



Catalogue | 2016

# System Pro *E* energy Styler Distribution Board Solutions for residential electrical distribution

Power and productivity  
for a better world™



# Solutions for residential electrical distribution

## Index

Introduction	4 - 5
Styler distribution board	6 - 9
SH200 Miniature circuit breaker	10 - 11
DSE201 Residual current circuit breaker	12 - 13





# Solutions for residential electrical distribution

## Introduction

### Worldwide approved quality... meets all international standards

Thanks to its expertise, ABB offers the best solutions with the most effective products for your home. A comprehensive and fully integrated range of highly reliable, easy-to-install products.

The basic installation consists of the mandatory protection products in a home distribution system. It is a composition of distribution boards and different protection devices like moulded case circuit breakers, miniature circuit breakers and residual current circuit breakers.



# Solutions for residential electrical distribution

## MCCBs - Moulded case circuit breakers...

...protection against overloads and short circuits is provided by the thermal-magnetic trip unit with fixed threshold values for putting the circuit breaker into service more rapidly. The best choice for machinery and final distribution line protection.



## MCBs - Miniature circuit breakers...

...provide uncompromising safety and comfort, protecting installations against overload and short circuit to ensure reliability and safety in operation. They are selectively switchable, even underload, in the event of a fault or for maintenance purposes.



## RCBOs - Residual current circuit breakers...

...offer protection against leakage currents which can cause electric shock to human beings, endangering life and protect against possible fire accidents.



# Solutions for residential electrical distribution

## Styler distribution board

Top and bottom feed. Plenty of knockouts on all four sides.

The front cover mounting screws are located behind the door for more safety and attractive image.



Attractive design common for either flush or surface mounting.

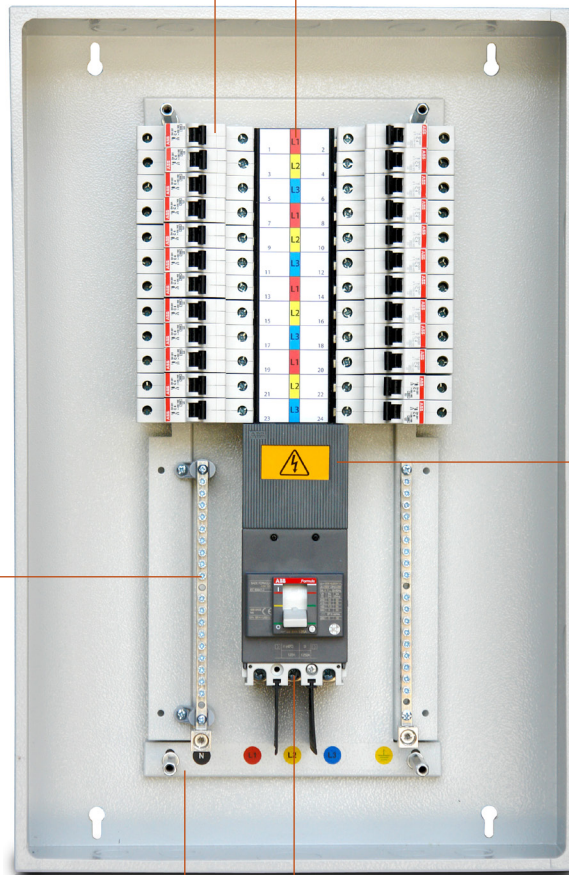


# Solutions for residential electrical distribution

## Styler distribution board

The pan assembly is designed to allow dismounting and mounting of MCB's without obstructing the other MCB's.

The busbar design eliminates risk of the hot spots. Busbar and terminals are shrouded for additional safety protection.



Neutral / Earth terminal bars.

Shrouded busbar and copper connections.

Box with four studs and adjustable nuts kit for easy fit and easy removal of the pan assembly.

Incoming option of MCCB or MCB.

# Solutions for residential electrical distribution

## Styler distribution board



### Technical data

Conforms to	: IEC 61439-1 & 2
Busbar rating	: Up to 250 Amp
Busbar type	: Fully shrouded dual solid tin plate copper
Rated operation voltage	: 240/415 VAC, 50/60 Hz
Rated short-time withstand current	: 17 kA at 415 V for 0.25 sec.
Rated peak withstand current	: 34 kA at 415 V
Range way type	: 12, 18, 24, 30, 36 & 48 SPN 4, 6, 8, 10, 12 & 16 TPN *Other options available upon request
Degree of protection	: IP 41
Enclosure material	: Cold rolled steel
Steel thickness	: 1.0 mm
Knock outs - Body	: Top, bottom and sides
Gland plates	: Fixed gland plates top and bottom
Enclosure finish	: External and internal painting with electrostatic application of powder thermosetting coat with epoxy polyester binders light gray RAL 7035 color, other colors on request
Paint film thickness	: 60-80 microns
Ambient temperature	: Mean/Maximum 50/55 °C
Incoming options	: MCCB Formula A0, A1 & A2 MCB S200, S800
Outgoing options	: MCB SH200 & RCBO DSE201
Terminals capacity	MCB frame size 40 A: 25 mm <sup>2</sup> MCB frame size 63 A: 25 mm <sup>2</sup> MCB frame size 100 A: 50 mm <sup>2</sup> RCBO frame size 32 A: 16 mm <sup>2</sup> MCCB frame size 125 A: Cable lug M6 W 15mm MCCB frame size 250 A: Cable lug M8 W 24mm
Neutral terminals bar	: 16 mm <sup>2</sup> terminals for outgoing cables and 50 mm <sup>2</sup> for incoming cables
Earth terminals bar	: 16 mm <sup>2</sup> terminals for outgoing cables and 50 mm <sup>2</sup> for incoming cables

# Solutions for residential electrical distribution

## Styler distribution board



### Ordering codes

#### TP + N busbar type distribution boards

Incomer: Moulded case circuit breaker

Incomer type	Ordering details	
	Type code	Order code
MCCB Formula A0C 40A	GDMC 3●●A0C 040 C	2CVS 3●●119 E1011
MCCB Formula A0C 63A	GDMC 3●●A0C 063 C	2CVS 3●●116 E1011
MCCB Formula A0C 80A	GDMC 3●●A0C 080 C	2CVS 3●●114 E1011
MCCB Formula A0C 100A	GDMC 3●●A0C 100 C	2CVS 3●●112 E1011
MCCB Formula A1A 125A	GDMC 3●●A1A 125 C	2CVS 3●●111 E1011
MCCB Formula A2B 160A	GDMC 3●●A2B 160 C	2CVS 3●●215 E1011
MCCB Formula A2B 200A	GDMC 3●●A2B 200 C	2CVS 3●●213 E1011
MCCB Formula A2B 250A	GDMC 3●●A2B 250 C	2CVS 3●●211 E1011

#### TP + N busbar type distribution boards

Incomer: Miniature circuit breaker

Incomer type	Ordering details	
	Type code	Order code
MCB S803B-C 40A	GDMC 3●●S803 040 C	2CVS 3●●616 E1011
MCB S803B-C 63A	GDMC 3●●S803 063 C	2CVS 3●●614 E1011
MCB S803B-C 80A	GDMC 3●●S803 080 C	2CVS 3●●613 E1011
MCB S803B-C 100A	GDMC 3●●S803 100 C	2CVS 3●●612 E1011
MCB S203-C 40A	GDMC 3●●S203 040 C	2CVS 3●●515 E1011
MCB S203-C 63A	GDMC 3●●S203 063 C	2CVS 3●●513 E1011
MCB S203-C 80A	GDMC 3●●S203 080 C	2CVS 3●●512 E1011
MCB S203-C 100A	GDMC 3●●S203 100 C	2CVS 3●●511 E1011

\* Ordering code includes only incomer breaker, branches to be ordered separately.

\*\*●● to be replaced with the number of ways as per the below table.

No. of ways			Ordering details	Dimensions H x W x D [mm]		Weight [kg]
1P	3P	●●		Box	Overall	
12	4	12	500 x 400 x 103	521 x 420 x 105	8.0	
18	6	18	553 x 400 x 103	574 x 420 x 105	9.0	
24	8	24	606 x 400 x 103	627 x 420 x 105	10.0	
30	10	30	659 x 400 x 103	680 x 420 x 105	11.0	
36	12	36	713 x 400 x 103	734 x 420 x 105	12.0	
48	16	48	819 x 400 x 103	840 x 420 x 105	13.0	



# Solutions for residential electrical distribution

## SH200 Miniature circuit breaker

A range designed to ensure efficiency and protection

25 mm<sup>2</sup> cage terminals, a well proven and reliable technology.

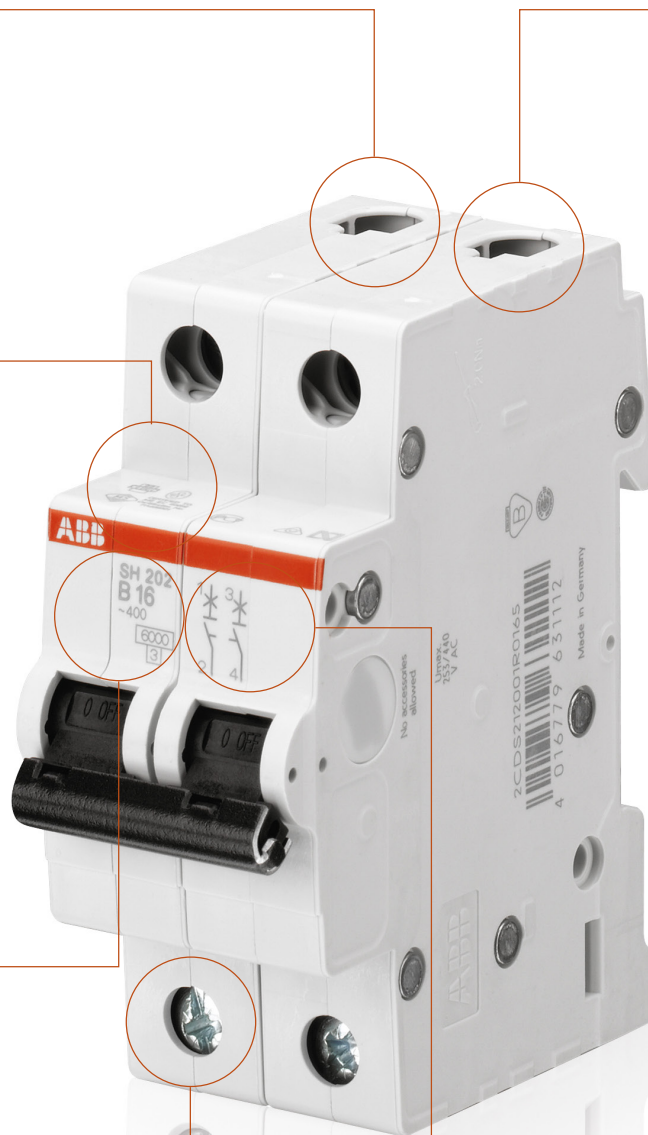
IP20 - finger safety.

Scratch and solvent resistant marking due to laser printing. Easy identification of the products in case of maintenance or replacements.

Easy product coding - easy identification - easy life. Basic technical information already integrated into the name.

Don't lose what's important for you - captive screws.

Wiring diagram and basic technical specification printed on the front of the MCB. Save your time - all important data available right away.



# Solutions for residential electrical distribution

## SH200 Miniature circuit breaker

### Ordering codes

#### MCB SH200 Series - C characteristic - IEC 60898-1 Icn 6kA

No. of poles	Rated current In A	N° Module [17,5 mm]	Ordering details		Weight 1 piece [kg]	Pack Unit
			Type code	Order code		
1	6	1	SH201-C6	2CDS211001R0064	0.125	10
	8	1	SH201-C8	2CDS211001R0084	0.125	10
	10	1	SH201-C10	2CDS211001R0104	0.125	10
	13	1	SH201-C13	2CDS211001R0134	0.125	10
	16	1	SH201-C16	2CDS211001R0164	0.125	10
	20	1	SH201-C20	2CDS211001R0204	0.125	10
	25	1	SH201-C25	2CDS211001R0254	0.125	10
	32	1	SH201-C32	2CDS211001R0324	0.125	10
	40	1	SH201-C40	2CDS211001R0404	0.125	10
2	6	2	SH202-C6	2CDS212001R0064	0.25	5
	8	2	SH202-C8	2CDS212001R0084	0.25	5
	10	2	SH202-C10	2CDS212001R0104	0.25	5
	13	2	SH202-C13	2CDS212001R0134	0.25	5
	16	2	SH202-C16	2CDS212001R0164	0.25	5
	20	2	SH202-C20	2CDS212001R0204	0.25	5
	25	2	SH202-C25	2CDS212001R0254	0.25	5
	32	2	SH202-C32	2CDS212001R0324	0.25	5
	40	2	SH202-C40	2CDS212001R0404	0.25	5
3	6	3	SH203-C6	2CDS213001R0064	0.375	1
	8	3	SH203-C8	2CDS213001R0084	0.375	1
	10	3	SH203-C10	2CDS213001R0104	0.375	1
	13	3	SH203-C13	2CDS213001R0134	0.375	1
	16	3	SH203-C16	2CDS213001R0164	0.375	1
	20	3	SH203-C20	2CDS213001R0204	0.375	1
	25	3	SH203-C25	2CDS213001R0254	0.375	1
	32	3	SH203-C32	2CDS213001R0324	0.375	1
	40	3	SH203-C40	2CDS213001R0404	0.375	1



# Solutions for residential electrical distribution

## DSE201 Residual current circuit breaker

### The highest level of reliability

#### Space for insulated screwdrivers

The larger neutral hole allows the use of an insulated screwdriver to tighten the screw of neutral terminals, ensuring maximum operation safety. All versions are equipped with cage type terminals (16mm<sup>2</sup> load side), with tightening torque of 1.2 Nm.

#### Product coding

All the necessary technical and installation information can be found directly on the device. Product range, tripping characteristics, rated currents, sensitivity, type, breaking capacity, rated voltage, order code, electrical scheme, reference standards and many other specifications are laser printed on the front and side of units.

#### Real contact position indicator on toggle

Directly connected to the moving contact of the device, it indicates the exact position of the contacts at all times (red: closed contacts, green: open contacts).

#### Friendly and protected

Fast installation is supported by the two flying leads for neutral cable and functional earth, each integrated in the device, which can be directly connected to the main neutral bar and main earth bar.

#### Anti counterfeiting

Each DSE201 is equipped with a RFID tag containing a unique serial number assigned by ABB according to ISO/IEC FCD 15693-3 standard in order to authenticate the product. Through this unique serial number, ABB can easily identify counterfeited products and verify the authenticity of each single device.

#### In control

Test button allows the regular check of the functionality of the device.

#### Reduced height

Thanks to its reduced height, only 10 cm, DSE201 makes easier wiring operation inside the consumer unit or the distribution board.





# Solutions for residential electrical distribution

## DSE201 Residual current circuit breaker

### Ordering codes

#### DSE201 - Type A - IEC 61009 Icn 6kA

No. of poles	Rated residual current $I_{\Delta n}$ [mA]	Rated current $I_n$ [A]	Ordering details		Weight 1 piece [kg]	Pack Unit pc.
			Type code	Order code		
<b>B characteristic</b>						
1P+N	30	6	2CSR255151R1065	DSE201 B6 A30	0.180	1
		10	2CSR255151R1105	DSE201 B10 A30	0.180	1
		16	2CSR255151R1165	DSE201 B16 A30	0.180	1
		20	2CSR255151R1205	DSE201 B20 A30	0.180	1
		25	2CSR255151R1255	DSE201 B25 A30	0.180	1
		32	2CSR255151R1325	DSE201 B32 A30	0.180	1
<b>C characteristic</b>						
1P+N	30	6	2CSR255151R1064	DSE201 C6 A30	0.180	1
		10	2CSR255151R1104	DSE201 C10 A30	0.180	1
		16	2CSR255151R1164	DSE201 C16 A30	0.180	1
		20	2CSR255151R1204	DSE201 C20 A30	0.180	1
		25	2CSR255151R1254	DSE201 C25 A30	0.180	1
		32	2CSR255151R1324	DSE201 C32 A30	0.180	1



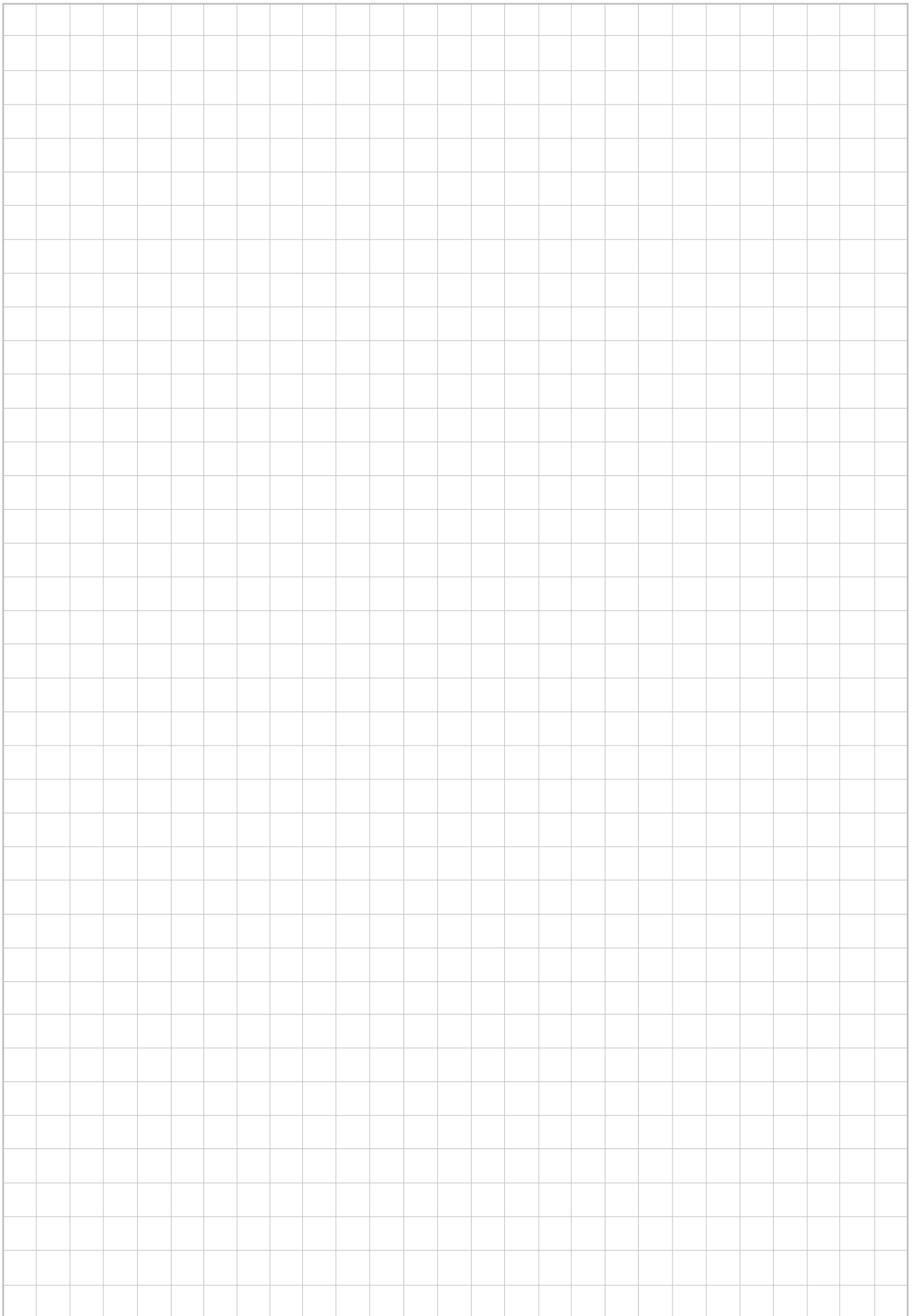
DSE201 ...A30

#### DSE201 - Type AC - IEC 61009 Icn 6kA

No. of poles	Rated residual current $I_{\Delta n}$ [mA]	Rated current $I_n$ [A]	Ordering details		Weight 1 piece [kg]	Pack Unit pc.
			Type code	Order code		
<b>B characteristic</b>						
1P+N	30	6	2CSR255051R1065	DSE201 B6 AC30	0.180	1
		10	2CSR255051R1105	DSE201 B10 AC30	0.180	1
		16	2CSR255051R1165	DSE201 B16 AC30	0.180	1
		20	2CSR255051R1205	DSE201 B20 AC30	0.180	1
		25	2CSR255051R1255	DSE201 B25 AC30	0.180	1
		32	2CSR255051R1325	DSE201 B32 AC30	0.180	1
<b>C characteristic</b>						
1P+N	30	6	2CSR255051R1064	DSE201 C6 AC30	0.180	1
		10	2CSR255051R1104	DSE201 C10 AC30	0.180	1
		16	2CSR255051R1164	DSE201 C16 AC30	0.180	1
		20	2CSR255051R1204	DSE201 C20 AC30	0.180	1
		25	2CSR255051R1254	DSE201 C25 AC30	0.180	1
		32	2CSR255051R1324	DSE201 C32 AC30	0.180	1



DSE201 ...AC30



# Contact us

## ABB Electrical Industries Co. Ltd.

P. O. Box 355251, Riyadh 11383  
Kingdom of Saudi Arabia  
Tel: +966 (0) 11 265 3030  
Fax: +966 (0) 11 265 1211  
Email: [info@sa.abb.com](mailto:info@sa.abb.com)

## ABB Contact Center

Tel: 920010301  
Fax: +966 (0) 11 464 2896  
Email: [contact.center@sa.abb.com](mailto:contact.center@sa.abb.com)



Connect with us:

[new.abb.com/middle-east](http://new.abb.com/middle-east) | [@ABBMiddleeast](https://twitter.com/ABBMiddleeast)



## Note:

As part of its on-going product improvement, ABB reserves the right to modify the characteristics or the products described in this document.

The information given is not contractual. For further details, please contact the ABB company marketing these products in your country.