Summer
2023



ABB QATAR ELECTRIFICATION

Essential Solutions Guide

Electrifying Qatar in a safe, smart and sustainable way

Find ABB Partners

- M1M power meters
- Fire rated Enclosed Switches
- Weatherproof covers
- SRB panels ...and more!

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

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Minicenter

Distribution Boards and Consumer Units

MADE IN QATAR



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

- Manufactured 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 SHD203, E203 insulators or S203/SH203 MCBs. The Din rail incomer kit is included.

Feeders: compatible with S200, SH200, DSE201, DSE201 M, DSE203N M.

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

	Surface mounting		Flush mounting	
Ways	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 ext. H200 with Din rail	1SKA254142C0001Q	EMC 200S EXB S	1SKA254242C0001Q	EMC 200S EXB F
Top/bot. ext. H200 with plate	1SKA252142C0001Q	EMC 200 EXB S	1SKA252242C0001Q	EMC 200 EXB F

Minicenter – Row type

Empty panel for Din rail free mounting

	Width, in mod	Surface mounting		Flush mounting	
Rows	of 17.5mm	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

Catalogue: www.bit.ly/3zn6b8e

Please reach our Sales Representative for more information and for any specific requests for your projects. Contact us: info@qa.abb.com

SHD200, E200

Isolators



Based on the long experience on Din rail products ABB provides two ranges of DIN rail switches: SHD200 up to 63A, completed with E200 range up to 125A.

- 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 www.bit.ly/3yLOnmd
Contact us: info@qa.abb.com

Types of Minicenter DBs



Way type



Row type



Flush mounting



Surface mounting

S200, SH200

MCBs up to 63A

The S200 and SH200 Miniature 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 www.bit.ly/3yLOnmd
Contact us: info@qa.abb.com

DSE201, DSE203N

Electronic RCBO



ABB electronic RCBO meet the requirements of any project in the Gulf with short circuit rating up to 10kA and rated current up to 63A.
The offer is now enriched with 3P+N RCBO to streamline your installations, replacing combinations of 3P MCBs + 4P RCCBs in a seamless design.
Both ranges are fully compatible with ABB Minicenter distribution boards and meet the highest international standards.

- Two trip indicators on DSE201 M (10kA 1P+N)
- 3P RCBO lines without any extra wiring and space

Runner items: type AC 30mA
Example: 2CSR275053R1164 DSE201 M C16 AC30

Rating	DSE201 1P+N		DSE203N* 3P+N
	6kA	10kA	10kA
6A	2CSR255053R1064	2CSR275053R1064	2TAZ233414R2064
10A	2CSR255053R1104	2CSR275053R1104	2TAZ233414R2104
16A	2CSR255053R1164	2CSR275053R1164	2TAZ233414R2164
20A	2CSR255053R1204	2CSR275053R1204	2TAZ233414R2204
25A	2CSR255053R1254	2CSR275053R1254	2TAZ233414R2254
32A	2CSR255053R1324	2CSR275053R1324	2TAZ233414R2324
40A	2CSR255053R1404	2CSR275053R1404	2TAZ233414R2404
50A	-	2CSR275053R1504	2TAZ233414R2504
63A	-	-	2TAZ233414R2634

*type A, covering also type AC.

Ask your Sales Referent about…

The new 3P+N RCBO

To know more
Smart Building catalogue www.bit.ly/3yLOnmd

Contact us: info@qa.abb.com

F200, FH200

RCCBs

F200 and FH200 Residual Current Circuit Breakers 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
		125 A	2CSF204001R1950	F204 AC-125/0,03
FH200	2P	25 A	2CSF202006R1250	FH202 AC-25/0,03
		40 A	2CSF202006R1400	FH202 AC-40/0,03
		63 A	2CSF202006R1630	FH202 AC-63/0,03
	4P	25 A	2CSF204006R1250	FH204 AC-25/0,03
		40 A	2CSF204006R1400	FH204 AC-40/0,03
		63 A	2CSF204006R1630	FH204 AC-63/0,03

To know more
Smart Building catalogue www.bit.ly/3yLOnmd

Contact us: info@qa.abb.com

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 contactor range, in a modular version.

- Suitable for lighting, heating, ventilation, motor starting and pump applications
- Versions with control voltage 24VAC/DC & 230V AC/DC
- Built-in surge protection
- Mechanical status indicator
- Reduced energy consumption and use of less spacers
- 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

Auxiliary contacts	Code	Designation
2NO	1SAE901901R1020	EH04-20N
1NO+1NC	1SAE901901R1011	EH04-11N

To know more

Catalogue: www.bit.ly/3dRtrOE

Contact us: 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
www.bit.ly/3yLOnmd

Power Meters, Network Analyzers

Give a final touch to your panels

NEW

Improve energy efficiency, reduce energy costs and increase power quality: three goals to achieve in order to run sustainable buildings. 'Internet of Things' devices allow real-time and accurate energy data monitoring and enable customers to improve performance while reducing impact on the environment.



Type	Code	Designation
M1M 15	2TAZ661010R2000	M1M 15
	2TAZ661012R2000	M1M 15 Modbus RTU
M1M 20	2TAZ662010R2000	M1M 20
	2TAZ662012R2000	M1M 20 Modbus RTU
M1M 30	2TAZ663012R2000	M1M 30 Modbus RTU
M4M 20	2CSG251151R4051	M4M 20
	2CSG251141R4051	M4M 20 Modbus RTU
M4M 30	2CSG239035R4051	M4M 30-M MODBUS

Power Meters offer







		M1M 15	M1M 20	M1M 30	M4M 20	M4M 30
Accuracy Class	Active Power, Energy	1% (IEC 61557-12)	1 (IEC 61557-12) Option: 0,5S	1 (IEC 61557-12) Option: 0,5S	0,5 (IEC 61557-12) 0,5S (IEC 62053-22)	0,5 (IEC 61557-12) 0,5S (IEC 62053-22)
Measurement	Direct voltage up to 690V	-	-	-	■	■
	Current via CT (…/1A or …/5A)	■	■	■	■	■
	Current via Rogowski coils	-	-	-	■	■
Real-time	Voltage, Current, Frequency	■	■	■	■	■
	Power, Power Factor	■	■	■	■	■
Energy	Active, Reactive, Apparent	■	■	■	■	■
	Import/Export	-	■	■	■	■
	Tariffs	-	-	-	-	6
Power Quality	THD (I, VLN, VLL)	-	■	■	■	■
	Harmonics/Unbalances	-/-	-/-	40th / ■	-/-	40th / ■
	Neutral current	-	Calculated	Calculated	Calculated	Measured
	Phasors, Waveforms	-	-	-	-	■
Data recording	Single alarms/Complex alarms	-/-	15 / -	15 / -	25 / -	25 / 4
	Warnings, alarms, errors	-	■	■	■	■
	Min/Max/Demand values	-	-	Basic	Basic	Advanced
	Flash memory	-	-	1MB	-	16MB
	Real Time Clock (RTC)	-	-	■	-	■
HMI	Display	LED	LCD	LCD	Graphic color	Graphic touchscreen
	Graph visualization	-	-	-	Basic	Advanced
Connectivity	Modbus RTU	■	■	■	■	■
	Modbus TCP/IP	-	■	■	■	■ (2x RJ45)
	BACnet/IP	-	-	-	■	■
	Profibus DP-V0	-	-	-	■	■
	Bluetooth Low Energy	-	-	-	■	■
	Integration in InSite	■	■	■	■	■
	Integration in Ability EDCS	-	-	-	■	■
	Standard I/O	-	-	2DO	2DO	4I/O
	Additional I/O (I/O version)	-	2DO + 2DI	2DO + 2DI	2DO + 2I/O + 2AO	6I/O + 2AO

To know more

M4M: www.bit.ly/3yLOnmd

M1M: www.bit.ly/3M8TJkt



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 Fuseholders for 10.3 x 38 mm fuses	1P 32A	2CSM200923R1801	E 91/32	
	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	2CTB812111R2300	OVR T1-T2 3N 100-255 P TS	
	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 ph. indicator	2CCA703902R0001	E219-3CDE	
	C/O switch 16A	2CCA703040R0001	E213-16-001	
	1NO+1NC 16A	2CCA703050R0001	E218-16-11	
CR-M Interface relays	Relay	1SVR405613R0000	4c/o, A1-A2=24VAC, 250V/6A	
		1SVR405613R3000	4c/o, A1-A2=230VAC, 250V/6A	
	Base	1SVR405651R3000	CR-M4SS Standard socket	
Din British standard socket	No LED	2CSM259343R0721	M1363	
	With LED	2CSM258163R0721	M1363-L	

Mirage BS

Sub Main Distribution Boards

MADE IN QATAR

Mirage BS 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 outgoings



Mirage BS 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	GDMR25-04FXT1B	1SKS304242C2310Q
	6	GDMR25-06FXT1B	1SKS306242C2310Q
	8	GDMR25-08FXT1B	1SKS308242C2310Q
	12	GDMR25-12FXT1B	1SKS312242C2310Q
	16	GDMR25-16FXT1B	1SKS316242C2310Q
A1	4	GDMR25-04FA1B	1SKS204294C3310Q
	6	GDMR25-06FA1B	1SKS206294C3310Q
	8	GDMR25-08FA1B	1SKS208294C3310Q
	12	GDMR25-12FA1B	1SKS212294C3310Q
	16	GDMR25-16FA1B	1SKS216294C3310Q
Accessories		GDMR25-ATB2B top extension box H200	1SKA660442C0101Q
		GDMR25-ATB4B top extension box H400	1SKA660442C0102Q
		GDMR25-ABP2C bottom ext. plinth H200	1SKA661442C0101Q

Mirage BS 400A
Incomer: Tmax XT5 400 (or 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	GDMR40-04FXT1B	1SKS304242C4310Q
	6	GDMR40-06FXT1B	1SKS306242C4310Q
	8	GDMR40-08FXT1B	1SKS308242C4310Q
	12	GDMR40-12FXT1B	1SKS312242C4310Q
	16	GDMR40-16FXT1B	1SKS316242C4310Q
XT3	4	GDMR40-04FXT3B	1SKS304242C4319Q
	6	GDMR40-06FXT3B	1SKS306242C4319Q
	8	GDMR40-08FXT3B	1SKS308242C4319Q
	12	GDMR40-12FXT3B	1SKS312242C4319Q
	16	GDMR40-16FXT3B	1SKS316242C4319Q

A1	4	GDMR40-04FA1B	1SKS404294C3310Q
	6	GDMR40-06FA1B	1SKS406294C3310Q
	8	GDMR40-08FA1B	1SKS408294C3310Q
	12	GDMR40-12FA1B	1SKS412294C3310Q
	16	GDMR40-16FA1B	1SKS416294C3310Q
A2	4	GDMR40-04FA2B	1SKS404294C3319Q
	6	GDMR40-06FA2B	1SKS406294C3319Q
	8	GDMR40-08FA2B	1SKS408294C3319Q
	12	GDMR40-12FA2B	1SKS412294C3319Q
	16	GDMR40-16FA2B	1SKS416294C3319Q
Accessories		GDMR40-ATB2B top extension box H250	1SKA660442C4101Q
		GDMR40-ATB4B top extension box H400	1SKA660442C4102Q
		GDMR40-ABP2C bottom ext. plinth H250	1SKA661442C4101Q

Mirage BS 630A

Incomer: Tmax XT5 630 (or 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	GDMR63-04FXT1B	1SKS304242C6310Q
	6	GDMR63-06FXT1B	1SKS306242C6310Q
	8	GDMR63-08FXT1B	1SKS308242C6310Q
	12	GDMR63-12FXT1B	1SKS312242C6310Q
	16	GDMR63-16FXT1B	1SKS316242C6310Q
XT3	4	GDMR63-04FXT3B	1SKS304242C6319Q
	6	GDMR63-06FXT3B	1SKS306242C6319Q
	8	GDMR63-08FXT3B	1SKS308242C6319Q
	12	GDMR63-12FXT3B	1SKS312242C6319Q
	16	GDMR63-16FXT3B	1SKS316242C6319Q
A1	4	GDMR63-04FA1B	1SKS604294C3310Q
	6	GDMR63-06FA1B	1SKS606294C3310Q
	8	GDMR63-08FA1B	1SKS608294C3310Q
	12	GDMR63-12FA1B	1SKS612294C3310Q
	16	GDMR63-16FA1B	1SKS616294C3310Q
A2	4	GDMR63-04FA2B	1SKS604294C3319Q
	6	GDMR63-06FA2B	1SKS606294C3319Q
	8	GDMR63-08FA2B	1SKS608294C3319Q
	12	GDMR63-12FA2B	1SKS612294C3319Q
	16	GDMR63-16FA2B	1SKS616294C3319Q
Accessories		GDMR63-ATB2B top extension box H250	1SKA660442C4105Q
		GDMR63-ATB4B top extension box H400	1SKA660442C4106Q
		GDMR63-ABP2C bottom ext. plinth H250	1SKA661442C4103Q

Selection tips

- Incomer 250A 25kA - > select XT3N
- Outgoings 1P 25kA -> select Formula A1N
- Outgoings 3P 25kA -> select Formula A1C or XT1C

For each XT1 breaker, add one set of terminals 1SDA066905R1 KIT FC Cu XT1 3pcs

To know more: Please reach our Sales Representative for more information and for any specific requests for your projects. Contact us: info@qa.abb.com

SRB

Empty enclosures with mounting plate

NEW



SR Basic the high robustness steel enclosures offer a large comprehensive dimensional range. The range consists of distribution boards for wall mounting and floor standing.
A series of rational solutions developed to achieve a complete range of capabilities and functions to meet different installation requirements.
It always conforms to IEC EN 62208 and to IEC 61439-1-2, have a degree of protection IP65 for single door cabinets and IP54 for double door cabinets (IEC EN 60529). The degree of protection against external mechanical impacts is IK10 (IEC 62262).

- Full compatibility with ABB complete package
- Mounting plate included
- Protection from dust and water jets with IP65 versions

Wall Mounting

Height	Width	Depth	Code 1.5mm	Code 2.0mm	Designation
300	200	150	1SKE302015C0001	1SKE302015C0021	SRB0302015
	300	150	1SKE303015C0001	1SKE303015C0021	SRB0303015
400	300	150	1SKE403015C0001	1SKE403015C0021	SRB0403015
		200	1SKE403020C0001	1SKE403020C0021	SRB0403020
500	400	150	1SKE504015C0001	1SKE504015C0021	SRB0504015
		200	1SKE504020C0001	1SKE504020C0021	SRB0504020
600	400	150	1SKE604015C0001	1SKE604015C0021	SRB0604015
		200	1SKE604020C0001	1SKE604020C0021	SRB0604020
		250	1SKE604025C0001	1SKE604025C0021	SRB0604025
	600	250	1SKE606025C0001	1SKE606025C0021	SRB0606025
700	500	200	1SKE705020C0001	1SKE705020C0021	SRB0705020
		250	1SKE705025C0001	1SKE705025C0021	SRB0705025
800	600	200	1SKE806020C0001	1SKE806020C0021	SRB0806020
		250	1SKE806025C0001	1SKE806025C0021	SRB0806025
		300	1SKE806030C0001	1SKE806030C0021	SRB0806030
	800	300	1SKE808030C0001	1SKE808030C0021	SRB0808030
1000	600	200	1SKE106020C0001	1SKE106020C0021	SRB1006020
		250	1SKE106025C0001	1SKE106025C0021	SRB1006025
		300	1SKE106030C0001	1SKE106030C0021	SRB1006030
	800	200	1SKE108020C0001	1SKE108020C0021	SRB1008020
		250	1SKE108025C0001	1SKE108025C0021	SRB1008025
		300	1SKE108030C0001	1SKE108030C0021	SRB1008030

Single Door Floor Standing

Height	Width	Depth	Code 1.5mm	Code 2.0mm	Designation
1200	600	250	1SKE126025C0001	1SKE126025C0021	SRB1206025
		300	1SKE126030C0001	1SKE126030C0021	SRB1206030
	800	250	1SKE128025C0001	1SKE128025C0021	SRB1208025
		300	1SKE128030C0001	1SKE128030C0021	SRB1208030
1400	800	300	1SKE148030C0001	1SKE148030C0021	SRB1408030
		400	1SKE148040C0001	1SKE148040C0021	SRB1408040
1600	800	300	1SKE168030C0001	1SKE168030C0021	SRB1608030
		400	1SKE168040C0001	1SKE168040C0021	SRB1608040
1800	800	300	1SKE188030C0001	1SKE188030C0021	SRB1808030
		400	1SKE188040C0001	1SKE188040C0021	SRB1808040

Double Door Floor Standing

Height	Width	Depth	Code 1.5mm	Code 2.0mm	Designation
1000	1000	300	1SKE101030C0001	1SKE101030C0021	SRB10010030
1200	1000	300	1SKE121030C0001	1SKE121030C0021	SRB12010030
		400	1SKE121040C0001	1SKE121040C0021	SRB12010040
1400	1000	300	1SKE141030C0001	1SKE141030C0021	SRB14010030
		400	1SKE141040C0001	1SKE141040C0021	SRB14010040
1600	1000	300	1SKE161030C0001	1SKE161030C0021	SRB16010030
		400	1SKE161040C0001	1SKE161040C0021	SRB16010040
1800	1000	300	1SKE181030C0001	1SKE181030C0021	SRB18010030
		400	1SKE181040C0001	1SKE181040C0021	SRB18010040
	1200	300	1SKE181230C0001	1SKE181230C0021	SRB18012030
		400	1SKE181240C0001	1SKE181240C0021	SRB18012040

Plinth for floor standing panels

Height	Width	Depth	Ordering Code 1.5mm Thick	Ordering Code 2.0mm Thick	Designation
100	800	300	1SKE908030C0001	1SKE908030C0021	SRBP1008030
		400	1SKE908040C0001	1SKE908040C0021	SRBP1008040
	1000	300	1SKE910030C0001	1SKE910030C0021	SRBP1010030
		400	1SKE910040C0001	1SKE910040C0021	SRBP1010040
	1200	300	1SKE912030C0001	1SKE912030C0021	SRBP1012030
		400	1SKE912040C0001	1SKE912040C0021	SRBP1012040

To know more

Catalogue : www.bit.ly/3Kk3FGp

Please reach our Sales Representative for more information and for any specific requests for your projects. Contact us: info@qa.abb.com

Tmax XT

MCCBs up to 1600A

Tmax XT Molded Case Circuit Breakers, simple to install and with increased safety, guarantee exceptional performance in a reduced footprint.
The range has seven frame sizes: XT1, XT2 up to 160 A, XT3, XT4 up to 250 A, XT5 up to 630A, XT6 up to 1000A and XT7 up to 1600A.



- Compact dimensions
- Breaking capacity starting from 18kA
- Fixed, plugin and withdrawable versions from 16A
- Fourth protected pole
- Setting at 50deg C for thermomagnetic versions
- Switch disconnector 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

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	XT5N	Electronic LS/I	1SDA100353R1	XT5N 400 Ekip Dip LS/I In=320 3p F F
400A	XT5N	Thermomagnetic	1SDA100345R1	XT5N 400 TMA 400-4000 3p F F
400A	XT5N	Electronic LS/I	1SDA100354R1	XT5N 400 Ekip Dip LS/I In=400 3p F F
630A	XT5N	Electronic LS/I	1SDA100355R1	XT5N 630 Ekip Dip LS/I In=630 3p F F
800A	XT6N	Electronic LS/I	1SDA100719R1	XT6N 800 Ekip Dip LS/I In=800 3p F F
1000A	XT6N	Electronic LS/I	1SDA100720R1	XT6N 1000 Ekip Dip LS/I In=1000 3p F F

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	XT2S	Electronic LS/I	1SDA067804R1	XT2S 160 Ekip LS/I In=160A 3p F F
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	XT5S	Thermomagnetic	1SDA100414R1	XT5S 400 TMA 320-3200 3p F F
320A	XT5S	Electronic LS/I	1SDA100423R1	XT5S 400 Ekip Dip LS/I In=320 3p F F
400A	XT5S	Thermomagnetic	1SDA100415R1	XT5S 400 TMA 400-4000 3p F F
400A	XT5S	Electronic LS/I	1SDA100424R1	XT5S 400 Ekip Dip LS/I In=400 3p F F
630A	XT5S	Electronic LS/I	1SDA100425R1	XT5S 630 Ekip Dip LS/I In=630 3p F F
800A	XT6S	Electronic LS/I	1SDA100741R1	XT6S 800 Ekip Dip LS/I In=800 3p F F
1000A	XT6S	Electronic LS/I	1SDA100742R1	XT6S 1000 Ekip Dip LS/I In=1000 3p F F
1000A	XT7S	Electronic LS/I	1SDA100827R1	XT7S 1000 Ekip Dip LS/I In=1000A 3p F F
1250A	XT7S	Electronic LS/I	1SDA100828R1	XT7S 1250 Ekip Dip LS/I In=1250A 3p F F
1600A	XT7S	Electronic LS/I	1SDA100829R1	XT7S 1600 Ekip Dip LS/I In=1600A 3p F F

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	XT5D	1SDA100546R1	XT5D 400 3p F F
630A	XT5D	1SDA100547R1	XT5D 630 3p F F
630A	XT6D	1SDA100784R1	XT6D 800 3p F F
800A	XT6D	1SDA100784R1	XT6D 800 3p F F
1000A	XT7D	1SDA101906R1	XT7D 1000 3p F F
1250A	XT7D	1SDA101907R1	XT7D 1250 3p F F
1600A	XT7D	1SDA101908R1	XT7D 1600 3p F F

Ask your Sales Referent about…

- A demonstration of Ability Energy Manager
- Showing you the Demo luggage ABB Clever Family

Selected accessories

Designation	Code
Kit for mounting XT1 3P on DIN rail	1SDA066652R1
Kit for mounting XT3 3P on DIN rail	1SDA066420R1
Shunt Opening Release XT1…XT4, uncabled, 30VAC/DC	1SDA066314R1
Shunt Opening Release XT1…XT4, uncabled, 240VAC	1SDA066317R1
Shunt Opening Release XT5…XT6, uncabled, 30VAC/DC	1SDA104925R1
Shunt Opening Release XT5…XT6, uncabled, 240VAC	1SDA104926R1

To know more
Catalogues
Tmax XT www.bit.ly/3qeEhqb
Special versions 50degC www.bit.ly/3PJgni6
Contact us: info@qa.abb.com

50degC

Formula

MCCBs 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
www.bit.ly/3yHxzNo

Contact us: info@qa.abb.com

Emax 2

ACBs up to 6300A

Emax 2 Air Circuit Breakers have been designed to optimize the 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
- Connect to the cloud, run predictive maintenance and power quality monitoring with Ability Energy 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

Ask your Sales Referent about…

- A demonstration of Ability Energy Manager
- Showing you the Demo luggage ABB Clever Family
- Predictive maintenance

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 www.bit.ly/3EdWXvd
Contact us: info@qa.abb.com

OT, OS

Switch Disconnectors from 16 to 4000A

Fuse-switch Disconnector from 16 to 1250A

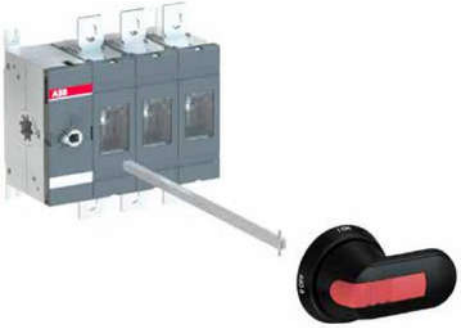
OT Switch-Disconnectors are tested for AC and DC operations. They are particularly suitable for various applications such as machines, power distribution, switchboards, motorized control centers or direct current installations.
The OS Fuse-switch Disconnector range is very useful for the protection of variable speed drives (VFD) 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, including shaft and handle
Including a black Test-OFF-ON plastic 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, including shaft and handle

Poles	Rated current	Fuse type	Code	Designation
3P	400A	DIN, size 0, 1, 2	1SCA022719R0250	OS400D03P
	630A	DIN, size3	1SCA022825R2830	OS630D03P
	800A	DIN, size 3	1SCA022825R4880	OS800D03P
	1250A	DIN, size 4	1SCA105475R1001	OS1250D03P
	1250A	DIN, size 4a	1SCA105238R1001	OS1250DA03P



To know more
Catalogue www.bit.ly/3dTHiUy
Contact us: info@qa.abb.com

AUTOMATED TRANSFER SWITCHES

TruONE® ATS **and** SRB p**anel**s

ATS made by... you!

What if the worlds' most advanced ATS would recognize the network parameters to setup on his own? What if the single and dual bypass requirements would be covered, without any extra space?
What if you could assemble these ATS on your own with SRB panels?

Guess what, this is available for you today!
Scan the QR code to discover more on the bypass features





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
	125 A	Top	1SCA151418R1001	OTM125F2C21D230C
4P	40 A	Bottom	1SCA150580R1001	OTM40F4CB21D400C
	63 A	Bottom	1SCA150586R1001	OTM63F4CB21D400C
	125 A	Bottom	1SCA150574R1001	OTM125F4CB21D400C

TruONE® Automatic transfer switches from 200 to 1600A – runner items, 4P, level 3

Sources side	Rated current	Code	Designation
Top	200A	1SCA153430R1001	OXB200E3S3QT
	250A	1SCA153458R1001	OXB250E3S3QT
	315A	1SCA153503R1001	OXB315E3S3QT
	400A	1SCA153518R1001	OXB400E3S3QT
	500A	1SCA151742R1001	OXB500E3S3QT
	630A	1SCA151058R1001	OXB630E3S3QT
	800A	1SCA150937R1001	OXB800E3S3QT
	1000A	1SCA153580R1001	OXB1000E3S3QT
	1250A	1SCA153613R1001	OXB1250E3S3QT
	1600A	1SCA153624R1001	OXB1600E3S3QT
Bottom	200A	1SCA153429R1001	OXB200E3S3QB
	250A	1SCA152435R1001	OXB250E3S3QB
	315A	1SCA152046R1001	OXB315E3S3QB
	400A	1SCA153517R1001	OXB400E3S3QB
	500A	1SCA151741R1001	OXB500E3S3QB
	630A	1SCA151057R1001	OXB630E3S3QB
	800A	1SCA149958R1001	OXB800E3S3QB
	1000A	1SCA153579R1001	OXB1000E3S3QB
	1250A	1SCA153612R1001	OXB1250E3S3QB
	1600A	1SCA152412R1001	OXB1600E3S3QB

Ask your Sales Referent about…

- A demonstration of the bypass feature
- A look at the demo luggage

To know more

Transfer switches - Manual, motorized, automatic and bypass switches
www.bit.ly/30Ond1G

Automatic transfer switches TruONE®
www.bit.ly/3moFwCe

Contact us: info@qa.abb.com

KSE, OKA, OT, OTL

Enclosed & Safety Switches, Isolators

ABB offers Enclosed & Safety Switches for any application. With series built in aluminum, sheet steel as well as stainless steel, the offer covers commercial, industrial, fire rated and ATEX requirements with a best-in-class quality.

- One of the most complete offering worldwide
- Safe position indication of the lever
- Padlockable levers
- F200-F300-F400 fire rated offers available
- Made in Europe



Runner items – 3P

Rating AC22 @415V	Rating AC23 @415V	kW @415V AC23	Code	Designation	Type	Lever type
16	16	7.5	1SCA142683R1001	OKA16S3G	OKA	rotating front access
25	16	7.5	2CMA142412R1000	KSE325TPN ✪	KSE	up-down front access
25	20	11	1SCA142685R1001	OKA25S3G	OKA	rotating front access
40	23	11	1SCA142687R1001	OKA40S3G	OKA	rotating front access
40	25	11	2CMA142415R1000	KSE340TPN ✪	KSE	up-down front access
63	45	22	2CMA144580R1000	KSE363TPN	KSE	rotating front access
63	63	22	1SCA142689R1001	OKA63S3G	OKA	rotating front access
80	75	37	2CMA144583R1000	KSE380TPN	KSE	rotating front access
100	80	45	2CMA144585R1000	KSE3100TPN	KSE	rotating front access
125	90	45	2CMA144588R1000	KSE3125TPN	KSE	rotating front access
125	90	45	1SCA022562R9670	OTL125B3U	OTL	rotating front access
125	125	55	1SCA148274R1001	OT125GLUU3BZ	OT	rotating front access
160	160	88	1SCA148267R1001	OT160EVLUU3BZ	OT	rotating front access
200	200	110	1SCA022602R0630	OT200KLUU3BZ	OT	rotating front access
250	250	110	1SCA022602R0710	OT250KLUU3BZ	OT	rotating front access
315	315	180	1SCA022572R6010	OT315KLUU3BZ	OT	rotating front access
400	400	230	1SCA022602R0800	OT400DLUU3BZ	OT	rotating front access
570	570	315	1SCA022750R1510	OT630KLUU3BZ	OT	rotating front access
720	720	400	1SCA022750R1600	OT800KLUU3BZ	OT	rotating front access
1000	1000	560	1SCA022750R1780	OT1000KLUU3BZ	OT	rotating front access
1250	1250	410	1SCA022750R1860	OT1250KLUU3BZ	OT	rotating front access

KSE, OKA: Aluminum

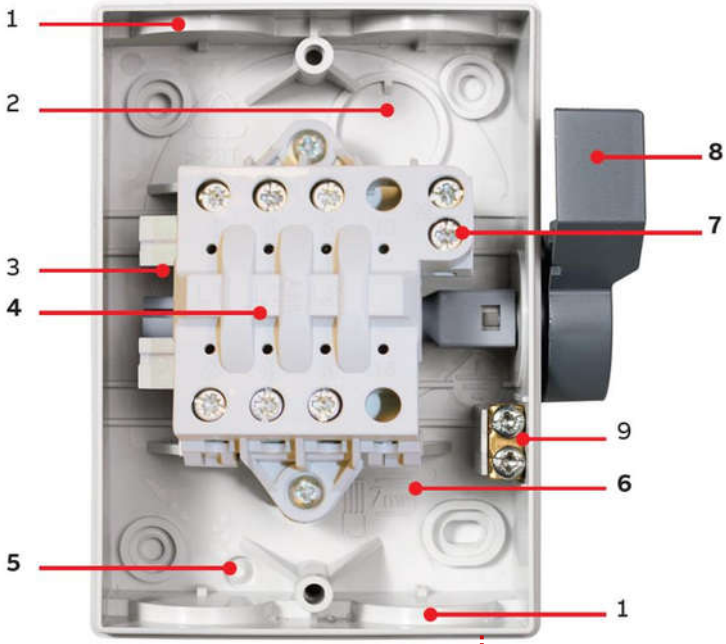
OT, OTL: Sheet steel

To know more

General catalogue: www.bit.ly/3J1XTqh

✪ KSE325, KSE340 enclosed switches





- Up to 25A AC23, 40A AC22 @415V
- Full-safe interlock with visual check
- High strength coated aluminum alloy body
- Water jet protected IP65, in/outdoors use
- UV protection certified UL746C
- Circuit breaker type lever, compact size
- Lever & switch aligned for more safety
- Better access & simpler connections
- Neutral and PE terminals included
- Free slot for auxiliary contact NO/NC
- Includes cable glands meeting Qatar needs
- 30+ years ABB experience

Discover more about each point by scanning this QR code (page 5)

Ask your Sales Referent about…

- A sample of KSE enclosed switches

OKA, OKL

Fire rated enclosed Switches

NEW



Fire rated enclosed switch-disconnectors maintain the power supply to fans or other smoke extraction equipment in case of fire. Typical environments are tunnels, high-rise buildings, parking spaces or commercial buildings. The standards define 3 classes based on their test temperature.

- F200: tested at 200°C during 120 min
- F300: tested at 300°C during 120 min, twice the duration of the standard for more performance
- F400: tested at 300°C during 120 min
- 2, 3, 6 poles solutions available
- With ABB, the F300 also covers F200 requirements

Runner items – 3P

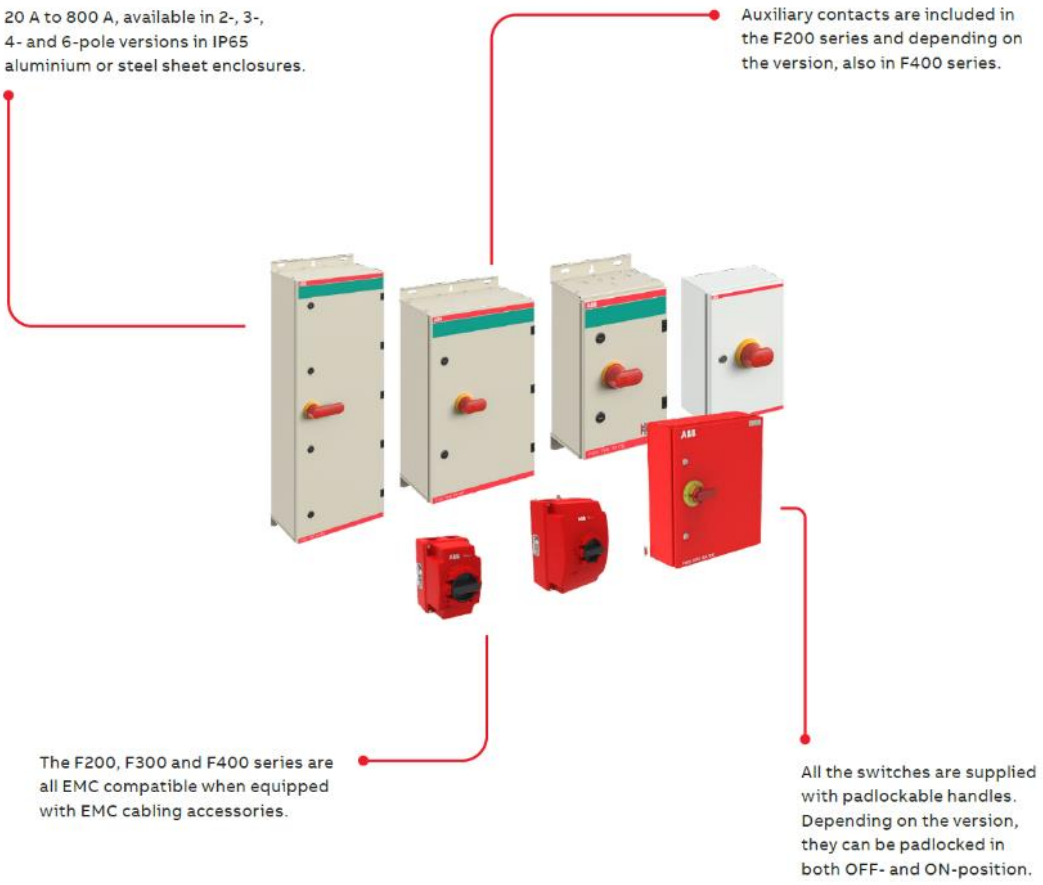
Rating AC22 @415V	Rating AC23 @415V	kW @415V AC23	F200	F300	F400	Code	Designation	Material
20	20	9	■			1SCA150645R1001	OKA20S3RF2	Alu
40	23	11	■			1SCA150647R1001	OKA40S3RF2	Alu
63	63	30	■			1SCA150649R1001	OKA63S3RF2	Alu
63	63	30	■			1SCA152253R1001	OKL63N3YF2	Steel
80	75	37	■			1SCA150651R1001	OKA80S3RF2	Alu
100	80	37	■			1SCA152255R1001	OKL100N3YF2	Steel
125	90	45	■			1SCA152257R1001	OKL125N3YF2UU1N	Steel
160	160	88	■			1SCA152261R1001	OKL160N3YF2UU1N	Steel
200	200	110	■			1SCA152265R1001	OKL200N3YF2UU1N	Steel
125	125	55	■	■		1SCA152258R1001	OKL125N3YF3UU0N	Steel
160	160	88	■	■		1SCA152262R1001	OKL160N3YF3UU0N	Steel
200	200	110	■	■		1SCA152266R1001	OKL200N3YF3UU0N	Steel
250	250	110	■	■		1SCA152269R1001	OKL250N3YF3UU0N	Steel
315	315	160	■	■		1SCA152271R1001	OKL315N3YF3UU0N	Steel
400	400	220	■	■		1SCA152273R1001	OKL400N3YF3UU0N	Steel
570	570	315	■	■		1SCA152275R1001	OKL570N3YF3UU0N	Steel
720	720	400	■	■		1SCA152277R1001	OKL720N3YF3UU0N	Steel
20	20	9.5	■	■	■	1SCA162328R1001	OKA20S3B0F400	Alu
25	25	11	■	■	■	1SCA162336R1001	OKA25S3B0F400	Alu
32	32	15	■	■	■	1SCA162344R1001	OKA32S3B0F400	Alu
40	40	18.5	■	■	■	1SCA162352R1001	OKA40S3B0F400	Alu
60	60	30	■	■	■	1SCA162360R1001	OKA63S3B0F400	Alu
60	60	30	■	■	■	1SCA162395R1001	OKL63P3Y0F400	Steel
80	80	40	■	■	■	1SCA162405R1001	OKL80P3Y0F400	Steel

100	100	55	■	■	■	1SCA162367R1001	OKL100P3Y0F400	Steel
160	160	90	■	■	■	1SCA162373R1001	OKL160P3Y0F400	Steel
200	200	110	■	■	■	1SCA162377R1001	OKL200P3Y0F400	Steel
250	250	132	■	■	■	1SCA162381R1001	OKL250P3Y0F400	Steel
315	315	175	■	■	■	1SCA162385R1001	OKL315P3Y0F400	Steel
400	400	200	■	■	■	1SCA162388R1001	OKL400P3Y0F400	Steel
630	630	315	■	■	■	1SCA162391R1001	OKL630P3Y0F400	Steel
800	800	500	■	■	■	1SCA162402R1001	OKL800P3Y0F400	Steel

Runner items – 6P

Rating AC22 @415V	Rating AC23 @415V	kW @415V AC23	F200	F300	F400	Code	Designation	Material
20	20	9.5	■	■	■	1SCA162334R1001	OKA20S6B1F400	Alu
25	25	11	■	■	■	1SCA162342R1001	OKA25S6B1F400	Alu
32	32	15	■	■	■	1SCA162350R1001	OKA32S6B1F400	Alu
40	40	18.5	■	■	■	1SCA162358R1001	OKA40S6B1F400	Alu
60	60	30	■	■	■	1SCA162401R1001	OKL63P6Y1F400	Steel
80	80	40	■	■	■	1SCA162412R1001	OKL80P6Y1F400	Steel
100	100	55	■	■	■	1SCA162372R1001	OKL100P6Y1F400	Steel

Please select the version with auxiliary contacts and neutral in catalogue where required. The versions without accessories cannot be completed afterwards.



To know more
Fire rated switches catalogue:
www.bit.ly/3Kdssf

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 by 90%
- 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 AC3	Current AC1	Code	Designation	Embedded auxiliary contacts
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 1N0+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. For coordination type 1 and type 2, see SOC tool.
Thermal relays cover applications up to 200A, while electronic versions cover up to 1250A.

Compatible with	Current setting range	Code	Designation
AF09…38	From 0.1A	See catalogue	TF42-…
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
www.bit.ly/3pdluMB

Contact us: info@qa.abb.com

Ask your Sales Referent about…

- AF contactor with direct control from PLC
- AF contactor with faster operations
- AF contactor for Premium efficiency motors IE3 or IE4
- Novolink™ smart modules for AF contactors

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 the 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 range provides specific functions you may expect from a VFD, to optimize your application
- Easy selection for typical projects and advanced software for optimizations
- 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

Ask your Sales Referent about…

- The PSTX functions that are relevant for your application
- The protocols of communication
- The integrated bypass

To know more
Catalogue: www.bit.ly/3phKYsw
Contact us: info@qa.abb.com

MS116, MS132, MS165

MMS / MPCB up to 80A

Manual MotorStarters / Motor Protection Circuit Breakers 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.

- Breaking capacity up to 100kA
- Rotary handle
- Temperature compensation
- For coordination type 1 and 2, see SOC tool
- 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



		MS116		MS132	
Current setting	Power kW @400V AC3	Code	Designation	Code	Designation
0.1 … 0.16 A	0.03	1SAM250000R1001	MS116-0.16	1SAM350000R1001	MS132-0.16
0.16 … 0.25 A	0.06	1SAM250000R1002	MS116-0.25	1SAM350000R1002	MS132-0.25
0.25 … 0.4 A	0.09	1SAM250000R1003	MS116-0.4	1SAM350000R1003	MS132-0.4
0.4 … 0.63 A	0.18	1SAM250000R1004	MS116-0.63	1SAM350000R1004	MS132-0.63
0.63 … 1 A	0.25	1SAM250000R1005	MS116-1.0	1SAM350000R1005	MS132-1.0
1 … 1.6 A	0.55	1SAM250000R1006	MS116-1.6	1SAM350000R1006	MS132-1.6
1.6 … 2.5 A	0.75	1SAM250000R1007	MS116-2.5	1SAM350000R1007	MS132-2.5
2.5 ... 4 A	1.5	1SAM250000R1008	MS116-4.0	1SAM350000R1008	MS132-4.0
4 ... 6.3 A	2.2	1SAM250000R1009	MS116-6.3	1SAM350000R1009	MS132-6.3
6.3 ... 10 A	4	1SAM250000R1010	MS116-10	1SAM350000R1010	MS132-10
10 ... 16 A	7.5	1SAM250000R1011	MS116-16	1SAM350000R1011	MS132-16
16 ... 20 A	7.5	1SAM250000R1013	MS116-20	1SAM350000R1013	MS132-20
20 ... 25 A	11	1SAM250000R1014	MS116-25	1SAM350000R1014	MS132-25
25 ... 32 A	15	1SAM250000R1015	MS116-32	1SAM350000R1015	MS132-32

Range	Current setting	Power kW @400V AC3	Code	Designation
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
www.bit.ly/3pdluMB

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

External handle available, see the catalogue page 2/45

CT-C, CM

Electronic relays: timers, phase monitoring, temperature

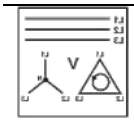
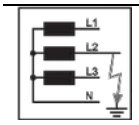
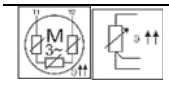
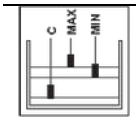
ABB offers a wide range of electronic relays for a variety of applications, with the common benefit of ease of implementation and proven service life

- 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	Multifunctional 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	ON-delay 2c/o, 24-48VDC/24-240VAC
	1SVR508110R0100	CT-AHC.22	OFF-delay 2c/o, 24-48VDC/24-240VAC
	1SVR508211R0100	CT-SDC.22	Star-delta 2n/o, 24-48VDC/24-240VAC
 Phase monitoring	1SVR730794R3300	CM-PVS.41S	Three-phase monitoring relay 2c/o, 0,0.1-30s, L1-L2-L3=3x300-500VAC Phase sequence, phase failure, over- and undervoltage, phase unbalance
	1SVR550871R9500	CM-PVE	Single or three phase monitoring relay 1 n/o (closed circuit principle) L1-L2-L3=320-460VAC Over- and undervoltage, phase failure
 Insulation	1SVR730660R0100	CM-IWS.1S	Insulation monitoring relay 1c/o, 1-100kOhm, 24-240VAC/DC
 Temperature relays	1SVR730700R0100	CM-MSS.12S	Thermistor motor protec. relay 1c/o, 24VAC/DC
	1SVR730740R0300	CM-TCS.13S	Temperature monitoring relay Temp.-range 0...+200°C, 24-240VAC/DC, for PT100
	1SVR750740R0120	CM-TCN.012S	Temperature monitoring relay Temp rage -200 °C ... +850 °C Sensors PT100, PTC, PT1000, NTC with display and Modbus communication.
 Liquid level	1SVR730850R0100	CM-ENS.11S	Liquid level monitoring relay 1c/o, sens. 5-100kΩ Min and max liquid level control, dry running protection, overflow protection,

To know more
Catalogue: www.bit.ly/3Ft2TBO
CM-TCN brochure : www.bit.ly/3PPBPCe
Contact us: info@qa.abb.com

CM-TCN

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 Weekly Digital timers – runner items
Controlling your loads based on your time schedule.



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

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 www.bit.ly/3yLOnmd

Contact us: 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 and metal ranges 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 www.bit.ly/2YS3j24
Contact us: info@qa.abb.com



Discover ABB E210 range of Din rail 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

			IP44		IP67	
Rating	Terminals	Color	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

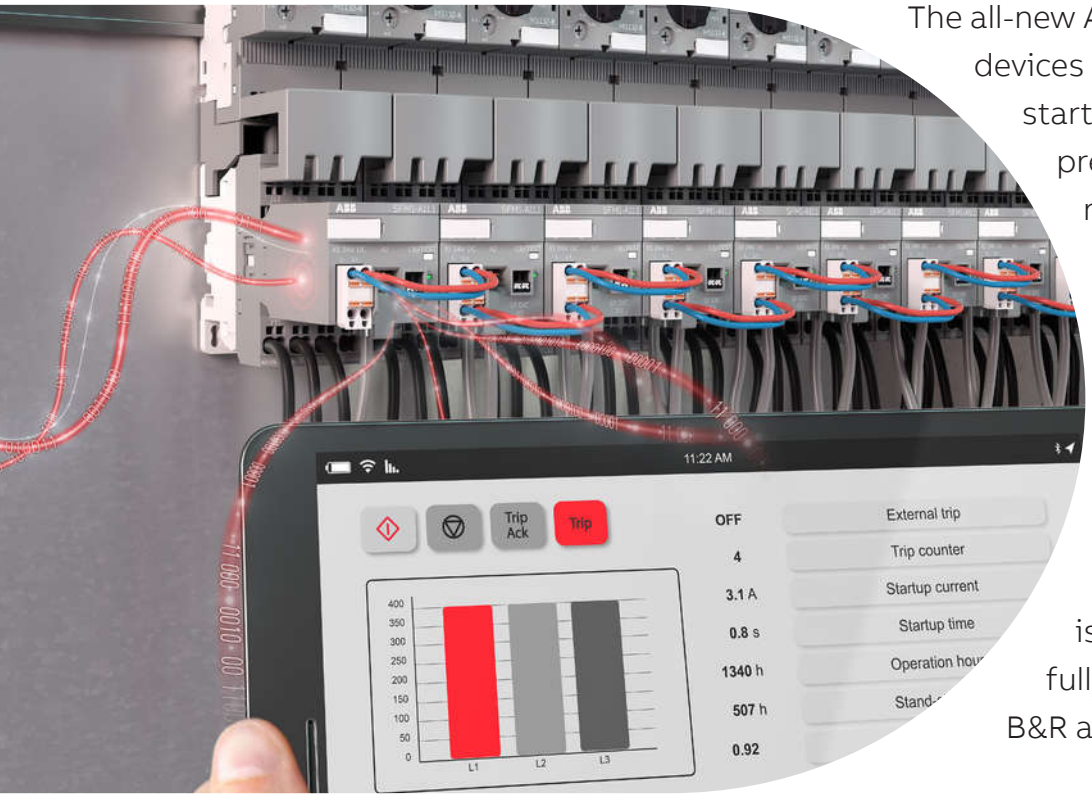
Socket / Inlet for panel mounting

			IP44		IP67	
Rating	Terminals	Color	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

To know more
Catalogue: www.bit.ly/32prtox
Contact us: info@qa.abb.com

Advanced digitalization, simplified

ABB Novolink™ smart modules for AF contactors



The all-new ABB Novolink™ smart devices help digitalize your motor starting solutions. Enabling predictive maintenance, they reduce downtime, improve efficiencies and increase cost savings.

Each device is easy to design into existing wiring plans and connect to regular AF contactors. Installation is fast, and each device is fully integrated into the B&R automation system.

Ease in design & commissioning

Novolink integrates a number of components, including overload relays and auxiliary contacts to reduce engineering.

- Easy installation, only adjust the control wiring
- Effortless integration with B&R system - no complex software engineering needed
- Leverage knowledge of existing AF contactors

Innovation through digitalization

Through enhanced analytics and data-driven decision making, Novolink opens up new service models.

- Offer your customers new pay-per-use services such as predictive maintenance and reactive spare part replacement
- Enhanced analytics for improved performance: Optimize the performance of your machine in real time with data-driven decision making

Optimized operations & maintenance

Reducing costs and maximizing energy efficiency is made simple with Novolink.

- Increase uptime: use Novolink's remote monitoring capabilities to immediately isolate problem areas and suggest solutions before a disruption is caused.
- Remote monitoring capabilities: reduce costs and increase overall uptime
- Service on demand: Avoid unnecessary scheduled servicing by moving from fixed service cycles

Movion®

Modular & versatile

Website



Escape route lighting - Recessed

- Round shaped design fitting any ceiling
- Specially designed lens for optimal light distribution - long and wide beam
- Quick installation and parallel wiring option with the smart loop-in, loop-out system

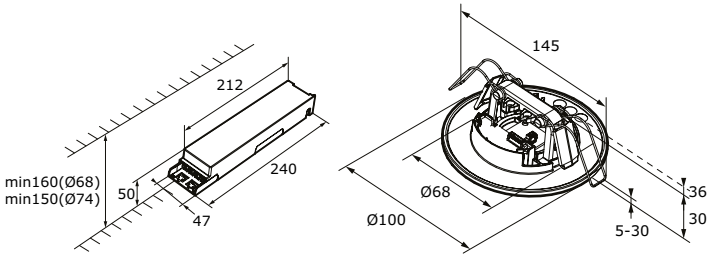
Luminaire

Order code	Description	Input voltage	Lamp type	Lamp output (lm)	Light optics	Power consumption (VA/W)	Operation / duration (hrs)	Environment temp. (°C)	Weight (kg)
511013121/50	EL800R-M3/ST ER	230-240 AC 50/60Hz	1 x LED 1W	150	Escape route	3.05 / 2.91	3	5-35	0.31
511013221/50	EL800R-M3/DALI ER	230-240 AC 50/60Hz				3.05 / 2.91	3	5-35	0.31
511013321/50	EL800R-M3/COM ER	230-240 AC 50/60Hz				3.05 / 2.91	3	5-35	0.31
511012821/50	EL800R-230 ER	220-240 AC/DC 0-60Hz				3.05 / 2.91	230V	0-40	0.21
511012721/50	EL800R-230/FLX ER	220-240 AC/DC 0-60Hz				3.05 / 2.91	230V	0-40	0.21
511012621/50	EL800R-230/LTC ER	220-240 AC 50/60Hz				3.05 / 2.91	230V	0-40	0.21
511013122/50	EL800R-M3/ST OA	230-240 AC 50/60Hz			Open area	3.05 / 2.91	3	5-35	0.31
511013222/50	EL800R-M3/DALI OA	230-240 AC 50/60Hz				3.05 / 2.91	3	5-35	0.31
511013322/50	EL800R-M3/COM OA	230-240 AC 50/60Hz				3.05 / 2.91	3	5-35	0.31
511012822/50	EL800R-230 OA	220-240 AC/DC 0-60Hz				3.05 / 2.91	230V	0-40	0.21
511012722/50	EL800R-230/FLX OA	220-240 AC/DC 0-60Hz				3.05 / 2.91	230V	0-40	0.21
511012622/50	EL800R-230/LTC OA	220-240 AC 50/60Hz				3.05 / 2.91	230V	0-40	0.21

Accessories

Order code	Description	Product type
11160111/50	RENO 2200-3300	Renovation kit recess mounted, white

IP Rating	Product type
IP20	flush mount from above
IP42	flush mount from below



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Website



Escape route lighting - Surface mount

- Square shaped design fitting any ceiling
- Specially designed lens for optimal light distribution - long and wide beam
- Quick installation and parallel wiring option with the smart loop-in, loop-out system
- Light track mountable with 3C adapter included

Luminaire

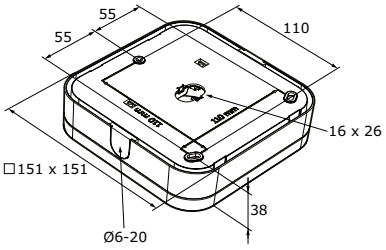
Order code	Description	Input voltage	Lamp type	Lamp output (lm)	Light optics	Power consumption (VA/W)	Operation / duration (hrs)	Environment temp. (°C)	Weight (kg)
511013111/50	EL800S-M3/ST ER	230-240 AC 50/60Hz	1 x LED 1W	150	Escape route	3.05 / 2.91	3	5-35	0.39
511013211/50	EL800S-M3/DALI ER	230-240 AC 50/60Hz				3.05 / 2.91	3	5-35	0.39
511013311/50	EL800S-M3/COM ER	230-240 AC 50/60Hz				3.05 / 2.91	3	5-35	0.39
511012811/50	EL800S-230 ER	220-240 AC/DC 0-60Hz				3.05 / 2.91	230V	0-40	0.29
511012711/50	EL800S-230/FLX ER	220-240 AC/DC 0-60Hz				3.05 / 2.91	230V	0-40	0.29
511012611/50	EL800S-230/LTC ER	220-240 AC 50/60Hz				3.05 / 2.91	230V	0-40	0.29
511013112/50	EL800S-M3/ST OA	230-240 AC 50/60Hz			Open area	3.05 / 2.91	3	5-35	0.39
511013212/50	EL800S-M3/DALI OA	230-240 AC 50/60Hz				3.05 / 2.91	3	5-35	0.39
511013312/50	EL800S-M3/COM OA	230-240 AC 50/60Hz				3.05 / 2.91	3	5-35	0.39
511012812/50	EL800S-230 OA	220-240 AC/DC 0-60Hz				3.05 / 2.91	230V	0-40	0.29
511012712/50	EL800S-230/FLX OA	220-240 AC/DC 0-60Hz				3.05 / 2.91	230V	0-40	0.29
511012612/50	EL800S-230/LTC OA	220-240 AC 50/60Hz				3.05 / 2.91	230V	0-40	0.29



Accessories

Order code	Description	Product type
5110007/50	PK EL800	Pendant kit surface mounted escape

Modular pendant tubes and accessories to be used in combination with the pendant kit see page XX.



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Modular & versatile

Website



Escape route signalisation - 22m

- One version available for wall and ceiling mount
- Strong light distribution with 500 cd/m²
- Light track mountable with 3C adapter included
- Recess kit for flush mounting available

Luminaire

Order code	Description	Input voltage	Lamp type	Power consumption (VA/W)	Operation / duration (hrs)	Environment temp. (°C)	Weight (kg)
411013111/50	XT800S-M3/ST 22M	230-240 AC 50/60Hz	1 x LED 2W	3.91 / 3.81	3	5-35	0.53
411013211/50	XT800S-M3/DALI 22M	230-240 AC 50/60Hz			3	5-35	0.53
411013311/50	XT800S-M3/COM 22M	230-240 AC 50/60Hz			3	5-35	0.53
411012811/50	XT800S-230 22M	220-240 AC/DC 0-60Hz			230V	0-40	0.48
411012711/50	XT800S-230/FLX 22M	220-240 AC/DC 0-60Hz			230V	0-40	0.48
411012611/50	XT800S-230/LTC 22M	220-240 AC 50/60Hz			230V	0-40	0.48

Legends

Part No.	Legends
1522251/50	
1522252/50	
1522253/50	
1522258/50	
1522250/50	
1522210/50	
1522211/50	

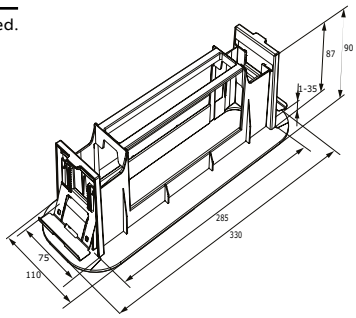
IP Rating	Product type
IP20*	flush mount from above
IP42*	flush mount from below

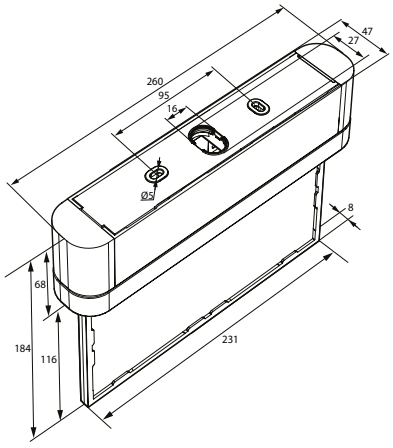
*Only applicable when the recess kit is used.

Accessories

Order code	Description	Product type
4110001/50	RK XT800	Recess kit for exit signs
4110003/50	PK XT800*	Pendant kit surface mounted exit
4100007/50	RENO XT800**	Renovation kit for exit signs

*Modular pendant tubes and accessories to be used in combination with the pendant kit see page XX.
** Use the RENO XT800 in combination with RK XT800.





Movion®

Modular & versatile

Website



Hybrid - 22m

- All-in-one escape route lighting and signalisation luminaire for wall and ceiling mount
- Available lenses for escape route lighting and 5 lux illumination of safety equipment
- Light track mountable with 3C adapter included
- Recess kit for flush mounting available

Luminaire

Order code	Description	Input voltage	Lamp type	Lamp output (lm)	Power consumption (VA/W)	Operation / duration (hrs)	Environment temp. (°C)	Weight (kg)
411113111/50	XTH800S-M3/ST 22M	230-240 AC 50/60Hz	1 x LED 2W + 1 x LED 1W	80	4.84 / 4.7	3	5-35	0.6
411113211/50	XTH800S-M3/DALI 22M	230-240 AC 50/60Hz				3	5-35	0.6
411113311/50	XTH800S-M3/COM 22M	230-240 AC 50/60Hz				3	5-35	0.6
411112811/50	XTH800S-230 22M	220-240 AC/DC 0-60Hz				230V	0-40	0.5
411112711/50	XTH800S-230/FLX 22M	220-240 AC/DC 0-60Hz				230V	0-40	0.5
411112611/50	XTH800S-230/LTC 22M	220-240 AC 50/60Hz				230V	0-40	0.5

Legends

Part No.	Legends
1522251/50	
1522252/50	
1522253/50	
1522258/50	
1522250/50	
1522210/50	
1522211/50	

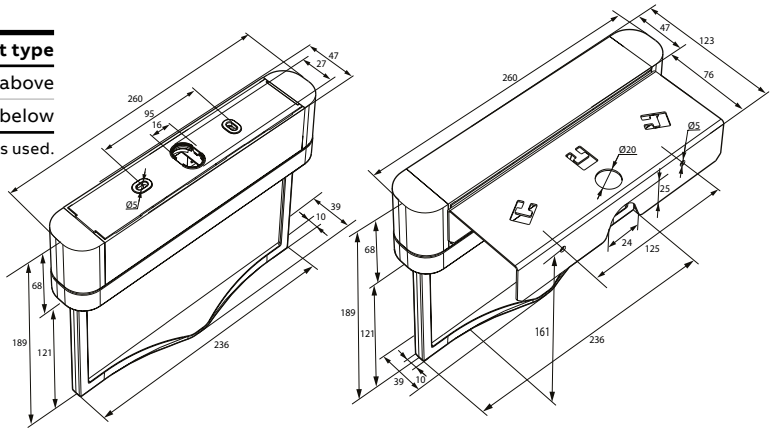
Accessories

Order code	Description	Product type
4110001/50	RK XT800	Recess kit for exit signs
4110003/50	PK XT800*	Pendant kit surface mounted exit
4110004/50	WB XTH 800	Wall bracket for Hybrid exit signs
4100007/50	RENO XT800**	Renovation kit for exit signs

*Modular pendant tubes and accessories to be used in combination with the pendant kit see page XX.
** Use the RENO XT800 in combination with RK XT800.

IP Rating	Product type
IP20*	flush mount from above
IP42*	flush mount from below

*Only applicable when the recess kit is used.



Optima, Cordona, Aqualux

Light fittings for Emergency Lighting and general applications

Here is a list of selected items from Emergi-Lite light fittings, bringing you ABB expertise in Emergency Lighting



Optima



Cordona



Aqualux

Type	Type*	Code GID	Code	Designation
Optima IP65, IK10 230VAC/DC High950 lumen 20m reading dist.	☐	7TCA304020R0004	442351S	EL350S-230/1000L Light
	■	7TCA304050R0035	442353S	XTE350S-230 Sign
	Pictograms for emergency escape signalization are available Please check with your sales representative.			
Cordona Staircase / technical floor IP65, IK10 110-230 AC/DC	☐	7TCA091130R0543	CPW1LA1	1830 lumen, opaque
		7TCA091130R0544	CPW1LA11	2355 lumen, clear optics
Aqualux IP67 protection	☐ or ■	7TCA091130R0245	OW1L261HF	Wall mounted, line power
		7TCA091160R0200	OW3L261	Wall mounted, line/battery 3h
		7TCA091130R0245	OW/DSC	Ceiling: add-on Bi-directional cover
		7TCA091360R0738	OW/BWM	Wall mount bracket for bi-directional

Pictograms for emergency escape signalization

Wall mounting

Part No.	Pictogram
XEN2W	
XEN3W	
XEN6W	
XEN5W	
XLF802W	
XLF803W	
XB01HS	

Ceiling

Single sided	
Part No.	Pictogram
RSEN2W	
RSEN3W	
RSEN6W	
RSEN5W	
Arabic legend format	
On request	

Double sided	
Part No.	Pictogram
RSEN3W/RSEN6W	
RSEN2W/RSEN2W	

*☐ exit light ■ exit sign

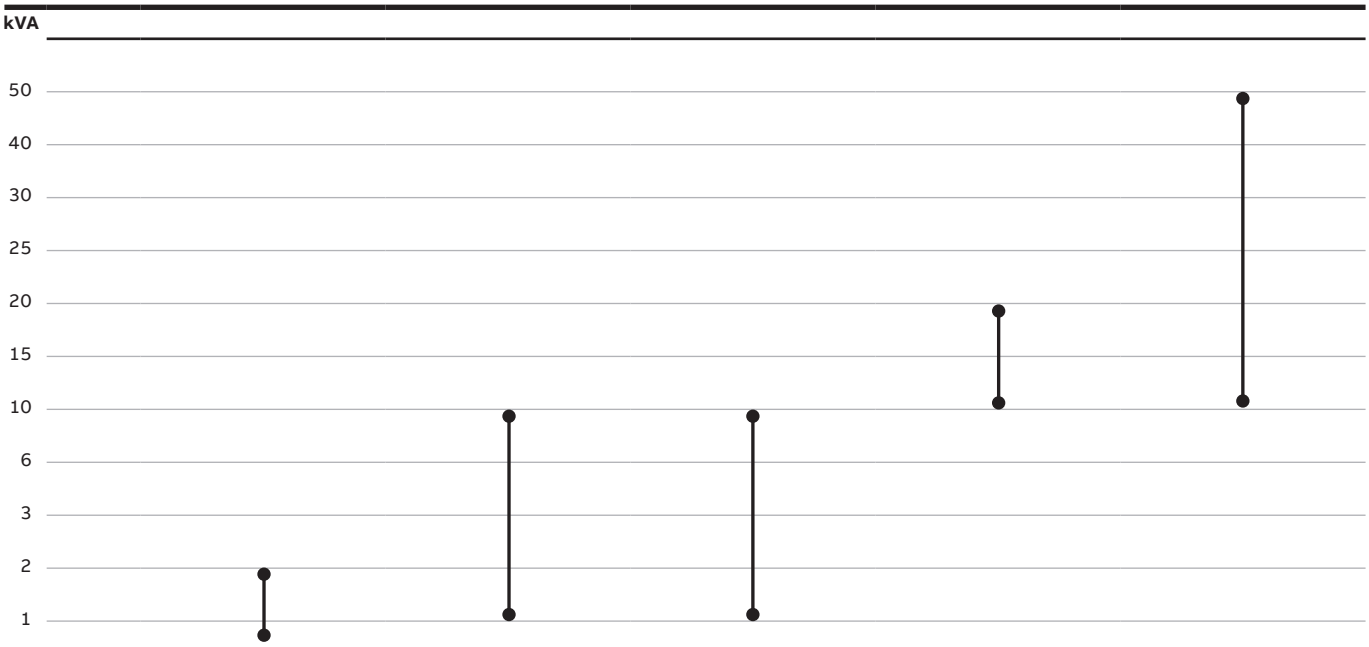
To know more
Catalogue: www.bit.ly/3oKPzlP
Contact us: info@qa.abb.com

General catalogue

Low power catalogue

Low Power UPS overview

UPS rated power and overview



Product	PowerValue 11LI Up/Pro 600-2000 VA	PowerValue 11T G2 1-10 kVA	PowerValue 11 RT G2 1-10 kVA	PowerValue 11 / 31 T 10-20 kVA	PowerScale 33 10-50 kVA
					
Description	Cost-effective power protection and automatic voltage correction for lower-power operations and entry-level network applications such as server rooms in offices, workstations and point-of-sale.	Cost-effective power protection for entry-level server rooms, lab equipment, ATM and other sensitive electronic devices	Professional single-phase UPS for the most demanding applications, it maintains the power for critical servers, PoS, workstations, clusters and eliminates the incoming power disturbances. The thinnest and fully rack-tower convertible module available in the market (2U only)	The ideal power protection for large IT rooms, networks and critical applications with its high power capability and redundancy	The high-performance three-phase UPS for low-power applications to minimize your total cost of ownership (TCO) providing state-of-art and flexible power uptime

PowerValue 11T G2 1-10 kVA

A cost-effective solution for maximum power protection



1 kVA B | 2/3 kVA B | 1 kVA S | 2/3 kVA S | 6-10 kVA S | 6-10 kVA B/B2

ABB's PowerValue 11T G2 is a single-phase in/out, double conversion online uninterruptible power supply (UPS) that guarantees up to 10 kW per single UPS of clean, reliable power for your critical single-phase applications. As well as maintaining power to your server room, advertising display, turnstiles, lab equipment, transportation signaling systems, ATM or vending machine, the PowerValue 11T G2 also conditions incoming power to eliminate spikes, swells, sags, noise and harmonics.

Featuring voltage and frequency independent (VFI) topology, the tower-only PowerValue 11T G2 saves costs by minimizing energy losses with its double conversion efficiency of up to 95 percent (up to 98 percent in ECO mode). Two or three units can be connected in parallel to boost power delivery to a maximum of 30 kW or to provide redundancy.

Simple to install or maintain, inexpensive to run and with the most compact online UPS footprint available on the market, the PowerValue 11T G2 provides stable, regulated, transient-free, pure sine wave AC power with extremely tight output voltage regulation. All units can be fitted with up to four external battery modules (EBMs) to extend runtime to well over two hours. Each EBM is dedicated to its corresponding UPS and setup is easily accomplished via the LCD menu.

High reliability
- Double conversion topology protects the load from all input disturbances
- Parallelable up to three units (6-10 kVA only) to provide system redundancy
- User-replaceable batteries
- Wide input voltage tolerance

Low cost of ownership
- Scalable runtime
- High operating efficiency
- Low installation and upgrading costs
- Compact design
- Output power factor of 1.0 (6-10 kVA only)

Flexible design
- Multiple connectivity options
- Each UPS can be connected with up to four parallel battery modules for extended runtime
- Adjustable DC voltage and battery charger current
- Extended backup time models available
- Best power density available in the market segment

Efficient service concept
- Integrated manually operated maintenance bypass switch (6-10 kVA only)
- Easy setup and maintenance (plug and play)
- User-friendly display
- Remote monitoring options

PowerValue 11 RT G2 1-10 kVA IEC

The single-phase UPS for critical applications



ABB's PowerValue 11 RT G2 is a double-conversion online UPS that guarantees up to 10 kW of clean, reliable power for your critical single-phase applications. As well as maintaining power to your servers, point-of-sale terminals, workstation clusters, routers, switches, hubs and sensitive electronic equipment, the PowerValue 11 RT G2 also conditions incoming power to eliminate spikes, swells, sags, noise and harmonics.

The PowerValue 11 RT G2 can be used as a standalone UPS device or installed into a standard 19" rack configuration, with connectivity options available for each.

Three units of the 6 or 10 kW models can be configured in parallel to provide redundancy or to increase the system's total capacity up to 30 kW. All units can be fitted with up to nine battery modules to extend runtime.

High reliability
- Reliable double conversion topology protects load from all input disturbances
- Batteries can be added or replaced easily
- Reduced recovery time from discharge
- Redundant parallel operation available (6 and 10 kW units)

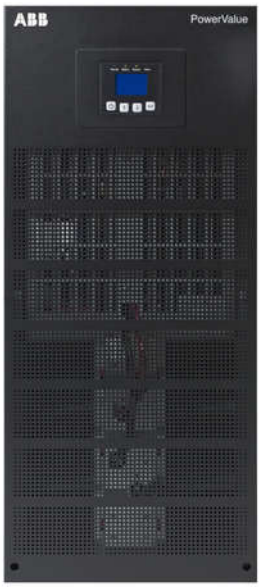
Low cost of ownership
- Unity power factor (kW = kVA)
- Scalable runtime
- High operating efficiency, regardless of loading
- Reduced installation and upgrading costs
- Compact design

Flexible design
- Configurable in tower or rack-mount format
- Rotatable display
- UPS can be connected with up to nine external battery modules (EBMs) for extended runtime
- Long backup models available
- Full set of accessories and connectivity options

Efficient service concept
- Manually operated maintenance bypass switch (optional)
- Easy set-up and maintenance (plug-and-play)
- User-friendly display
- Hot-swap user-replaceable internal batteries

PowerValue 11 / 31 T

The single-phase UPS for IT rooms, networks and other critical applications



The PowerValue 11/31 T UPS delivers reliable power, low running costs, long battery life, easy maintenance and high levels of flexibility. Featuring double-conversion, voltage and frequency independent (VFI) topology, the PowerValue 11/31 T is available in both 10 and 20 kVA versions, with the option to configure up to four units in parallel to boost power capability or provide redundancy.

Three-phase or single-phase inputs can also be accommodated, as well as single- or dual-supply inputs – allowing the customer to manage two independent power sources. Simple to install and with a small footprint, the PowerValue 11/31 T provides stable, regulated, transientfree, pure sine wave AC power with extremely tight output voltage regulation.

High reliability
- Online double conversion topology
- Parallelable up to four units to provide system redundancy
- Programmed and automated battery tests ensure optimized battery management

Low cost of ownership
- Simple power increase by paralleling up to four units
- High operating efficiency, regardless of loading
- Reduced installation costs
- Compact design

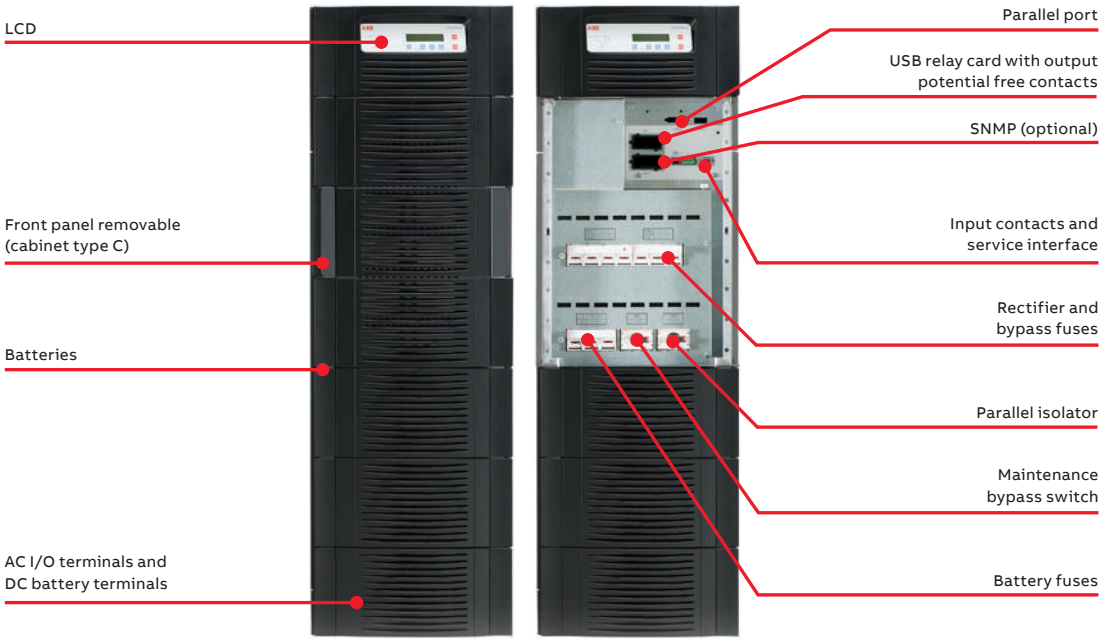
Flexible design
- Different autonomy variations with inbuilt batteries or additional battery cabinets
- Long backup models available
- Single- or three-phase input – adaptable to installation requirements (field configurable)
- Single- or dual-input power source compatible (field configurable)

Efficient service concept
- Integrated manual bypass switch
- Easy to install and maintain
- User-friendly display
- User-replaceable batteries
- Remote monitoring and connectivity options

NEW

PowerScale 33 10-50 kVA

The three-phase UPS for low power applications



PowerScale is an online, double-conversion, VFI (voltage frequency independent) UPS that provides enhanced power protection in a compact format. Its outstanding price / performance delivers the best value for money in its category with uncompromised system reliability and power availability. PowerScale is available in three cabinet sizes, enabling you to choose the ideal capacity and required autonomy for your critical load.

High reliability
- Online double conversion technology
- Parallelable systems for increased redundancy

Low cost of ownership
- Scalable power and autonomy time
- Small footprint / high power density
- High efficiency at partial and rated loads (up to 95.5%)
- Reduced installation costs
- Ripple-free and temperature controlled battery chargers extend battery life time performance
- Low input harmonic distortion (THDi <3%)

Flexible design
- Available in seven power ratings and three cabinet sizes
- Parallel capacity up to 20 units
- External battery cabinets for extended autonomy

Efficient service concept
- Manually operated maintenance bypass switch
- User-friendly LCD
- Ergonomic design for easy serviceability
- Remote monitoring and connectivity options

Millenium, Zenit BS, Inora

Wiring accessories

ABB offers complete ranges of wiring accessories, starting with Inora and its timeless design for the most common applications, the new Zenit BS for endless possibilities, Millenium with its amazing finishing and completed with a Metal Clad & Weatherproof covers 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:
www.bit.ly/3pfKe6X

With Zenit BS you can make any installation possible from family homes to hotels or office spaces. More than 100 functions are ready to cater every customer need.

Available in 4 colors, polycarbonate
Made in Spain

NEW



To know more:
www.bit.ly/3GnAlfV

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.

Available in 4 colors, polycarbonate



To know more:
www.bit.ly/3pghriB

Metal Clad, Weatherproof covers

Wiring accessories for back of the house

The Metal clad range of surface mounted wiring devices is designed to be robust and resistant thanks to the high-quality coated metal plate. It is ideal for use in service areas, factories, warehouses, hospitals, and as well as domestic application in lofts and garages.



To know more:
www.bit.ly/40MqlVc

The New IP55 weatherproof covers are compatible with one & two gang wiring accessories (Inora, Zenit BS, Millenium). Compliant to IEC60670, IEC60529. Combine the item of your choice with the right protection for risk areas!

- UV stabilized Polycarbonate
- Transparent, impact resistant cover
- Soft pad to fill voids on uneven surface
- Self-holding
- Suitable for padlocking





2TCZ755001R0010	WSC101	1G WEATHERPROOF COVER IP55
2TCZ755002R0010	WSC201	2G WEATHERPROOF COVER IP55

The New IP66 weatherproof covers are compatible with one & two gang wiring accessories (Inora, Zenit BS, Millenium). Compliant to IEC60670 and IEC60529. Combine the item of your choice with the right protection for risk areas!

- Complies to outdoor applications
- Enclosure made of high-quality PC material, glossy finish
- Resistance to UV radiation and anti-corrosion
- Self-holding
- Suitable for padlocking





2TCZ755003R0010	WSC102	1G WEATHERPROOF COVER IP66
2TCZ755004R0010	WSC202	2G WEATHERPROOF COVER IP66

To know more:
www.bit.ly/3JW1pUn

Recommended Inora items to fit in Weatherproof covers
You can insert any 1 gang / 2 gang item of Inora / Zenith BS / Millenium ranges

2TCZ172001R0040	BL224	1 Gang 13A Switched Socket
2TCZ172010R0040	BL227	2 Gang 13A Switched Socket

NEW

ABB Furse

Earthing & Lightning Protection

Furse was acquired by the ABB Group in 2012, and through the wider distributor network they offer, the Furse brand has now become established as a world leader in earthing and lightning protection, with our products specified and installed in many prestigious projects globally.

—
01 PVC Covered conductors / Bare conductors / Bare stranded conductors
—
02 B Bolt / Rod to tape clamp (Type A) / 'U' Bolt rod clamp (Type GUV) / Swing lid DC tape clip / Standing seam roof fixing with no-metallic DC tape clip
—
03 Earth bars

The combined expertise of Furse and the experience within the electrical sector ABB provide, allows us to share the knowledge we hold in key industry sectors with our clients. In turn this promotes properly informed decision making on the best earthing and lightning protection solution to suit your needs.

Why use Furse?

Expertise
Specialist advice from our fully qualified technical engineers – focusing on your earthing and lightning protection issues and concerns.

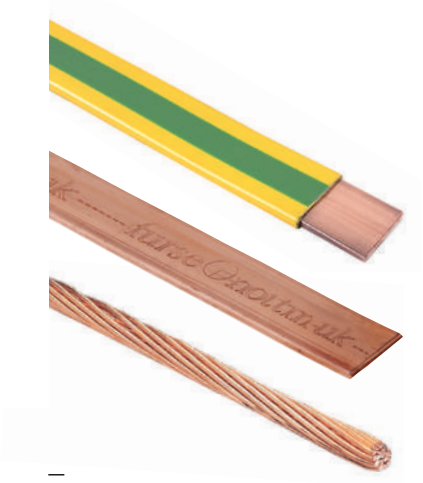
Experience
Providing the optimum design – one that doesn't use more material than is necessary, saving you money.

Products
Our knowledge of the latest products ensures a tailored design that can be installed using the most appropriate and up-to-date products.

Technical
With over 120 years accumulated knowledge of developing earthing and lightning protection solutions, we provide design systems to any recognised standard.

Customer service
Our sales and technical teams are ready to assist with all your earthing and lightning protection needs.

Knowledge
Our knowledge of the latest standards ensures designs and selected products comply with the latest IEC/BS EN/NFPA/UL standards.


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02


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03

Earthing & lightning protection

A real & significant threat
Lightning contains awesome amounts of electrical energy. Lightning discharges have been measured from several thousand to over 200,000 Amps (enough to light half a million 100 Watt bulbs) and even though of a very short duration, can cause tremendous damage and destruction.

The consequences of lightning can be devastating:

- Direct lightning strikes damage structures, and create fire, explosion and electric shock hazards.
- Indirect lightning (up to a kilometre away) creates transient overvoltages which degrade electronic systems and disrupt essential services.

Secondary effects of lightning
The effects of a direct strike are obvious and immediately apparent – buildings damaged, trees blown apart, personal injuries and even loss of life.

However, the secondary effects of lightning – the short duration, high voltage spikes called transient overvoltages – can, and do, cause equally catastrophic, if less visually obvious, damage to electronic systems within structures.

Technical catalogue

The need for a total solution

Lightning protection throughout the world is now governed by National and International standards which stress the need for a comprehensive solution. Simply put, a structural lightning protection system cannot and will not protect electronic systems from lightning currents and transient overvoltages, that's why we advocate a Total Solution to earthing and lightning protection. This approach to lightning protection is now fully endorsed by the IEC/BS EN 62305, as well as NFPA 780 standards.

Therefore the Furse approach delivers effective life safety, together with long lasting, reliable protection of a structure and the electronic systems within. We believe the Furse Total Solution is the best available solution for achieving effective, dependable, long term lightning protection and earthing.

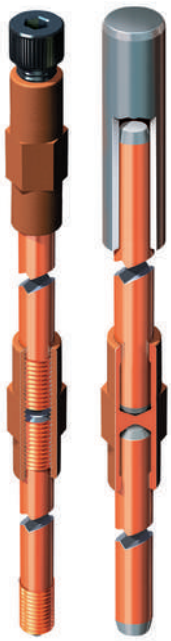
Protecting against the consequences of lightning is now of paramount importance in any building design, our Total Solution covers a wide range of sectors, for which we have tailored products and services.



09



10



11

09 Lightweight inspection pit
10 Earth rod seal
11 Threaded & unthreaded copperbond earth rod

Kopex

Metal flexible conduits

Kopex flexible conduit systems offer reliable protection for critical power and data cabling in transport, construction and industrial applications.

- IEC, Kite Mark and 3rd party certification
- Low smoke and zero halogen conduits
- Degree of protection up to IP69, Made in UK



Runner items – conduits length 30 meters

Offer	GID	Code	Type
Low acid PVC conduit	7TCA297050R0128	KEBF0430	Diam. 20mm
	7TCA297050R0134	KEBF0530	Diam. 25mm
LSOH* flexible conduit	7TCA297050R0150	KEBT0430	Diam. 20mm
	7TCA297050R0152	KEBT0530	Diam. 25mm
PVC flex conduit	7TCA297020R0097	FLB0430	Diam. 20mm
	7TCA297020R0104	FLB0530	Diam. 25mm
IP66 adaptors	7TCA297020R0489	XQM0404	Diam. 20mm
	7TCA297020R0491	XQM0505	Diam. 25mm
IP65 adaptors	7TCA297050R0089	GQM0404	Diam. 20mm
	7TCA297050R0090	GQM0505	Diam. 25mm
IP54 adaptors	7TCA297050R0006	GAM0404	Diam. 20mm
	7TCA297050R0008	GAM0505	Diam. 25mm

Adaptaflex

Metal & Non-Metal flexible conduits

With a choice of over 6000 products, the range covers metallic and non-metallic flexible conduit systems for the protection of critical power and data cable.

- IEC, Kite Mark and 3rd party certification
- Low smoke and zero halogen conduits
- Degree of protection up to IP69, Made in UK



Runner items – conduits length 25 meters

Type	GID	Code	Designation
Low acid PVC conduit	7TCA296020R0138	SP20/BL/25M	Diam. 20mm
	7TCA296020R0183	SP25/BL/25M	Diam. 25mm
LSOH* flexible conduit	7TCA296130R0007	LFH-SP20/25M	Diam. 20mm
	7TCA296130R0011	LFH-SP25/25M	Diam. 25mm
PVC flex conduit	7TCA296030R0140	SPL20/25M	Diam. 20mm
	7TCA296030R0193	SPL25/25M	Diam. 25mm
IP66 adaptors	7TCA296030R0163	SPL20/M20/M	Diam. 20mm
	7TCA296030R0215	SPL25/M25/M	Diam. 25mm
IP65 adaptors	7TCA296020R0159	SP20/M20/M	Diam. 20mm
	7TCA296020R0204	SP25/M25/M	Diam. 25mm
IP54 adaptors	7TCA296020R0149	SP20/M20/A	Diam. 20mm
	7TCA296020R0194	SP25/M25/A	Diam. 25mm

*LSOH: low smoke zero halogen.

Catalogue

Steel City®metallic boxes and covers
Overview

—
01 **Notched ears on switch boxes**
Steel City® switch boxes feature a longer ear and a special notch. This provides clearance for the screws that are used to attach wall plates to GFCI or rocker-type light switches.
—
02 **MS Bracket boxes**
Mounts without the use of screws. Mounts to the open or closed side of the stud. Works on stud depths up to 4".
—
03 **Eccentric knockouts on square boxes**
Provide better contact with conduit fitting and locknut to the box, improve grounding path, stronger than 3/4" knockout. Available in all four standard-size square boxes. Improved 3/4" knockout position on square boxes.Less labor required to install 3/4" conduit to box. Square boxes also come with concentric Knockouts.
—
04 **Raised ground screw bump in 4" square, 4$^{11}/_{16}$" and utility boxes**
Quicker surface mounting by eliminating the need to remove the portion of the screw that threads through the back of the box. Allows for improved repositioning of grounding conductor. Ground bump standard in 2$^{1}/_{8}$" boxes. Ground bump standard in 1$^{1}/_{2}$" boxes.
—
05 **Pre-installed screws are packaged in raised position**
Eliminates extra step of having to back out the screw during cover installation.

Steel City® is the industry-leading product line of metallic switch and outlet boxes used in electrical construction. Since 1904, Steel City® products have symbolized the highest quality standards in manufacturing and innovative design, with one of the most complete offerings available.

Steel City® products are known for their simple improvements, such as being the first box offering to standardize combination slotted/ phillips screws on all boxes. Steel City® is also recognized as a leader in design innovation, as in our new metal stud bracket.

Steel City® continues to listen to contractors and responds to their ever-changing needs. Contact a Steel City® distributor nearest you to select the right product for your requirements.



—
Advantages of Steel City® boxes and covers



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01



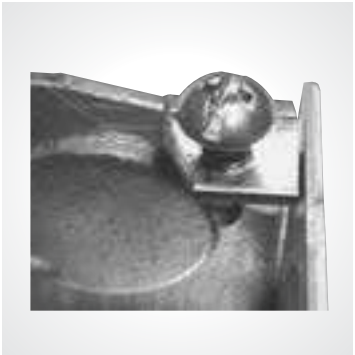
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Steel City® switch and outlet boxes are protected from rust and corrosion by zinc-galvanizing. All clamps and other component parts are electrogalvanized separately, before assembly in the box, to ensure corrosion protection of every surface. Steel City® galvanized finish meets the requirements of Underwriters Laboratories, Inc. and Federal Specifications.

Fastening solutions

Ty-Rap®, Ty-Met®, Ty-Fast®

							Demanding applications	
								
Type	**Ty-Rap® Heat stabilized**	**Ty-Rap® Heat stabilized + UV-resistant**	**Ty-Rap® Heat reactive**	**Ty-Rap® Extra high temperatures**	**Ty-Rap® Flame retardant**	**Ty-Rap® Low Smoke**	**Ty-Rap® UV-resistant black**	**Ty-Rap® Extreme Outdoor**
				High temperatures		**Smoke & flame resistance**		**UV resistance**
Applications	Transportation, Automotive	Transportation, Automotive	Visual safety indicator, MRO, HVAC. Activation temp. 40- 49°C	Transportation, Automotive	Rail, Aerospace HVAC	HVAC plenum installations High-performance smoke & flame requirements	Outdoor	Solar, Transportation
Material	HS PA6.6	PA6.6HSIUV	HR PP	HT PA6.6	FR PA6.6	ECTFE	UV PA6.6	UV PA12
Product series	TYH*M	TY*MX-A	TYHR*M	TYHT* M	TY*MFR	TYV* M	TY*MX	TYC*MX
Max. product series	780N	540N	265N	540N	540N	220N	780N	378N
Operating temperature	-60 to 105°C	-60 to 105°C	0 to 80°C	-60 to 150°C	-20 to 65°C	-60 to 160°C	-60 to 105°C	-40 to 105°C
Max length	770mm	340mm	360mm	617mm	360mm	185mm	1140mm	760mm
Max wire bundle diameter	229mm	100mm	100mm	177mm	100mm	44mm	330mm	228mm
UV-resistance	●	● ● ●	–	●	●	● ● ● ● ●	● ● ●	● ● ● ●
UL flammability rating	V-2	V-2	HB	V2	V-0	V-0	V-2	V-2
Colors								
Easy to install	● ● ● ●	● ● ● ●	● ● ● ●	● ● ● ●	● ● ● ●	● ● ● ●	● ● ● ●	● ● ● ●
Installation tools	ERG50 ERG120	ERG50 ERG120	ERG50 ERG120	ERG50 ERG120	ERG50 ERG120	ERG50 ERG120	ERG50 ERG120	ERG50 ERG120
See page	21	16	24	23	25	28	31	22

See material specifications section on pages 142 to 157.
* See product code structure page 12 for the right suffix.

First developed to solve the problem of bundling the miles of wiring found inside commercial aircrafts, Ty-Rap® cable ties can now be found virtually everywhere– from high performance racing engines to back-yard tool sheds. Self-fastening and extremely durable in demanding applications, the groundbreaking de-sign of the Ty-Rap® cable tie demonstrates how to solve a complex problem with simple technology.

	Demanding applications					Simplicity & design		
								
	Ty-Rap® Chemical Resistant	**Ty-Rap® Extreme Environment**	**Ty-Rap® Detectable**	**Deltec®**	**Ty-Met®**	**Ty-Rap®**	**Ty-Fast®**	**Col-Ty®**
		Chemical resistance	**Contaminant Resistance**	**Utilities & telecom**	**Extreme environments**	**Customization & performance**	**Essential**	**UV resistance Double headed**
	Chemical processing, Autoclave sterilizing	Nuclear, Power plants, Space industry, Environments with risk of smoke generation	Food and beverage, Cosmetic, Any business using detection equipment	Utilities, Packaging	Marine, Rail, Oil & gas, Industrial	Standard applications	OEM, General bundling	Outdoor, Industrial
	Polypropylene	ETFE	DET PA6.6 DET PP	Acetal +UV	Stainless Steel	PA6.6	PA6.6	UV PA12
	TYP*MX	TYZ*M	TY*M*-NDT TY*M-PDT	TYD-*, CSS*	YLS-*-** RS-*-** SS*-* YLD-*-*-*	TY*M*	TY*	CTP*
	265N	540N	540N	1100N	4000N	780N	1100N	600N
	-60 to 80°C	-60 to 170°C	-60 to 85°C -40 to 85°C	-40 to 85°C	-40 to 300°C	-60 to 85°C	-40 to 85°C	-40 to 80°C
	360mm	360mm	360mm	305m	1400mm	1143mm	1200mm	760mm
	100mm	100mm	100mm	4m	425mm	330mm	380mm	220mm
	● ● ●	● ● ● ● ●	● ●	● ● ● ●	● ● ● ● ●	● ● ●	● ●	● ● ● ●
	HB	V-0	HB	HB	Absolutely fireproof	V-2	V-2, V-0	HB
	☐	☐	☐	☐	☐	☐	☐	☐
	● ● ● ●	● ● ● ●	● ● ● ●	● ● ●	●	● ● ● ●	● ● ●	● ● ● ● ●
	ERG50 ERG120	ERG50 ERG120	ERG50 ERG120	WT3D	DAS-250 CT3	ERG50 ERG120	ERG50 ERG120	No tool needed
	30	29	32	34	46	19	66	81

Key Benefits

- 2PC construction- Ty Rap
- 1PC construction- Ty-Fast
- SS316 coated & Uncoated- Ty-Met
- UL, CSA, IEC Certified
- Low smoke zero halogen
- Temperature rating from -60ºC to +170ºC
- Suitable cutting tool available

Catalogue

Building & Home Automation solutions

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:
www.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:
www.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:
www.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:
www.bit.ly/3J7JZmh

Food & Beverage

Discover our solutions to enhance your power quality and productivity

www.bit.ly/40Og3E5



Datacenters

Discover the Applications ready to deploy to be on top of your datacenters.

Intelligent distribution

Continuous power

Arc Flash Mitigation

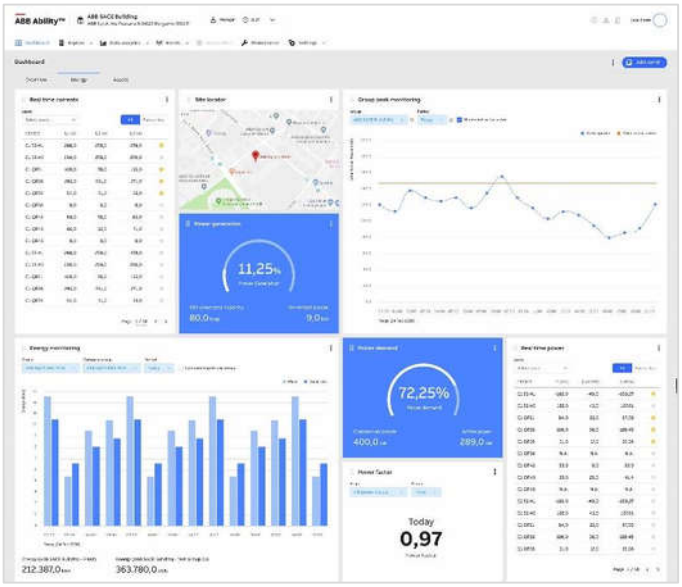
www.bit.ly/40sNxIc



Ability Energy Manager

ABB Ability™ Energy Manager provides real-time understanding of your energy consumption and identifies areas of improvement. And it's scalable from different size of sites as well as ready to use so without any engineering activity required.

www.bit.ly/40Es52y



Useful Tools and Resources

All the tools are available online with free access

Trainings

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/#/



New in 2023: Register to specific trainings and become an ABB value provider! Ask your Sales referent for more info.

NEW

E-Configure online catalogs

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

Link : 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*

Example : www.new.abb.com/products/1SDA071494R1

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



SOC - Selected Optimized Coordination for Motors

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

Link : www.lowvoltage-tools.abb.com/soc/



ABB PartnerHub – Collaboration Platform

A platform to design projects, share with clients and share with ABB teams. Includes DOC Single Line Diagram calculations

Link: www.partnerhub.connect.abb.com



Applications Website

By simply selecting your Market Segment, the standard you need and the end use you are looking for, get Single Line diagrams and related Bill of Materials available to speed up your projects!

Link: www.new.abb.com/low-voltage/low-voltage-products/applications/application-finder





ABB Ability™ Energy Manager - Matching.

Win the Energy Match.

Reaching corporate energy expenditure targets is a matter of knowledge. ABB Ability™ Energy Manager - Matching is the new edition from ABB that helps facility managers, consultants and ESCos assess energy consumption and take decisions to improve energy efficiency. **solutions.abb/ability-energy-manager-matching**

Let's write the future. Together.

Scan to download this brochure

Qatar
ABB LLC
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2023.A.Mar 2023