as standard

Rated current	Code	Designation
16A	1SCA104811R1001	OT16F3
25A	1SCA104857R1001	OT25F3
40A	1SCA104902R1001	OT40F3
63A	1SCA105332R1001	OT63F3
80A	1SCA105798R1001	OT80F3
160A	1SCA120514R1001	OT160EV03P
250A	1SCA022710R0100	OT250E03P
315A	1SCA022718R8510	OT315E03P
400A	1SCA022718R8780	OT400E03P
630A	1SCA022718R8940	OT630E03P
800A	1SCA022718R9410	OT800E03P
1000A	1SCA022860R5930	OT1000E03P
1250A	1SCA022860R6230	OT1250E03P



### Fuse-switch disconnector – runner items, with shaft and handle

Poles	Rated current	Fuse type	Code	Designation
3P	400A	DIN, size 0, 1, 2	1SCA022719R0250	OS400D03P
4P	630A	DIN, size 3	1SCA022825R2830	OS630D03P
4P	800A	DIN, size 3	1SCA022825R4880	OS800D03P
4P	1250A	DIN, size 4	1SCA105475R1001	OS1250D03P
4P	1250A	DIN, size 4a	1SCA105238R1001	OS1250DA03P



### To know more

Catalogue <https://bit.ly/3dTHiUy>

Contact us: [info@qa.abb.com](mailto:info@qa.abb.com)



# OT\_C, OTM\_C, OMD, compact ATS, TruONE™

Manual, Motorized and Automatic Transfer Switches from 16 to 3200A

ABB transfer switches offer solutions for all projects, from the essential needs with **OT\_C** manual changeover, to intermediate with **OTM\_C** and its motorized changeover to the most advanced with **compact ATS** and **Truone™** and their integrated automated changeover. In addition to this OMD modules automate motorized inverters OTM\_C.

- An offer adapted to each project
- OMD modules to automate motorized versions
- With Truone and compact ATS: all automation needs already embedded
- Wide range of accessories



## OT-C Manual transfer switches - runner items, 4P

Rated current	Code	Designation
160A	1SCA022775R9440	OT160E04CP
200A	1SCA022771R7280	OT200E04CP
250A	1SCA022775R4640	OT250E04CP
315A	1SCA022775R7150	OT315E04CP
400A	1SCA022771R8680	OT400E04CP
630A	1SCA022785R6130	OT630E04CP
800A	1SCA022785R6210	OT800E04CP

## OTM\_C Motorized transfer switches – runner items, 4P

Rated current	Motor voltage	Code	Designation
40A	110...240V AC/DC	1SCA120102R1001	OTM40F4CMA230V
63A	110...240V AC/DC	1SCA120101R1001	OTM63F4CMA230V
80A	110...240V AC/DC	1SCA120100R1001	OTM80F4CMA230V
100A	110...240V AC/DC	1SCA120098R1001	OTM100F4CMA230V
125A	110...240V AC/DC	1SCA120097R1001	OTM125F4CMA230V
160A	220...240V AC	1SCA022848R1510	OTM160E4CM230C
200A	220...240V AC	1SCA022846R1590	OTM200E4CM230C
250A	220...240V AC	1SCA022846R1910	OTM250E4CM230C
315A	220...240V AC	1SCA022847R2870	OTM315E4CM230C
400A	220...240V AC	1SCA022847R3250	OTM400E4CM230C
630A	220...240V AC	1SCA022873R1990	OTM630E4CM230C
800A	220...240V AC	1SCA022872R8340	OTM800E4CM230C
1000A	220...240V AC	1SCA112703R1001	OTM1000E4CM230C
1250A	220...240V AC	1SCA112702R1001	OTM1250E4CM230C
1600A	220...240V AC	1SCA112704R1001	OTM1600E4CM230C
2000A	220...240V AC	1SCA112712R1001	OTM2000E4CM230C
2500A	220...240V AC	1SCA112713R1001	OTM2500E4CM230C
3200A	220...240V AC	1SCA129242R1001	OTM3200E4CM230C



Accessories for OTM\_C motorized transfer switches

Code	Designation	Type
1SCA123790R1001	OMD300E480C-A1	Standard automation module
1SCA123791R1001	OMD800E480C-A1	Advanced automation module
1SCA116892R1001	ODPSE230C	Dual power source

Compact ATS Automatic transfer switches from 40 to 125A - runner items

Poles	Rated current	Sources side	Code	Designation
2P	63A	Top	1SCA151422R1001	OTM63F2C21D230C
2P	125 A	Top	1SCA151418R1001	OTM125F2C21D230C
4P	40 A	Bottom	1SCA150580R1001	OTM40F4CB21D400C
4P	63 A	Bottom	1SCA150586R1001	OTM63F4CB21D400C
4P	125 A	Bottom	1SCA150574R1001	OTM125F4CB21D400C

TruONE™ Automatic transfer switches from 200 to 1600A – runner items, 4P, level 2

Sources side	Rated current	Code	Designation
Top	200A	1SCA153428R1001	OXB200E3S2QT
	250A	1SCA153457R1001	OXB250E3S2QT
	315A	1SCA153502R1001	OXB315E3S2QT
	400A	1SCA153516R1001	OXB400E3S2QT
	500A	1SCA151026R1001	OXB500E3S2QT
	630A	1SCA151055R1001	OXB630E3S2QT
	800A	1SCA150935R1001	OXB800E3S2QT
	1000A	1SCA153578R1001	OXB1000E3S2QT
	1250A	1SCA153611R1001	OXB1250E3S2QT
	1600A	1SCA153623R1001	OXB1600E3S2QT
Bottom	200A	1SCA153427R1001	OXB200E3S2QB
	250A	1SCA153456R1001	OXB250E3S2QB
	315A	1SCA153501R1001	OXB315E3S2QB
	400A	1SCA153515R1001	OXB400E3S2QB
	500A	1SCA151025R1001	OXB500E3S2QB
	630A	1SCA151054R1001	OXB630E3S2QB
	800A	1SCA150934R1001	OXB800E3S2QB
	1000A	1SCA153577R1001	OXB1000E3S2QB
	1250A	1SCA153610R1001	OXB1250E3S2QB
	1600A	1SCA153622R1001	OXB1600E3S2QB

To know more

Transfer switches - Manual, motorized, automatic and bypass switches  
<https://bit.ly/30Ond1G>

Automatic transfer switches TruONE™  
<https://bit.ly/3moFwCe>



# KSE, OKA, OT, OTL, ONE20, BW, OTP







## Enclosed & safety switches, isolators

ABB offers enclosed & safety switches for any application. With series built in plastic, aluminum, sheet steel as well as stainless steel, the offer covers commercial, industrial, fire rated and ATEX requirements with a best of class quality.

- One of the most complete offering worldwide
- Side operated switches available for a more compact installation
- Safe position indication of the lever
- Padlockable levers
- F200-F300-F400 fire rated offers available
- Made in Europe



### Panorama of standard IEC offering

Aluminum		Sheet steel	Plastic		
					
<b>KSE</b>	<b>OKA</b>	<b>OT, OTL</b>	<b>ONE20</b>	<b>BW</b>	<b>OTP</b>
IP65	IP65	IP65	IP67	IP54	IP65
2-3-4P	3-4P	3-4-6P	2-3-4P	2-3-4-6P	3-4-6P
16...63A	16...600A	16...1250A	20A	16...40A	16...90A
Side lever	Front lever	Front lever	Front lever	Side lever	Front lever

### Runner items - Aluminum

Material	Range	Poles	Rated current		Code	Designation
			AC23 415V			
Aluminum	KSE	2	16A		2CMA142411R1000	KSE225DP
Aluminum	KSE	2	32A		2CMA142414R1000	KSE240DP
Aluminum	KSE	2	63A		2CMA144587R1000	KSE263DP
Aluminum	KSE	3	16A		2CMA142412R1000	KSE325TPN
Aluminum	KSE	3	25A		2CMA142415R1000	KSE340TPN
Aluminum	KSE	3	45A		2CMA144580R1000	KSE363TPN
Aluminum	KSE	3	75A		2CMA144583R1000	KSE380TPN
Aluminum	KSE	3	80A		2CMA144585R1000	KSE3100TPN
Aluminum	KSE	3	90A		2CMA144588R1000	KSE3125TPN
Aluminum	OKA	3	16A		1SCA142683R1001	OKA16S3G
Aluminum	OKA	3	20A		1SCA142685R1001	OKA25S3G
Aluminum	OKA	3	23A		1SCA142687R1001	OKA40S3G
Aluminum	OKA	3	63A		1SCA142689R1001	OKA63S3G

## Runner items – Sheet steel

Material	Range	Poles	Rated current		Designation
			AC23 415V	Code	
sheet steel	OTL	3	16A	1SCA022562R1260	OTL16B3M
sheet steel	OTL	3	20A	1SCA022562R2400	OTL25B3M
sheet steel	OTL	3	23A	1SCA022562R3630	OTL32B3M
sheet steel	OTL	3	45A	1SCA022562R4790	OTL45B3M
sheet steel	OTL	3	75A	1SCA022562R5920	OTL63B3M
sheet steel	OTL	3	80A	1SCA022562R8350	OTL100B3B
sheet steel	OTL	3	90A	1SCA022562R9590	OTL125B3B
sheet steel	OTL	3	125A	1SCA148274R1001	OT125GLUU3BZ
sheet steel	OTL	3	160A	1SCA148267R1001	OT160EVLUU3BZ
sheet steel	OTL	3	200A	1SCA022602R0630	OT200KLUU3BZ
sheet steel	OTL	3	250A	1SCA022602R0710	OT250KLUU3BZ
sheet steel	OTL	3	315A	1SCA022572R6010	OT315KLUU3BZ
sheet steel	OTL	3	400A	1SCA022602R0800	OT400DLUU3BZ
sheet steel	OTL	3	570A	1SCA022750R1510	OT630KLUU3BZ
sheet steel	OTL	3	720A	1SCA022750R1600	OT800KLUU3BZ
sheet steel	OTL	3	1000A	1SCA022750R1780	OT1000KLUU3BZ
sheet steel	OTL	3	1250A	1SCA022750R1860	OT1250KLUU3BZ
sheet steel	OTL	3	1250A*	1SCA022750R1940	OT1600KLUU3BZ

\* 1600A AC22

## Runner items – Plastic

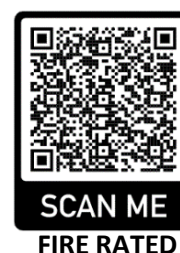
Material	Range	Poles	Rated current		Designation
			AC23 415V	Code	
Plastic	ONE20	2	15A	1SCA135532R1001	ONE20M2G
Plastic	ONE20	3	15A	1SCA135535R1001	ONE20M3G
Plastic	ONE20	4	15A	1SCA135538R1001	ONE20M4G
Plastic	BW	2	16A	2CMA142400R1000	BW225DP
Plastic	BW	2	40A	2CMA142407R1000	BW240DP
Plastic	BW	3	16A	2CMA142447R1000	BW316TPN
Plastic	BW	3	32A	2CMA142408R1000	BW340TPN
Plastic	OTP	3	16A	1SCA022383R2130	OTP16B3M
Plastic	OTP	3	20A	1SCA022383R2640	OTP25B3M
Plastic	OTP	3	23A	1SCA022389R8400	OTP32B3M
Plastic	OTP	3	45A	1SCA022383R3020	OTP45B3M
Plastic	OTP	3	75A	1SCA022383R3450	OTP63B3M
Plastic	OTP	3	80A	1SCA126054R1001	OTP100B3M
Plastic	OTP	3	90A	1SCA022812R7180	OTP125B3M

### To know more

General catalogue: <https://bit.ly/3J1XTqh>

Fire rated switches catalogue: <https://bit.ly/3qfr7Jx>

Contact us: [info.center@qa.abb.com](mailto:info.center@qa.abb.com)



## AF, TF

### Contactors 3P and 4P, thermal relays

**AF** contactors cover wide applications with 3P and 4P solutions and rated currents from 9A AC3 up to 1060A AC3, 2850A AC1. Its electronic coil technology offers versatility and ease of use thanks to its wide control voltage ranges and the integration of surge protection.

- Wide voltage ranges, in AC and DC
- Reduction in the number of codes
- Integrated surge protection
- Unique range from 9 to 1060A AC3, 2850A AC1
- Energy consumption reduced by 80%
- Control voltage available 24...60 VAC/DC, 48...130 VAC/DC, 100...250 VAC/DC, 250...500 VAC/DC
- Made in Europe



#### Runner items

Control voltage 100-250V 50Hz / 60Hz / DC. Values @ 415 V 40degC or similar

Poles	Current	Current	Code	Designation	Embedded auxiliary contacts
	AC3	AC1			
3P	9A	25A	1SBL137001R1310	AF09-30-10-13	1NO
	12A	28A	1SBL157001R1310	AF12-30-10-13	1NO
	18A	30A	1SBL177001R1310	AF16-30-10-13	1NO
	26A	45A	1SBL237001R1300	AF26-30-00-13	-
	32A	42A	1SBL277001R1300	AF30-30-00-13	-
	38A	50A	1SBL297001R1300	AF38-30-00-13	-
	40A	70A	1SBL347001R1300	AF40-30-00-13	-
	53A	100A	1SBL367001R1300	AF52-30-00-13	-
	65A	105A	1SBL387001R1300	AF65-30-00-13	-
	80A	125A	1SBL397001R1300	AF80-30-00-13	-
	96A	130A	1SBL407001R1300	AF96-30-00-13	-
	116A	160A	1SFL427001R1300	AF116-30-00-13	-
	140A	200A	1SFL447001R1300	AF140-30-00-13	-
	146A	225A	1SFL467001R1300	AF146-30-00-13	-
	190A	275A	1SFL487002R1300	AF190-30-00-13	-
	205A	350A	1SFL527002R1300	AF205-30-00-13	-
400A	600A	1SFL577001R7011	AF400-30-11-70	1NO+1NC	
750A	1050A	1SFL637001R7011	AF750-30-11-70	1NO+1NC	
4P	9A	25A	1SBL137201R1300	AF09-40-00-13	-
	18A	30A	1SBL177201R1300	AF16-40-00-13	-
	21A	45A	1SBL237201R1300	AF26-40-00-13	-
	21A	55A	1SBL297201R1300	AF38-40-00-13	-
	40A	70A	1SBL347201R1300	AF40-40-00-13	-
	53A	100A	1SBL367201R1300	AF52-40-00-13	-
	80A	125A	1SBL397201R1300	AF80-40-00-13	-
116A	160A	1SFL427101R1300	AF116-40-00-13	-	



## Selected accessories for contactors

Compatible with	Type of accessory	Code	Designation
AF09...96	Auxiliary contact 1NO	1SBN010110R1010	CA4-10
AF09...96	Auxiliary contact 1NC	1SBN010110R1001	CA4-01
AF116...370	Front auxiliary contact 1NO+1NC	1SFN010820R1011	CAL19-11
AF09...38	Electromechanical interlock	1SBN030111R1000	VEM4
AF40...96	Mechanical interlock	1SBN033405T1000	VM96-4
AF116...370	Mechanical interlock	1SFN030300R1000	VM19

## Thermal relays, class 10.

Thermal relays cover applications up to 200A, while electronic versions cover up to 1250A.

Compatible with	Current setting range	Code	Designation
AF09...38	4.2 ... 5.7A	1SAZ721201R1038	TF42-5.7
AF09...38	5.7 ... 7.6A	1SAZ721201R1040	TF42-7.6
AF09...38	7.6 ... 10A	1SAZ721201R1043	TF42-10
AF09...38	10 ... 13A	1SAZ721201R1045	TF42-13
AF09...38	13 ... 16A	1SAZ721201R1047	TF42-16
AF09...38	16 ... 20A	1SAZ721201R1049	TF42-20
AF09...38	20 ... 24A	1SAZ721201R1051	TF42-24
AF09...38	24 ... 29A	1SAZ721201R1052	TF42-29
AF09...38	29 ... 35A	1SAZ721201R1053	TF42-35
AF09...38	35 ... 40A	1SAZ721201R1055	TF42-38
AF40...65	22 ... 28A	1SAZ811201R1001	TF65-28
AF40...65	25 ... 33A	1SAZ811201R1002	TF65-33
AF40...65	30 ... 40A	1SAZ811201R1003	TF65-40
AF40...65	36 ... 47A	1SAZ811201R1004	TF65-47
AF40...65	44 ... 53A	1SAZ811201R1005	TF65-53
AF40...65	50 ... 60A	1SAZ811201R1006	TF65-60
AF40...65	57 ... 67A	1SAZ811201R1007	TF65-67

## To know more

Catalogue

<https://bit.ly/3pdluMB>

Contact us: [info@qa.abb.com](mailto:info@qa.abb.com)



Looking for the most compact contactors for your automation applications? Check the ABB **B6-B7** range!



More information is available in the same catalogue as AF contactors.

# PSR, PSE, PSTX

## Softstarters

**PSR** is our most compact softstarter with essential performance and is suitable for small motors, from 3 to 105A. PSR can handle up to 100 starts per hour. **PSRC** is an adapted version for scroll compressors.

**PSE** is a true general purpose softstarter. It is a perfect balance between high starting capacity and cost efficiency, from 18 to 370A.

**PSTX** is the most complete solution for any motor starting application from 30 to 1250A. Featuring built-in modbus and anybus modules, it supports all major communication protocols.



- Embedded bypass in all versions, no need for additional contactors and logic
- PSTX offers the most advanced features to save money in your projects
- Easy selection for standard uses and dedicated software for advanced projects
- Fully compatible with ABB control products and available in SOC selection charts

### Runner items

Rated control supply voltage, Us 100...240 V AC, 50/60 Hz or similar or similar  
Normal start, class 10, in-line (for inside delta please refer to the catalogue).

### PSR - The compact range

Rated current	IEC rated power kW @400V	Code	Designation
3.9 A	1.5 kW	1SFA896103R7000	PSR3-600-70
6.8 A	3 kW	1SFA896104R7000	PSR6-600-70
9 A	4 kW	1SFA896105R7000	PSR9-600-70
12 A	5.5 kW	1SFA896106R7000	PSR12-600-70
16 A	7.5 kW	1SFA896107R7000	PSR16-600-70
25 A	11 kW	1SFA896108R7000	PSR25-600-70
30 A	15 kW	1SFA896109R7000	PSR30-600-70
37 A	18.5 kW	1SFA896110R7000	PSR37-600-70
45 A	22 kW	1SFA896111R7000	PSR45-600-70
60 A	30 kW	1SFA896112R7000	PSR60-600-70
72 A	37 kW	1SFA896113R7000	PSR72-600-70
85 A	45 kW	1SFA896114R7000	PSR85-600-70
105 A	55 kW	1SFA896115R7000	PSR105-600-70

## PSE - The efficient range

Rated current	IEC rated power kW @400V	Code	Designation
18 A	7.5 kW	1SFA897101R7000	PSE18-600-70
25 A	11 kW	1SFA897102R7000	PSE25-600-70
30 A	15 kW	1SFA897103R7000	PSE30-600-70
37 A	18.5 kW	1SFA897104R7000	PSE37-600-70
45 A	22 kW	1SFA897105R7000	PSE45-600-70
60 A	30 kW	1SFA897106R7000	PSE60-600-70
72 A	37 kW	1SFA897107R7000	PSE72-600-70
85 A	45 kW	1SFA897108R7000	PSE85-600-70
106 A	55 kW	1SFA897109R7000	PSE105-600-70
143 A	75 kW	1SFA897110R7000	PSE142-600-70
171 A	90 kW	1SFA897111R7000	PSE170-600-70
210 A	110 kW	1SFA897112R7001	PSE210-600-70-1
250 A	132 kW	1SFA897113R7001	PSE250-600-70-1
300 A	160 kW	1SFA897114R7001	PSE300-600-70-1
370 A	200 kW	1SFA897115R7001	PSE370-600-70-1

## PSTX - The advanced range

Rated current	IEC rated power kW @400V	Code	Designation
30 A	15 kW	1SFA898103R7000	PSTX30-600-70
37 A	18.5 kW	1SFA898104R7000	PSTX37-600-70
45 A	22 kW	1SFA898105R7000	PSTX45-600-70
60 A	30 kW	1SFA898106R7000	PSTX60-600-70
72 A	37 kW	1SFA898107R7000	PSTX72-600-70
85 A	45 kW	1SFA898108R7000	PSTX85-600-70
106 A	55 kW	1SFA898109R7000	PSTX105-600-70
143 A	75 kW	1SFA898110R7000	PSTX142-600-70
171 A	90 kW	1SFA898111R7000	PSTX170-600-70
210 A	110 kW	1SFA898112R7000	PSTX210-600-70
250 A	132 kW	1SFA898113R7000	PSTX250-600-70
300 A	160 kW	1SFA898114R7000	PSTX300-600-70
370 A	200 kW	1SFA898115R7000	PSTX370-600-70
470 A	250 kW	1SFA898116R7000	PSTX470-600-70
570 A	315 kW	1SFA898117R7000	PSTX570-600-70
720 A	400 kW	1SFA898118R7000	PSTX720-600-70
840 A	450 kW	1SFA898119R7000	PSTX840-600-70
1050 A	560 kW	1SFA898120R7000	PSTX1050-600-70
1250 A	710 kW	1SFA898121R7000	PSTX1250-600-70

### To know more

Catalogue: <https://bit.ly/3phKYsw>

Contact us: [info@qa.abb.com](mailto:info@qa.abb.com)



# MS116, MS132, MS165, MO132, MO165

## Manual Motorstarters up to 80A

Manual Motorstarters combine control and motor protection in a single device. The range is composed of three frame sizes: **MS116** and **MS132** up to 32A and **MS165** up to 80A. The MS132 and MS165 ranges offer superior performance and functionality while the **MO** versions offer pure magnetic protection

- Breaking capacity up to 100kA
- Rotary handle
- Temperature compensation
- For coordination type 1 and 2
- Phase failure protection
- For MS132 and MS165, “trip” triggered position for notification of the fault and possible padlocking
- Compatible with IE3 type motors
- Made in Europe



### Runner codes

Range	Current setting	Power kW @400V AC3	Code	Designation
MS116	2.5 ... 4.0 A	1.5	1SAM250000R1008	MS116-4.0
	4 ... 6.3 A	2.2	1SAM250000R1009	MS116-6.3
	6.3 ... 10 A	4	1SAM250000R1010	MS116-10
	10 ... 16 A	7.5	1SAM250000R1011	MS116-16
	16 ... 20 A	7.5	1SAM250000R1013	MS116-20
	20 ... 25 A	11	1SAM250000R1014	MS116-25
	25 ... 32 A	15	1SAM250000R1015	MS116-32
MS132	2.5 ... 4 A	1.5	1SAM350000R1008	MS132-4.0
	4 ... 6.3 A	2.2	1SAM350000R1009	MS132-6.3
	6.3 ... 10 A	4	1SAM350000R1010	MS132-10
	10 ... 16 A	7.5	1SAM350000R1011	MS132-16
	16 ... 20 A	7.5	1SAM350000R1013	MS132-20
	20 ... 25 A	11	1SAM350000R1014	MS132-25
	25 ... 32 A	15	1SAM350000R1015	MS132-32
MS165	30 ... 42 A	22	1SAM451000R1015	MS165-42
	40 ... 54 A	22	1SAM451000R1016	MS165-54
	52 ... 65 A	30	1SAM451000R1017	MS165-65
	62 ... 73 A	37	1SAM451000R1018	MS165-73
	70 ... 80 A	45	1SAM451000R1019	MS165-80

### To know more

Catalogue

<https://bit.ly/3pdluMB>



Type	Code	Designation
Aux contact, front mounting	1SAM201901R1001	HKF1-11
Aux contact, side mounting	1SAM201902R1001	HK1-11
Trip signal contact	1SAM201903R1001	SK1-11
Short-circuit signal contact	1SAM301901R1001	CK1-11

External handle available, see the catalogue page 2/45

Contact us: [info@qa.abb.com](mailto:info@qa.abb.com)

# CT-C, CM


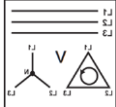
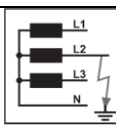
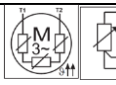
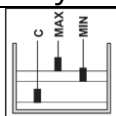
## Electronic relays: timers, phase monitoring, temperature

ABB offers a wide range of electronic relays for a variety of applications, with the common benefit of ease of implementation and proven service life

- Recognized quality and lifespan
- Easy to implement
- Solutions available for basic to advanced requirements



### Runner items

Type	Code	Version	Description
 Timers	1SVR508020R1100	CT-MFC.21	<b>Multifunctional</b> 2c/o, 12-240VAC/DC ON-delay, OFF-delay with auxiliary voltage, Impulse-ON, Impulse-OFF with auxiliary voltage, Flasher starting with ON, Flasher starting with OFF, Pulse former
	1SVR508100R0100	CT-ERC.22	<b>ON-delay</b> 2c/o, 24-48VDC/24-240VAC
	1SVR508110R0100	CT-AHC.22	<b>OFF-delay</b> 2c/o, 24-48VDC/24-240VAC
	1SVR508211R0100	CT-SDC.22	<b>Star-delta</b> 2n/o, 24-48VDC/24-240VAC
	 Phase monitoring	1SVR730794R3300	CM-PVS.41S
1SVR550871R9500		CM-PVE	<b>Single or three phase monitoring</b> relay 1 n/o (closed circuit principle) L1-L2-L3=320-460VAC Over- and undervoltage, phase failure
 Insulation	1SVR730660R0100	CM-IWS.1S	<b>Insulation monitoring</b> relay 1c/o, 1-100kOhm, 24-240VAC/DC
 Temperature relays	1SVR730700R0100	CM-MSS.12S	<b>Thermistor motor</b> protec. relay 1c/o, 24VAC/DC
	1SVR730740R0300	CM-TCS.13S	<b>Temperature monitoring</b> relay Temp.-range 0...+200°C, 24-240VAC/DC, for PT100
 Liquid level	1SVR730850R0100	CM-ENS.11S	<b>Liquid level</b> monitoring relay 1c/o, sens. 5-100kΩ Min and max liquid level control, dry running protection, overflow protection,

### To know more

Catalogue: <https://bit.ly/3Ft2TBO>

Contact us: [info@qa.abb.com](mailto:info@qa.abb.com)





## AD, DW, TL

### Timers and twilight switches

ABB offers a wide range of switches to cover all the applications, with technology based on light measurement as well as signal receipt from a fixed point or GPS. Made in Europe.

#### AD Line electro-mechanical time switches - runner items

Controlling your loads based on your time schedule.

Range	Min. interval	Reserve	Code	Designation	Contacts
Day	15 min	150 hours	2CSM222461R1000	AD1NO-R-15m	1 NO
Day	15 min	-	2CSM222421R1000	AD1CO-15m	1 c/o
Day	15 min	150 hours	2CSM208151R1000	AD1CO-R-15m	1 c/o
Week	120 min	150 hours	2CSM208141R1000	AW1CO-R 120m	1 c/o



#### DW Digital timers – runner items

Controlling your loads based on your time schedule.

Type	Code	Designation
1 channel	2CSM222531R1000	DW1
2 channels	2CSM222521R1000	DW2



#### Accessories for synchronisation

Type	Code	Designation
Antenna DCF77 – for Germany signal	2CSM299983R0621	D DCF77
Antenna GPS Worldwide signal	2CSM299993R0621	D GPS



#### TL Line modular twilight switches- runner items

Controlling your loads based on the ambient light

Setting	Sensitivity Lux	Supply voltage	Code	Designation
Factory setting 10 Lux	2 ... 200	110 ± 230VAC	2CSM229921R1341	TL1
Factory setting 10 Lux, for dark areas. Pole mounting	2 ... 200	110 ± 230VAC	2CSM229911R1341	TL1 POLE



#### To know more

Smart Building catalogue <https://bit.ly/3yLONmd>

Contact us: [info@qa.abb.com](mailto:info@qa.abb.com)



# CL, CP

## Compact pilot devices

The compact range is ABB most efficient solution to reduce installation time and costs with an all-in-one model. It is perfectly suited for harsh environments and has the best resistance to dust and water on the market.

- Simple solutions, in one code
- Longer lifespan
- Tested up to 10 million cycles
- Patented automatic contact cleaning
- Degree of protection IP66 on most products
- Suitable for use with 6.3V to 415V, in AC and DC
- Modular range also available for advanced needs



### Runner items

Type	Description	Code	Designation
Pilot lamp LED 230VAC	Red	1SFA619403R5231	CL2-523R
	Green	1SFA619403R5232	CL2-523G
	Yellow	1SFA619403R5233	CL2-523Y
	Blue	1SFA619403R5234	CL2-523L
	White	1SFA619403R5238	CL2-523C
Non-illuminated momentary pushbutton, 1NO+1NC	Red	1SFA619100R1071	CP1-10R-11
	Green	1SFA619100R1072	CP1-10G-11
	Yellow	1SFA619100R1073	CP1-10Y-11
	Blue	1SFA619100R1074	CP1-10L-11
	White	1SFA619100R1075	CP1-10W-11
	Black	1SFA619100R1076	CP1-10B-11
Illuminated momentary pushbutton 220VAC/DC, 1NO+1NC	Red	1SFA619100R1311	CP1-13R-10
	Green	1SFA619100R1312	CP1-13G-10
	Yellow	1SFA619100R1313	CP1-13Y-10
	Blue	1SFA619100R1314	CP1-13L-10
	White	1SFA619100R1318	CP1-13C-10
Emergency stop ø40mm 1NO+1NC, twist release		1SFA619550R1071	CE4T-10R-11
Selector Switch	2 positions 1NO	1SFA619200R1016	C2SS1-10B-10
	3 positions 1NO+1NC	1SFA619210R1076	C3SS1-10B-11

### To know more

Catalogue <https://bit.ly/2YS3j24>

Contact us: [info@qa.abb.com](mailto:info@qa.abb.com)



Discover ABB **E210** range of pilot lamps and controls to reduce the dimensions of your panels and cut-down your assembly and wire costs!

**Three phases signaling in only 9mm width!**

# Industrial plugs and sockets

Reliable, durable and safe. Perfect for your application

ABB Industrial Plugs and Sockets are employed for connection of equipment in all kind of applications where it needs to be possible to connect and disconnect

- Self-cleaning and calibrated contacts, to maintain the accurate contact pressure, quality and performance over time
- Clear marking
- Experience for more than 60 years
- Made in Europe



## Plugs

Rating	Terminals	Color	IP44		IP67	
			ABB code	Designation	ABB code	Designation
16A	3 (2P+E)	Blue	2CMA101947R1000	216EP6	2CMA101072R1000	216EP6W
32A	3 (2P+E)	Blue	2CMA101975R1000	232EP6	2CMA101095R1000	232EP6W
32A	4 (3P+E)	Red	2CMA101984R1000	332EP6	2CMA101103R1000	332EP6W
32A	5 (3P+N+E)	Red	2CMA101995R1000	432EP6	2CMA101112R1000	432EP6W
63A	5 (3P+N+E)	Red	2CMA166764R1000	463P6	2CMA166798R1000	463P6W
125A	5 (3P+N+E)	Red	-	-	2CMA166828R1000	4125P6W

## Socket / Inlet for panel mounting

Rating	Terminals	Color	IP44		IP67	
			ABB code	Designation	ABB code	Designation
16A	3 (2P+E)	Blue	2CMA193338R1000	216B6	2CMA101259R1000	216EBU6W
32A	3 (2P+E)	Blue	2CMA193434R1000	232BU6	2CMA101275R1000	232EBU6W
32A	4 (3P+E)	Red	2CMA193442R1000	332BU6	2CMA101279R1000	332EBU6W
32A	5 (3P+N+E)	Red	2CMA193451R1000	432BU6	2CMA101285R1000	432EBU6W
63A	5 (3P+N+E)	Red	2CMA167234R1000	463BU6	2CMA168115R1000	463BU6W
125A	5 (3P+N+E)	Red	-	-	2CMA167142R1000	4125RU6W

## Switched interlocked socket outlet

Rating	Terminals	Color	IP degree	Material	ABB code	Designation
63A	5 (3P+N+E)	Red	IP44	Metal	2CMA168042R1000	463MM6
125A	5 (3P+N+E)	Red	IP44	Metal	2CMA168053R1000	4125MM6
63A	5 (3P+N+E)	Red	IP67	Plastic	2CMA167905R1000	463MHS6W

## To know more

Catalogue: <https://bit.ly/32prt0x>

Contact us: [info@qa.abb.com](mailto:info@qa.abb.com)



## Millenium, Inora, Metal clad

### Wiring accessories

ABB offers three ranges of wiring accessories, starting with **Inora** and its timeless design for the most common applications, to **Millenium** and its amazing finishing and completed with a **Metal Clad** offer for the back of the house. Enjoy brighter buildings with ABB wiring accessories!

Cool. Conspicuous. Clever. Striking metal and pure glass light switches in square and ultra slim designs.

**Millenium** surprises with its complexity and functional solutions designed for any interior, any building. A wide range of KNX sensors meet the highest of customer demands. Engineered to offer maximum comfort and happiness

Available in 8 colors, metal and glass  
Made in Spain



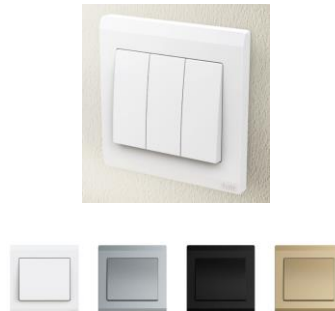
To know more:  
<https://bit.ly/3pfKe6X>



SCAN ME

The **Inora** range has been designed with quality, functionality and simplicity in mind. With clean lines, gently curved rockers, and stylish chamfer frames on the top and bottom the Inora range is highly sophisticated. The unobstrusive design coordinates effortlessly with any interior design scheme.

Available in 4 colors



To know more:  
<https://bit.ly/3pghriB>



SCAN ME

The **Metal clad** range of surface mounted wiring devices is designed to be robust and resistant thanks to the high-quality coated metal plate. Capable of meeting wiring requirements in all commercial and light industrial applications. It is ideal for use in service areas, parking areas, workshops, factories, warehouses, laboratories, hospitals, and as well as domestic application in lofts and garages.



Top know more:  
<https://bit.ly/3pdBcHM>



SCAN ME



# Building automation portfolio

Extend your horizons

ABB offers a wide range of solutions for residential applications with **free@home**, commercial buildings with **ABB iBus KNX** to the advanced BMS/HVAC control with **Cylon** offering. **Welcome IP** completes the offering with Door Entry solutions.



Make a step ahead with ABB Building Automation portfolio!

**Small/medium Building Automation free@home®** transforms the house or the apartment into an intelligent home. Whether blinds, lights, heating, air conditioning, door communication or scenes. Easy to remote control via a switch on the wall, with the laptop or with the smartphone.



To know more:  
<https://bit.ly/3EiGcix>



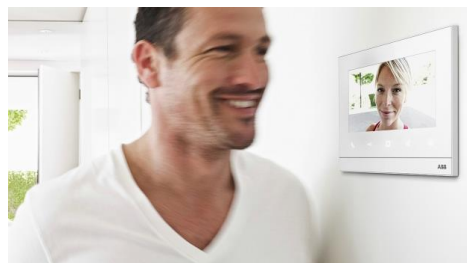
**Lighting control system / GRMS**  
**ABB's i-bus® KNX** devices are used to control a host of operations in buildings, including lighting, heating, and security. By responding to insights gained through data collected by numerous sensors these intelligent devices help bring energy savings as much as 30 percent, when compared to conventional non-automated systems.



To know more:  
<https://bit.ly/3sk9tHj>



**Door Entry System**  
**Welcome IP** is an innovative door communication system suitable for all building types. The individual devices are integrated with a LAN cable. The PoE connection makes further wiring superfluous and simplifies the serial connection of door communication devices



Top know more:  
<https://bit.ly/3FgexA0>



**Building Management System / HVAC**  
**Cylon** offer provides building automation and HVAC control solutions, delivering operational efficiency, energy and comfort solutions for commercial and retail buildings, schools and healthcare facilities.



To know more:  
<https://bit.ly/3J7JZmh>



## Selection tools

Free of charge tools for daily use

### E-Configure online catalogs

Intuitive selection of ABB products online based on key parameters. Possibility to select compatible accessories.

Link : [www.econfigure.xe.abb.com/global/#/](http://www.econfigure.xe.abb.com/global/#/)



### Products datasheets

Search for a product code with your favorite browser or enter the following

address:[www.new.abb.com/products/ITEM\\_CODE](http://www.new.abb.com/products/ITEM_CODE)

Example : [www.new.abb.com/products/1SDA071494R1](http://www.new.abb.com/products/1SDA071494R1)

Download more product information in the "Downloads" section of the datasheet: manuals, brochures, certificates..



### SOC - Selected Optimized Coordination

Selection of ABB certified motor starters solutions, discrimination and backup tables

Link : [www.applications.it.abb.com/SOC/Page/Selection.aspx](http://www.applications.it.abb.com/SOC/Page/Selection.aspx)



### ABB PartnerHub – Collaboration Platform

A platform to design projects, share with clients and share with ABB teams.

Link: <https://partnerhub.connect.abb.com/>



### ABB Connect app for smartphone and tablets

ABB Connect helps you to find product information and stay connected to the latest news and tools.

Link: <https://new.abb.com/about/our-businesses/electrification/abb-connect>

Download with your smartphone



### EL Academy – course finder

Access to free of charge online training on ABB products and solutions, available 24/7. Get enrolled to boost your business!

Link: <https://electrification.coursefinder.abb.com/#/>





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