

Winter
2022

ABB



ABB QATAR

Electrification Offering Guide


All you need, Anytime, Anywhere













- Emergency Lighting
- Low Power UPS
- Furse, Kopex, Adaptaflex, Ty-Rap®
- And more solutions to discover!

Product Panorama

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

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Minicenter

Distribution Boards and Consumer Units



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 incomer kit is included.

Feeders: compatible with S200, SH200, DSE201, DME100 M, DSE203N M.

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

Standard width versions

Width 400mm Ways	Surface mounting		Flush mounting	
	Code	Designation	Code	Designation
4	1SKM804142C0119Q	EMC 312 CS-16D	1SKM804242C0119Q	EMC 312 CF-16D
6	1SKM806142C0119Q	EMC 318 CS-16D	1SKM806242C0119Q	EMC 318 CF-16D
8	1SKM808142C0119Q	EMC 324 CS-16D	1SKM808242C0119Q	EMC 324 CF-16D
12	1SKM812142C0119Q	EMC 336 CS-16D	1SKM812242C0119Q	EMC 336 CF-16D
16	1SKM816142C0119Q	EMC 348 CS-16D	1SKM816242C0119Q	EMC 348 CF-16D
20	1SKM820142C7111Q	EMC 360 CS-16T	1SKM820242C7111Q	EMC 360 CF-16T
24	1SKM824142C7111Q	EMC 372 CS-16T	1SKM824242C0119Q	EMC 372 CF-16T
Top 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

Extra Width EW versions to ease the implementation of DME100M RCBOs. Increased width by 10cm.

W. 500mm Ways	Surface mounting		Flush mounting	
	Code	Designation	Code	Designation
4	1SKM804142C0139Q	EMC 312 CS-16D-EW	1SKM804242C0139Q	EMC 312 CF-16D-EW
6	1SKM806142C0139Q	EMC 318 CS-16D-EW	1SKM806242C0139Q	EMC 318 CF-16D-EW
8	1SKM808142C0139Q	EMC 324 CS-16D-EW	1SKM808242C0139Q	EMC 324 CF-16D-EW
12	1SKM812142C0139Q	EMC 336 CS-16D-EW	1SKM812242C0139Q	EMC 336 CF-16D-EW
16	1SKM816142C0139Q	EMC 348 CS-16D-EW	1SKM816242C0139Q	EMC 348 CF-16D-EW
20	1SKM820142C7131Q	EMC 360 CS-16T-EW	1SKM820242C7131Q	EMC 360 CF-16T-EW
24	1SKM824142C7131Q	EMC 372 CS-16T-EW	1SKM824242C0139Q	EMC 372 CF-16T-EW
Top ext. H200 with Din rail	1SKA254142C0031Q	EMC 200S EXB S-EW	1SKA254242C0031Q	EMC 200S EXB F-EW
Top/bot. ext. H200 with plate	1SKA252142C0031Q	EMC 200 EXB S-EW	1SKA252242C0031Q	EMC 200 EXB F-EW

Minicenter – Row type
Empty panel for Din rail free mounting

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

Nb. The row type Minicenter can be supplied with Extra Width on request.

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

Fitted items



MCBs S201 M, SH201 M

RCBO DSE201 M, DME100 M, DSE203N M



Isolators 3 poles SHD203, E203

SHD200, E200 Isolators

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

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



Runner items

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

To know more
Smart Building catalogue 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	-	-	2CDS271011R0504	2CDS273011R0504
63A	-	-	2CDS271011R0634	2CDS273011R0634

To know more
Smart Building catalogue www.bit.ly/3yLOnmd
Contact us: info@qa.abb.com



DSE201, DME100, DSE203N M Electronic RCBO

ABB offers two ranges of 1P+N electronic RCBO with short circuit rating up to 10kA and rated current up to 50A, meeting the requirements of any project in the Gulf. DSE201 is fitted with a trip indicator in case of residual current trip.

The offer is now enriched with 3P+N RCBO to streamline your installations, replacing combinations of MCBs + RCCBs in a seamless design.

All these ranges are fully compatible with ABB Minicenter distribution boards and meet the highest international standards. Made in Europe.



Runner items: type AC 30mA

Example: 2CSR275053R1164 DSE201 M C16 AC30

Rating	DSE201 1P+N		DME100 M 1P+N 10kA	DSE203N M* NEW 3P+N 10kA
	6kA	10kA		
6A	2CSR255053R1064	2CSR275053R1064	2CDB363500R1064	2TAZ233414R2064
10A	2CSR255053R1104	2CSR275053R1104	2CDB363500R1104	2TAZ233414R2104
16A	2CSR255053R1164	2CSR275053R1164	2CDB363500R1164	2TAZ233414R2164
20A	2CSR255053R1204	2CSR275053R1204	2CDB363500R1204	2TAZ233414R2204
25A	2CSR255053R1254	2CSR275053R1254	2CDB363500R1254	2TAZ233414R2254
32A	2CSR255053R1324	2CSR275053R1324	2CDB363500R1324	2TAZ233414R2324
40A	2CSR255053R1404	2CSR275053R1404	2CDB363500R1404	2TAZ233414R2404
50A	-	2CSR275053R1504	-	2TAZ233414R2504
63A	-	-	-	2TAZ233414R2634

* COO China for DSE203N M. Type A.



NEW

Minicenter panels recommended fitting

eRCBO	Minicenter Standard width	Minicenter Extra Width (EW)
DSE201 6kA	✓	✓
DSE201 M 10kA	✓	✓
DME100 M 10kA	✗	✓
DSE203N M 10kA	✓	✓

To know more

Smart Building catalogue www.bit.ly/3yLOnmd

Contact us: info@qa.abb.com



SCAN ME

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
FH200	2P	125 A	2CSF204001R1950	F204 AC-125/0,03
		25 A	2CSF202006R1250	FH202 AC-25/0,03
		40 A	2CSF202006R1400	FH202 AC-40/0,03
		63 A	2CSF202006R1630	FH202 AC-63/0,03
		4P	25 A	2CSF204006R1250
	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 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

Accessory type	Code	Designation
Auxiliary contact 2NO	1SAE901901R1020	EH04-20N
Auxiliary contact 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



Additional components

Give a final touch to your panels

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



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



Mirage BS

Sub Main Distribution Boards



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 outgoing



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	1SKA660442C4107Q
		GDMR63-ABP2C bottom ext. plinth H250	1SKA661442C4103Q

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

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 from 18kA
- Fixed, plugin and withdrawable versions from 16A
- Fourth protected pole
- Setting at 50deg C for thermomagnetic versions
- Switch disconnecter versions available
- Made in Italy



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

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

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	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

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

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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
- Possibility to connect to the cloud and run predictive maintenance with Ability Energy and Asset Manager
- Certified 44kA 3sec
- Made in Italy



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

Rated current	Execution	Code 3P	Code 4P	
800A	Fixed version	1SDA070892R1	1SDA071522R1	Example: 1SDA071692R1
	Withdrawable - mobile part	1SDA072242R1	1SDA072872R1	
	Withdrawable - fixed part	1SDA073909R1	1SDA073910R1	
1000A	Fixed version	1SDA070922R1	1SDA071552R1	E2.2N 2500 Ekip Dip LSI 4p F HR
	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	

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

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OT, OS

Switch Disconnectors from 16 to 4000A

Fuse-switch Disconnecter 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.

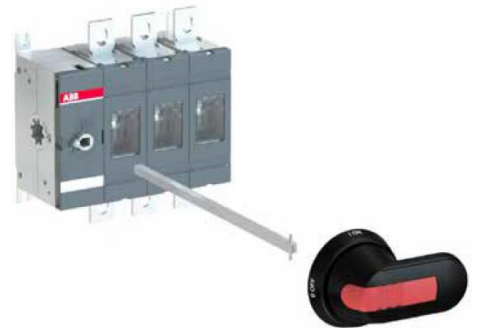
The OS Fuse-switch Disconnecter range is very useful for the protection of variable speed drives and compatible with ultra-fast fuses while offering safe isolation.

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



Switch disconnectors – runner items, 3P, 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 disconnecter – runner items, including shaft and handle

Poles	Rated current	Fuse type	Code	Designation
3P	400A	DIN, size 0, 1, 2	1SCA022719R0250	OS400D03P
	630A	DIN, size 3	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

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TruONE ATS

The world's first true all-in-one Automatic Transfer Switch

www.abb.com/truone



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

To know more

Transfer switches - Manual, motorized, automatic and bypass switches
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Automatic transfer switches TruONE™
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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

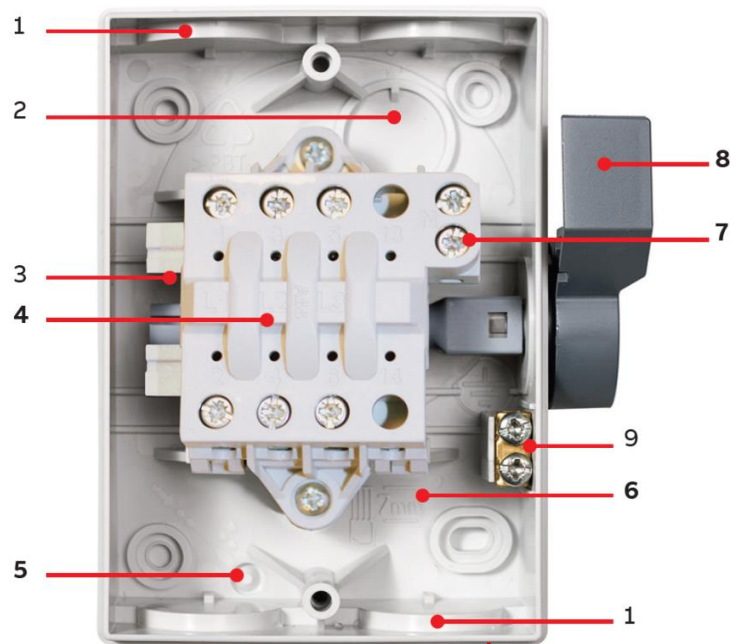
To know more

General catalogue: www.bit.ly/3J1XTqh

Fire rated switches catalogue: www.bit.ly/3qfr7Jx



★ 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

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ABB

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

Selected accessories for contactors

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

Thermal relays, class 10. 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



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



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

PSR, PSE, PSTX Softstarters

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

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

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



- Embedded bypass in all versions, no need for additional contactors and logic
- PSTX range provides specific functions you may expect from a VFD, giving an opportunity to optimize
- Easy selection for standard uses and dedicated software for advanced projects
- Fully compatible with ABB control products and available in SOC selection charts

Runner items

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

PSR - The compact range

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

PSE - The efficient range

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

PSTX - The advanced range

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

To know more

Catalogue: 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
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 range -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

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

Socket / Inlet for panel mounting

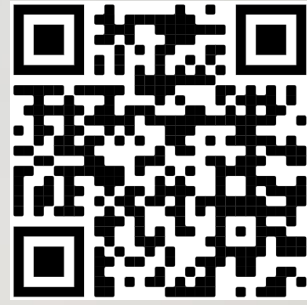
Rating	Terminals	Color	IP44		IP67	
			ABB code	Designation	ABB code	Designation
16A	3 (2P+E)	Blue	2CMA193338R1000	216B6	2CMA101259R1000	216EBU6W
32A	3 (2P+E)	Blue	2CMA193434R1000	232BU6	2CMA101275R1000	232EBU6W
32A	4 (3P+E)	Red	2CMA193442R1000	332BU6	2CMA101279R1000	332EBU6W
32A	5 (3P+N+E)	Red	2CMA193451R1000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

To know more

Catalogue: www.bit.ly/32prtox

Contact us: info@qa.abb.com





Movion®

Where modularity leads to simplicity

- Modular luminaires with multiple mounting options
- Easy, quick installation and maintenance due to smart features
- Excellent lighting distribution and visibility



Website

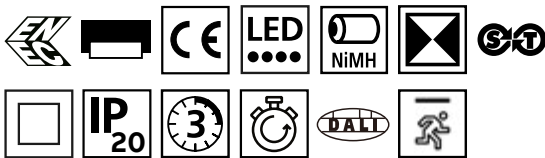
Movion®

Modular & versatile



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



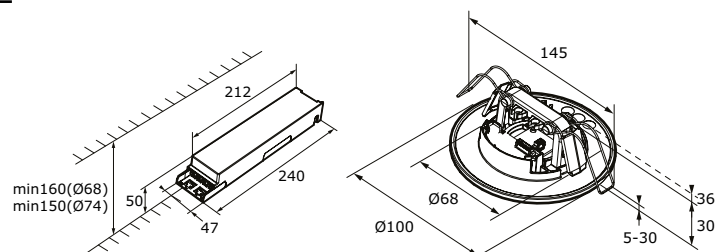
Luminaire

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





Website

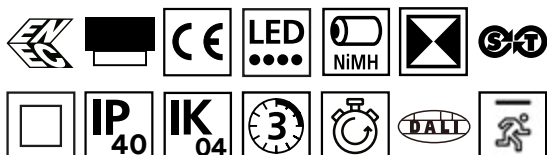
Movion®

Modular & versatile



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



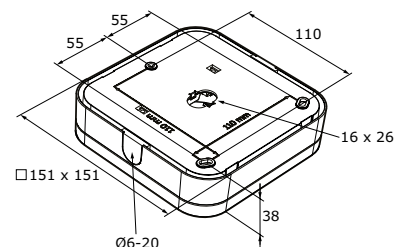
Luminaire

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.





Website

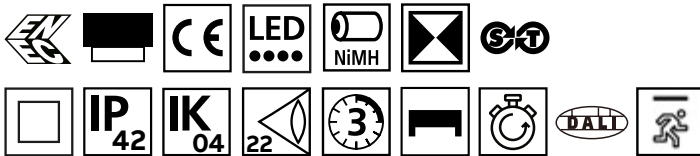
Movion®

Modular & versatile



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	

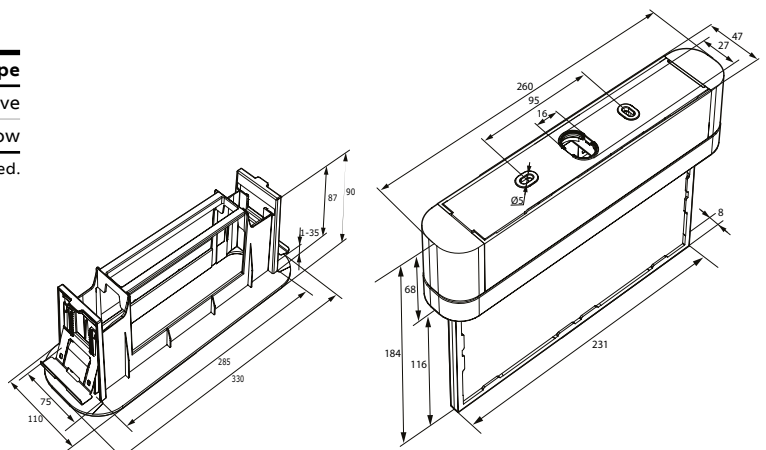
Accessories

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.

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

*Only applicable when the recess kit is used.





Website

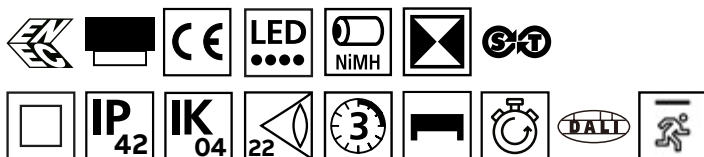
Movion®

Modular & versatile



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						
411113311/50	XTH800S-M3/COM 22M	230-240 AC 50/60Hz						
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	

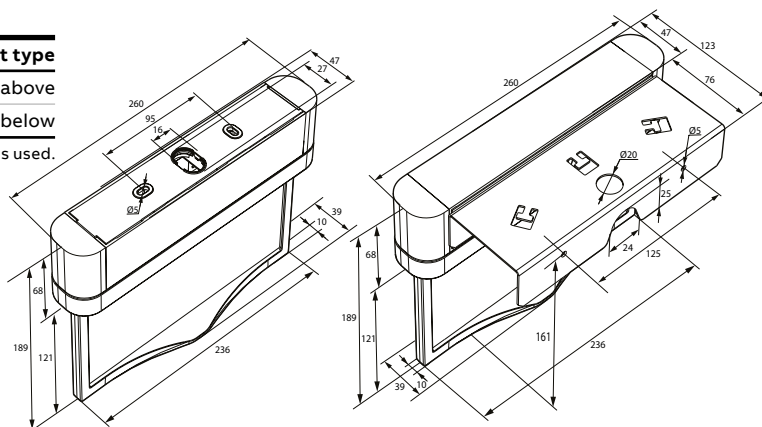
Accessories

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.



Primo3, 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



Primo3



Cordona



Aqualux

Type	Type*	Code	GID	Code	Designation
Primo3	□	7TCA304020R0004	442351S	EL350S-230/1000L Light	
IP65, IK10	■	7TCA304050R0035	442353S	XTE350S-230 Sign	
230VAC/DC	Pictograms for emergency escape signalization are available				
High950 lumen	Please check with your sales representative.				
20m reading dist.					
Cordona	□	7TCA091130R0543	CPW1LA1	1830 lumen, opaque	
Staircase / technical floor		7TCA091130R0544	CPW1LA11	2355 lumen, clear optics	
IP65, IK10					
110-230 AC/DC					
Aqualux	□	7TCA091130R0245	OW1L261HF	Wall mounted, line power	
IP67 protection	or	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		Double sided	
Part No.	Pictogram	Part No.	Pictogram
RSEN2W		RSEN3W/RSEN6W	
RSEN3W		RSEN2W/RSEN2W	
RSEN6W			
RSEN5W			
Arabic legend format			
On request			

*□ exit light ■ exit sign

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





Millenium

Strikingly impressive

A Millenium switch is engineered to impress. It perfectly complements cool environments with its striking, ultra-slim design and distinctive, classy metal and pure glass finishes while its wide range of functionality will meet even the highest of customer demands.



abb.com/lightswitches





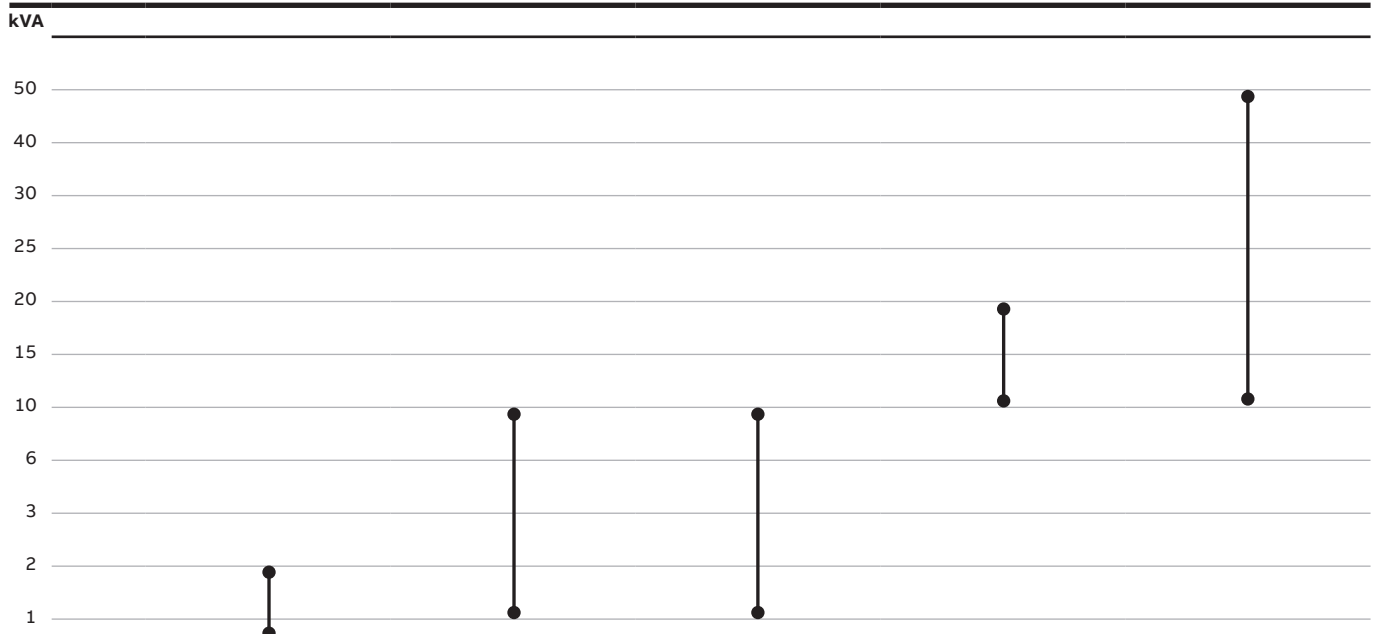
General catalogue



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
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Description	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
	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



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 11T G2 1-10 kVA

Ordering info table

UPS	External battery module (EBM)	Article number	Power (VA/W)	Typical runtime (min)	Dimensions WxHxD (mm)	Weight (kg)
PowerValue 11T G2 1kVA B		4NWP100160R0001	1000/900	13.5	144x228x356	9.3
+	EBM 11T G2 1kVA	4NWP100165R0001	1000/900	65	144x228x356 / pc	18.4 / pc
+	2xEBM 11T G2 1kVA	2x4NWP100165R0001	1000/900	130		
+	3xEBM 11T G2 1kVA	3x4NWP100165R0001	1000/900	200		
+	4xEBM 11T G2 1kVA	4x4NWP100165R0001	1000/900	275		
PowerValue 11T G2 2kVA B		4NWP100161R0001	2000/1800	14	190x327x399	17.2
+	EBM 11T G2 2kVA	4NWP100166R0001	2000/1800	68	190x327x399 / pc	36.2 / pc
+	2xEBM 11T G2 2kVA	2x4NWP100166R0001	2000/1800	135		
+	3xEBM 11T G2 2kVA	3x4NWP100166R0001	2000/1800	210		
+	4xEBM 11T G2 2kVA	4x4NWP100166R0001	2000/1800	290		
PowerValue 11T G2 3kVA B		4NWP100162R0001	3000/2700	14	190x327x399	22.2
+	EBM 11T G2 3kVA	4NWP100167R0001	3000/2700	45	190x327x399 / pc	36.2 / pc
+	2xEBM 11T G2 3kVA	2x4NWP100167R0001	3000/2700	90		
+	3xEBM 11T G2 3kVA	3x4NWP100167R0001	3000/2700	135		
+	4xEBM 11T G2 3kVA	4x4NWP100167R0001	3000/2700	185	190x327x399 / pc	36.2 / pc
PowerValue 11T G2 6kVA B		4NWP100163R0001	6000/6000	14	225x589x452	61.2
+	EBM 11T G2 6-10kVA (16x9)	4NWP100168R0001	6000/6000	64	225x589x452 / pc	95.2 / pc
+	2xEBM 11T G2 6-10kVA (16x9)	2x4NWP100168R0001	6000/6000	129		
+	3xEBM 11T G2 6-10kVA (16x9)	3x4NWP100168R0001	6000/6000	204		
+	4xEBM 11T G2 6-10kVA (16x9)	4x4NWP100168R0001	6000/6000	237		
PowerValue 11T G2 6kVA B2		4NWP100163R0002	6000/6000	19	225x589x452	72.4
+	EBM 11T G2 6-10kVA (20x9)	4NWP100168R0002	6000/6000	87	225x589x452	115.6 / pc
+	2xEBM 11T G2 6-10kVA (20x9)	2x4NWP100168R0002	6000/6000	175		
+	3xEBM 11T G2 6-10kVA (20x9)	3x4NWP100168R0002	6000/6000	276		
+	4xEBM 11T G2 6-10kVA (20x9)	4x4NWP100168R0002	6000/6000	390		
PowerValue 11T G2 10kVA B		4NWP100164R0001	10000/10000	7	225x589x452	60.9
+	EBM 11T G2 6-10kVA (16x9)	4NWP100168R0001	10000/10000	31	225x589x452 / pc	95.2 / pc
+	2x EBM 11T G2 6-10kVA (16x9)	2x4NWP100168R0001	10000/10000	64	225x589x452 / pc	95.2 / pc
+	3x EBM 11T G2 6-10kVA (16x9)	3x4NWP100168R0001	10000/10000	101		
+	4x EBM 11T G2 6-10kVA (16x9)	4x4NWP100168R0001	10000/10000	143		
PowerValue 11T G2 10kVA B2		4NWP100164R0002	10000/10000	9	225x589x452	70.9
+	EBM 11T G2 6-10kVA (20x9)	4NWP100168R0002	10000/10000	43	225x589x452	115.6 / pc
+	2xEBM 11T G2 6-10kVA (20x9)	2x4NWP100168R0002	10000/10000	87		
+	3xEBM 11T G2 6-10kVA (20x9)	3x4NWP100168R0002	10000/10000	137		
+	4xEBM 11T G2 6-10kVA (20x9)	4x4NWP100168R0002	10000/10000	194		

Table 1: Ordering info (UPS with internal batteries)

UPS	External battery module (EBM)	Article number	Power (VA/W)	Typical runtime (min)	Dimensions WxHxD (mm)	Weight (kg)
PowerValue 11T G2 1kVA S		4NWP100160R0002	1000/900		102x228x346	3.8
+	EBM 11T G2 1kVA	4NWP100165R0001	1000/900	48	144x228x356 / pc	18.4 / pc
+	2xEBM 11T G2 1kVA	2x4NWP100165R0001	1000/900	100		
+	3xEBM 11T G2 1kVA	3x4NWP100165R0001	1000/900	155		
+	4xEBM 11T G2 1kVA	4x4NWP100165R0001	1000/900	195		
PowerValue 11T G2 2kVA S		4NWP100161R0002	2000/1800		102x327x390	6.0
+	EBM 11T G2 2kVA	4NWP100166R0001	2000/1800	48	190x327x399 / pc	36.2 / pc
+	2xEBM 11T G2 2kVA	2x4NWP100166R0001	2000/1800	110		
+	3xEBM 11T G2 2kVA	3x4NWP100166R0001	2000/1800	165		
+	4xEBM 11T G2 2kVA	4x4NWP100166R0001	2000/1800	210		
PowerValue 11T G2 3kVA S		4NWP100162R0002	3000/2700		102x327x390	6.0
+	EBM 11T G2 3kVA	4NWP100167R0001	3000/2700	28	190x327x399 / pc	36.2 / pc
+	2xEBM 11T G2 3kVA	2x4NWP100167R0001	3000/2700	70		
+	3xEBM 11T G2 3kVA	3x4NWP100167R0001	3000/2700	110		
+	4xEBM 11T G2 3kVA	4x4NWP100167R0001	3000/2700	140		
PowerValue 11T G2 6kVA S		4NWP100163R0003	6000/6000		225x352x452	14.0
+	EBM 11T G2 6-10kVA (20x9)	4NWP100168R0002	6000/6000	49	225x589x452	115.6 / pc
+	2xEBM 11T G2 6-10kVA (20x9)	2x4NWP100168R0002	6000/6000	133		
+	3xEBM 11T G2 6-10kVA (20x9)	3x4NWP100168R0002	6000/6000	237		
+	4xEBM 11T G2 6-10kVA (20x9)	4x4NWP100168R0002	6000/6000	358		
PowerValue 11T G2 10kVA S		4NWP100164R0003	10000/10000		225x352x452	16
+	EBM 11T G2 6-10kVA (20x9)	4NWP100168R0002	6000/6000	23	225x589x452	115.6 / pc
+	2xEBM 11T G2 6-10kVA (20x9)	2x4NWP100168R0002	6000/6000	64		
+	3xEBM 11T G2 6-10kVA (20x9)	3x4NWP100168R0002	6000/6000	114		
+	4xEBM 11T G2 6-10kVA (20x9)	4x4NWP100168R0002	6000/6000	172		

Table 2: Ordering info (UPS with enhanced battery charger)

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 11RT G2

Ordering info table

UPS	External battery module (EBM)	Article number	Power (VA/W)	Typical runtime (min)	Dimensions WxHxD (mm)	Weight (kg)
PowerValue 11RT G2 1 kVA B		4NWP100200R0001	1000/1000	13'	438x86 (2RU)x309	11.4
+	EBM 11RT G2 1 kVA	4NWP100203R0001	1000/1000	49'	438x86 (2RU)x309/pc	17.9/pc
+	2xEBM 11RT G2 1 kVA	2x4NWP100203R0001	1000/1000	89'		
+	3xEBM 11RT G2 1 kVA	3x4NWP100203R0001	1000/1000	128'		
+	4xEBM 11RT G2 1 kVA	4x4NWP100203R0001	1000/1000	170'		
PowerValue 11RT G2 2 kVA B		4NWP100201R0001	2000/2000	13'	438x86 (2RU)x426.5	19.1
+	EBM 11RT G2 2 kVA	4NWP100204R0001	2000/2000	50'	438x86 (2RU)x426.5	31.3/pc
+	2xEBM 11RT G2 2 kVA	2x4NWP100204R0001	2000/2000	90'		
+	3xEBM 11RT G2 2 kVA	3x4NWP100204R0001	2000/2000	131'		
+	4xEBM 11RT G2 2 kVA	4x4NWP100204R0001	2000/2000	172'		
PowerValue 11RT G2 3 kVA B		4NWP100202R0001	3000/3000	13'	438x86 (2RU)x629	27.9
+	EBM 11RT G2 3 kVA	4NWP100205R0001	3000/3000	51'	438x86 (2RU)x629	44.9/pc
+	2xEBM 11RT G2 3 kVA	2x4NWP100205R0001	3000/3000	91'		
+	3xEBM 11RT G2 3 kVA	3x4NWP100205R0001	3000/3000	133'		
+	4xEBM 11RT G2 3 kVA	4x4NWP100205R0001	3000/3000	173'		

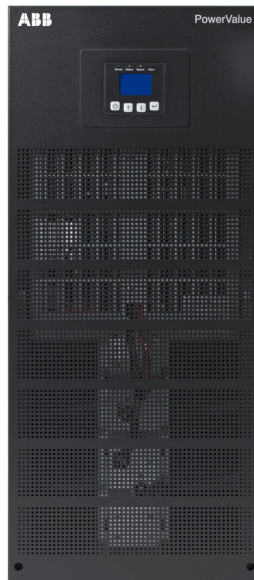
Table 3: Ordering info (UPS with internal batteries)

UPS	External battery module (EBM)	Article number	Power (VA/W)	Typical runtime (min)	Dimensions WxHxD (mm)	Weight (kg)
PowerValue 11RT G2 1 kVA S		4NWP100200R0007	1000/1000	-	438x86 (2RU)x309	5.8
+	EBM 11RT G2 1 kVA	4NWP100203R0001	1000/1000	29'	438x86 (2RU)x309/pc	17.9/pc
+	2xEBM 11RT G2 1 kVA	2x4NWP100203R0001	1000/1000	71'		
+	3xEBM 11RT G2 1 kVA	3x4NWP100203R0001	1000/1000	109'		
+	4xEBM 11RT G2 1 kVA	4x4NWP100203R0001	1000/1000	152'		
PowerValue 11RT G2 2 kVA S		4NWP100201R0007	2000/2000	-	438x86 (2RU)x426.5	8.7
+	EBM 11RT G2 2 kVA	4NWP100204R0001	2000/2000	30'	438x86 (2RU)x426.5	31.3/pc
+	2xEBM 11RT G2 2 kVA	2x4NWP100204R0001	2000/2000	72'		
+	3xEBM 11RT G2 2 kVA	3x4NWP100204R0001	2000/2000	110'		
+	4xEBM 11RT G2 2 kVA	4x4NWP100204R0001	2000/2000	154'		
PowerValue 11RT G2 3 kVA S		4NWP100202R0007	3000/3000	-	438x86 (2RU)x629	9
+	EBM 11RT G2 3 kVA	4NWP100205R0001	3000/3000	31'	438x86 (2RU)x629	44.9/pc
+	2xEBM 11RT G2 3 kVA	2x4NWP100205R0001	3000/3000	73'		
+	3xEBM 11RT G2 3 kVA	3x4NWP100205R0001	3000/3000	111'		
+	4xEBM 11RT G2 3 kVA	4x4NWP100205R0001	3000/3000	155'		

Table 4: Ordering info (UPS with enhanced battery charger)

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.

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

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, transient-free, pure sine wave AC power with extremely tight output voltage regulation.

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

PowerValue 11 / 31 T

Ordering info table

UPS	External battery module (EBM)	Article number	Power (VA/W)	Typical runtime (min)	Dimensions WxHxD (mm)	Weight (kg)
PowerValue 11/31 T 10kVA		4NWP100117R0001	10000/9000		350x1120x815	58
+	1xEBM 11/31T	4NWP100119R0003	10000/9000	69	350x1120x815 / pc	303 / pc (including batteries)
+	2xEBM 11/31T	2x4NWP100119R0003	10000/9000	151		
PowerValue 11/31 T 10kVA B		4NWP100117R0002	10000/9000		350x1120x815	118
+	1xEBM 11/31T	4NWP100119R0003	10000/9000	87	350x1120x815 / pc	303 / pc (including batteries)
+	2xEBM 11/31T	2x4NWP100119R0003	10000/9000	176		
PowerValue 11/31 T 10kVA B2		4NWP100117R0003	10000/9000		350x1120x815	178
+	1xEBM 11/31T	4NWP100119R0003	10000/9000	109	350x1120x815 / pc	303 / pc (including batteries)
+	2xEBM 11/31T	2x4NWP100119R0003	10000/9000	208		
PowerValue 11/31 T 20kVA		4NWP100118R0001	20000/18000		350x1120x815	67.5
+	1xEBM 11/31T	4NWP100119R0003	20000/18000	29	350x1120x815 / pc	303 / pc (including batteries)
+	2xEBM 11/31T	2x4NWP100119R0003	20000/18000	69		
PowerValue 11/31 T 20kVA B		4NWP100118R0002	20000/18000		350x1120x815	188
+	1xEBM 11/31T	4NWP100119R0003	20000/18000	49	350x1120x815 / pc	303 / pc (including batteries)
+	2xEBM 11/31T	2x4NWP100119R0003	20000/18000	97		

Table 5: Ordering info

UPS	External battery module (EBM)	Article number	Power (VA/W)	Typical runtime (min)	Dimensions WxHxD (mm)	Weight (kg)
PowerValue 11/31 T 10kVA S		4NWP100117R0004	10000/9000		350x1120x815	58
+	1xEBM 11/31T	4NWP100119R0003	10000/9000	69	350x1120x815 / pc	303 / pc (including batteries)
+	2xEBM 11/31T	2x4NWP100119R0003	10000/9000	151		
PowerValue 11/31 T 20kVA S		4NWP100118R0004	10000/9000		350x1120x815	67.5
+	1xEBM 11/31T	4NWP100119R0003	10000/9000	49	350x1120x815 / pc	303 / pc (including batteries)
+	2xEBM 11/31T	2x4NWP100119R0003	10000/9000	97		

Table 6: Ordering info (UPS with enhanced battery charger)

ABB POWER PROTECTION

Single-phase uninterruptible power supplies

PowerValue – Reliable power for your critical applications

ABB offers an extensive range of reliable single-phase UPS solutions for IT rooms, networks and other critical applications. These high-quality products provide a cost-effective solution for maximum power protection and are engineered for peak performance and reliability.

- Flexible design, user-replaceable batteries
- High reliability, parallel redundancy compatible
- Double conversion topology
- Low cost of ownership
- Efficient service concept

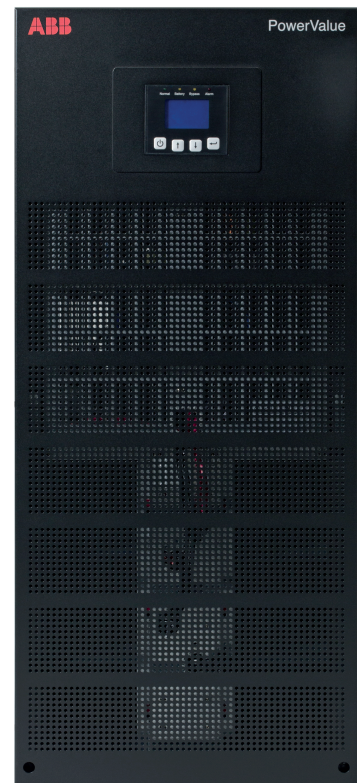
abb.com/ups



PowerValue 11T G2



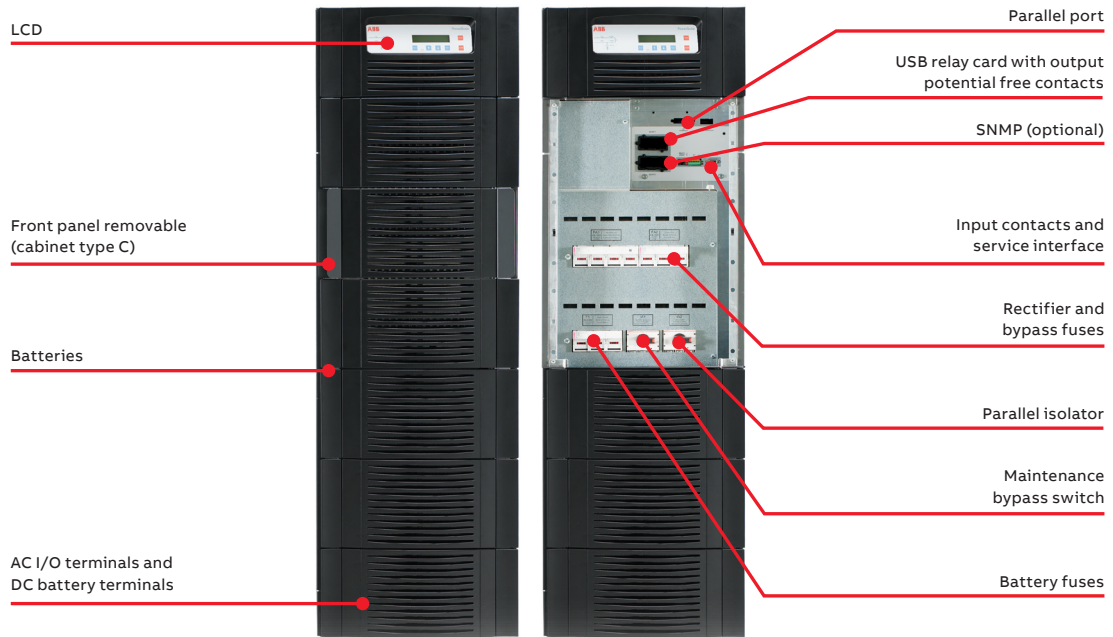
PowerValue 11 RT G2



PowerValue 11 / 31 T

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



PowerScale 33 10-50 kVA

Ordering info table

UPS	External battery cabinet	Article number	Power (VA/W)	Batteries info	Typical runtime (min)	Dimensions WxHxD (mm)	Weight (kg)
UPS Powerscale 33 10kVA Cab.A w/o batt.		4NWP103584A1000	10000/9000			345x720x710	48
+	C-BATT88	4NWP103674BC088	10000/9000	2x44x28Ah	125	490x1400x940	1015*
UPS Powerscale 33 10kVA Cab.A 10 min		4NWP103584A1010	10000/9000	28x8Ah	10	345x720x710	118
UPS Powerscale 33 10kVA Cab.A 15 min		4NWP103584A1015	10000/9000	38x8Ah	15	345x720x710	143
UPS Powerscale 33 10kVA Cab.A 20 min		4NWP103584A1020	10000/9000	46x8Ah	20	345x720x710	163
UPS Powerscale 33 15kVA Cab.A w/o batt.		4NWP103584A1500	15000/13500			345x720x710	48
+	C-BATT88	4NWP103674BC088	15000/13500	2x44x28Ah	110	490x1400x940	1015*
UPS Powerscale 33 15kVA Cab.A 10 min		4NWP103584A1510	15000/13500	42x8Ah	10	345x720x710	153
UPS Powerscale 33 15kVA Cab.A 12 min		4NWP103584A1512	15000/13500	48x8Ah	12	345x720x710	168
UPS Powerscale 33 20kVA Cab.A w/o batt.		4NWP103584A2000	20000/18000			345x720x710	48
+	C-BATT88	4NWP103674BC088	20000/18000	2x44x28Ah	60	490x1400x940	1015*
UPS Powerscale 33 20kVA Cab.A 8 min		4NWP103584A2008	20000/18000	48x8Ah	8	345x720x710	168
UPS Powerscale 33 10kVA Cab.B w/o batt.		4NWP103584B1000	10000/9000			345x1045x710	68
+	C-BATT88	4NWP103674BC088	10000/9000	2x44x28Ah	125	490x1400x940	1015*
UPS Powerscale 33 10kVA Cab.B 30 min		4NWP103584B1030	10000/9000	2x32x8Ah	30	345x1045x710	228
UPS Powerscale 33 10kVA Cab.B 50 min		4NWP103584B1050	10000/9000	2x48x8Ah	50	345x1045x710	308
UPS Powerscale 33 15kVA Cab.B w/o batt.		4NWP103584B1500	15000/13500			345x1045x710	68
+	C-BATT88	4NWP103674BC088	15000/13500	2x44x28Ah	110	490x1400x940	1015*
UPS Powerscale 33 15kVA Cab.B 20 min		4NWP103584B1520	15000/13500	2x36x8Ah	20	345x1045x710	248
UPS Powerscale 33 15kVA Cab.B 30 min		4NWP103584B1530	15000/13500	2x46x8Ah	30	345x1045x710	298
UPS Powerscale 33 20kVA Cab.B w/o batt.		4NWP103584B2000	20000/180000			345x1045x710	68
+	C-BATT88	4NWP103674BC088	20000/180000	2x44x28Ah	60	490x1400x940	1015*
UPS Powerscale 33 20kVA Cab.B 20 min		4NWP103584B2020	20000/180000	2x44x8Ah	20	345x1045x710	288
UPS Powerscale 33 20kVA Cab.B 22 min		4NWP103584B2022	20000/180000	2x48x8Ah	22	345x1045x710	308
UPS Powerscale 33 25kVA Cab.B w/o batt.		4NWP103584B2500	25000/22500			345x1045x710	68
+	C-BATT88	4NWP103674BC088	25000/22500	2x44x28Ah	50	490x1400x940	1015*
UPS Powerscale 33 25kVA Cab.B 15 min		4NWP103584B2515	25000/22500	2x48x8Ah	15	345x1045x710	308

UPS	External battery cabinet	Article number	Power (VA/W)	Batteries info	Typical runtime (min)	Dimensions WxHxD (mm)	Weight (kg)
UPS Powerscale 33 25kVA Cab.C w/o batt.		4NWP103584C2500	25000/22500			440x1400x910	177
+	C-BATT88	4NWP103674BC088	25000/22500	2x44x28Ah	50	490x1400x940	1015*
UPS Powerscale 33 25kVA Cab.C 20 min		4NWP103584C2520	25000/22500	3x46x8Ah	20	440x1400x910	522
UPS Powerscale 33 30kVA Cab.C w/o batt.		4NWP103584C3000	30000/27000			440x1400x910	177
+	C-BATT88	4NWP103674BC088		2x44x28Ah	42	490x1400x940	1015*
UPS Powerscale 33 30kVA Cab.C 10 min		4NWP103584C3010	30000/27000	3x28x8Ah	10	440x1400x910	387
UPS Powerscale 33 30kVA Cab.C 15 min		4NWP103584C3015	30000/27000	3x36x8Ah	15	440x1400x910	447
UPS Powerscale 33 30kVA Cab.C 20 min		4NWP103584C3020	30000/27000	3x48x8Ah	20	440x1400x910	537
UPS Powerscale 33 40kVA Cab.C w/o batt.		4NWP103584C4000	40000/36000			440x1400x910	177
+	C-BATT88	4NWP103674BC088	40000/36000	2x44x28Ah	31	490x1400x940	1015*
UPS Powerscale 33 40kVA Cab.C 10 min		4NWP103584C4010	40000/36000	3x36x8Ah	10	440x1400x910	447
UPS Powerscale 33 40kVA Cab.C 15 min		4NWP103584C4015	40000/36000	3x48x8Ah	15	440x1400x910	537
UPS Powerscale 33 50kVA Cab.C w/o batt.		4NWP103584C5000	50000/45000			440x1400x910	177
+	C-BATT88	4NWP103674BC088	50000/45000	2x44x28Ah	21	490x1400x940	1015*
UPS Powerscale 33 50kVA Cab.C 10 min		4NWP103584C5010	50000/45000	3x46x8Ah	10	440x1400x910	522

* batteries included

Table 7: Ordering info

Millenium, Inora, Metal clad Wiring accessories

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

Cool. Conspicuous. Clever. Striking metal and pure glass light switches in square and ultra slim designs. Millenium surprises with its complexity and functional solutions designed for any interior, any building. A wide range of KNX sensors meet the highest of customer demands. Engineered to offer maximum comfort and happiness

Available in 8 colors, metal and glass
Made in Spain



To know more:
www.bit.ly/3pfKe6X



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

Available in 4 colors



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



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



Top know more:
www.bit.ly/3pdBcHM



Switch to a smarter tomorrow

ABB i-bus[®] KNX Switch Actuators

Switch to a smarter tomorrow.
abb.com/knx



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

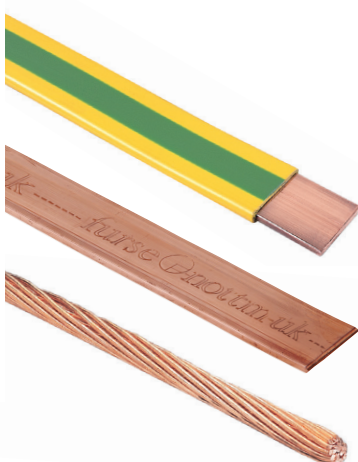
With over 120 years accumulated knowledge of developing earthing and lightning protection solutions, we provide design systems to any recognised standard.

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.



01



02



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.



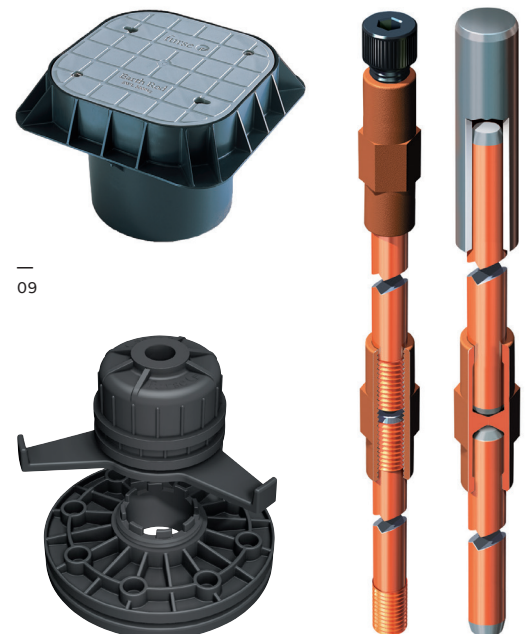
Technical catalogue

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.



Kopex-Ex[®]

Flexible conduit systems and accessories for hazardous areas





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	PA6.6HSIUUV	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 backyard tool sheds. Self-fastening and extremely durable in demanding applications, the groundbreaking design of the Ty-Rap® cable tie demonstrates how to solve a complex problem with simple technology.

Building 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



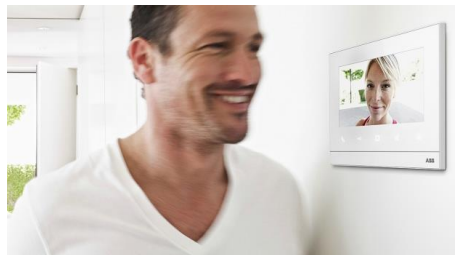
Lighting control system / GRMS
ABB's i-bus® KNX devices are used to control a host of operations in buildings, including lighting, heating, and security. By responding to insights gained through data collected by numerous sensors these intelligent devices help bring energy savings as much as 30 percent,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



To 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.



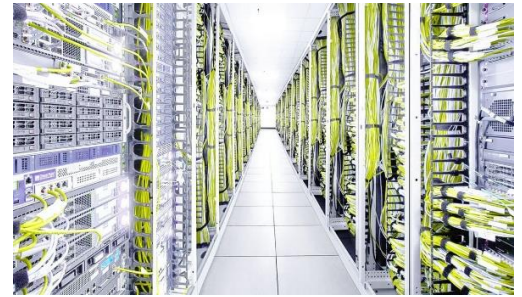
To know more:
www.bit.ly/3J7JZmh











Datacenter solutions - In the mood for data

ABB offer complete solutions for the datacenter, starting with a strong and intelligent electrical distribution system supported by ABB Ability cloud solutions, combined with DPA UPS with outstanding performance and continuity of service. Mechanical loads still require continuous power with TruONE the all-in-one ATS. Final loads are connected with Smisline plugin lines to add/remove and replace in no time any line within the Remote Power Panels.









Power distribution	UPS DPA	TruONE ATS	Smisline plugin devices	PDU / RPP panels	Panorama
Intelligent distribution solutions cloud connected	Best in class Modular UPS with remote monitoring	The fastest ATS, for mechanical loads	World's first plug-in socket system	Configurable Remote Power Panels	Explore the solutions
					
SCAN ME	SCAN ME	SCAN ME	SCAN ME	SCAN ME	SCAN ME

Hospitals solutions - Your Safety first

Beyond the ABB legacy offer to provide safe power to buildings with Cloud connectivity, H+Line panels ensure a continuous supply in operating theatres with IT medical energy distribution. UPS DPA range ensure power availability no matter what happens and Smisline provides the best-in-class plug-in / out system to replace and add new lines while keeping the operations running.



Power distribution	H+ Line IPS panels	UPS DPA	Automatic transfer switches	Smisline plugin devices	Panorama
Intelligent distribution solutions cloud connected	IT medical power supply	Best in class Modular UPS with remote monitoring	The fastest ATS on the market	World's first plug-in socket system	Explore the solutions
					
SCAN ME	SCAN ME	SCAN ME	SCAN ME	SCAN ME	SCAN ME

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Food and Beverage solutions Grow your Own Future

ABB Electrification Food & Beverage solutions
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Digitalization Solutions Big data with small efforts

ABB Energy and Asset Manager
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www.bit.ly/3vtQR8G

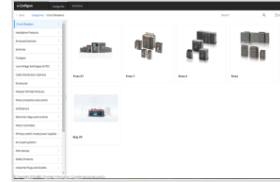


Selection tools

Free of charge tools for daily use

E-Configure online catalogs

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

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



ABB Connect app for smartphone and tablets

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

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

Download with your smartphone



EL Academy – course finder TRAININGS

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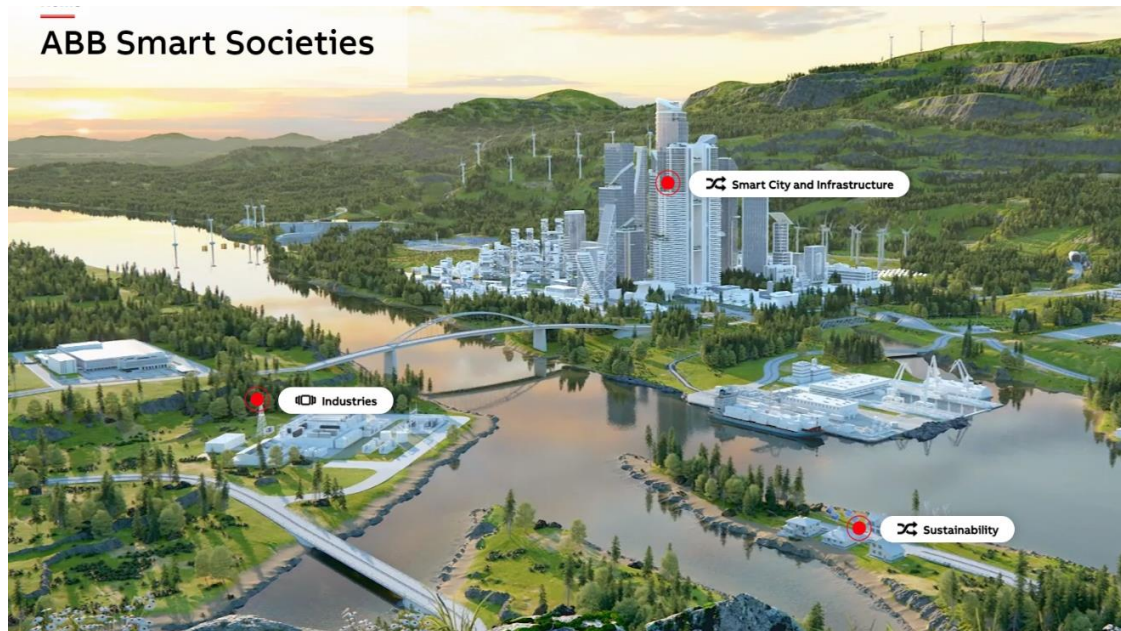




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