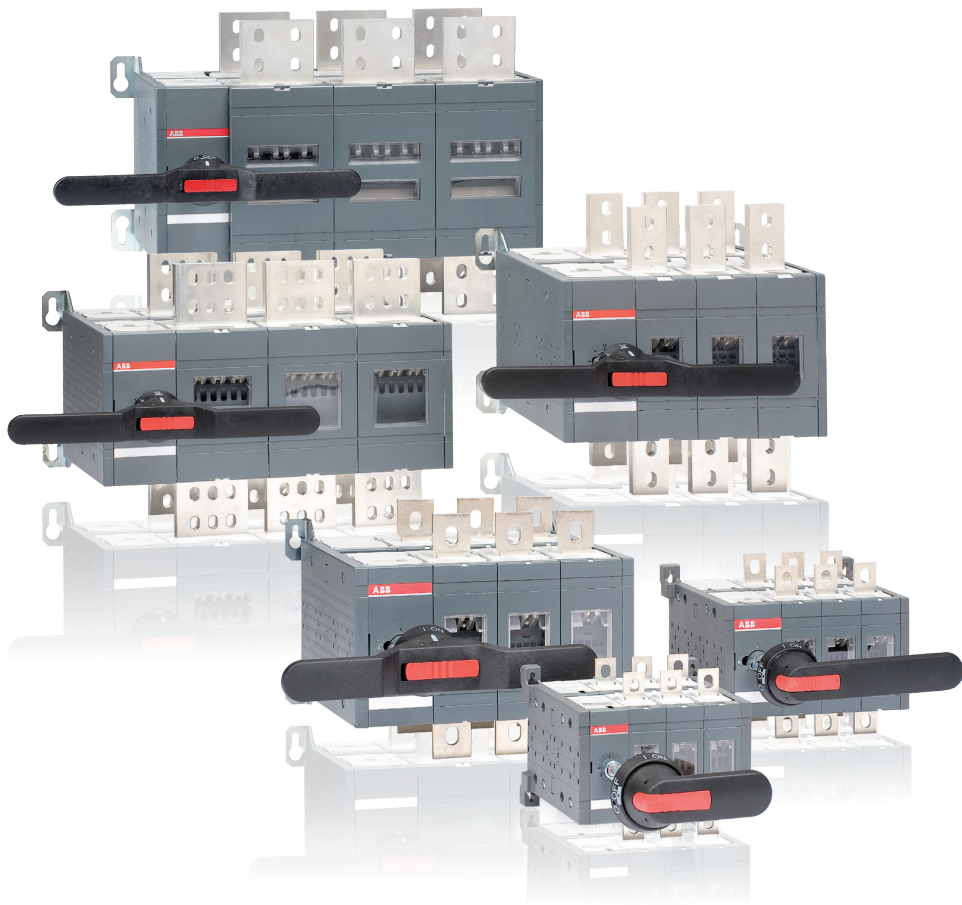


Manual change-over and transfer switches OT_C Installation and operating instructions



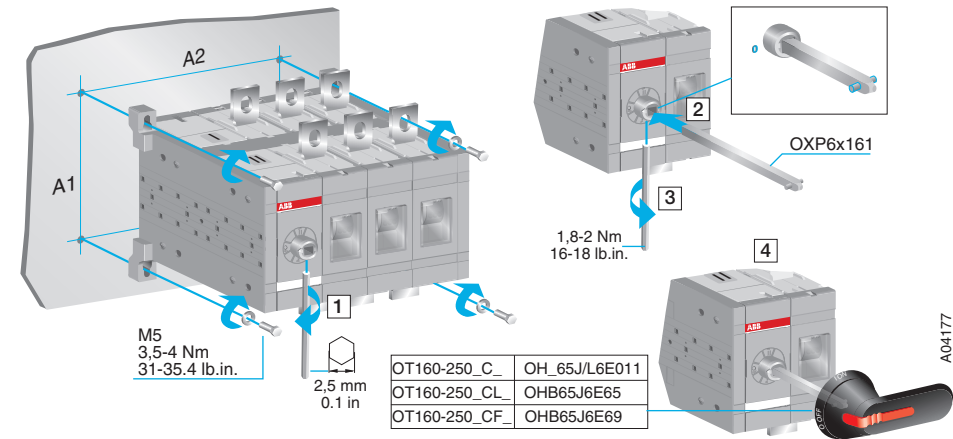
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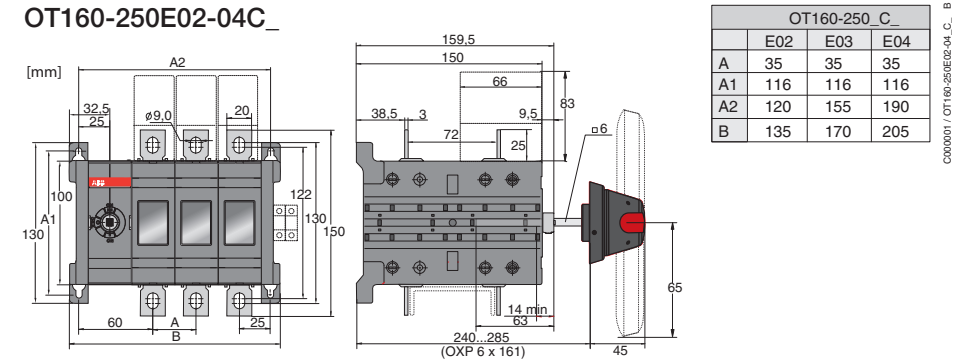
Operation

OT160-3200_C	Operation 0 I 0 II 0 Switch II Close: [Bar 1] [Bar 2] [Bar 3] Open: [Bar 1] [Bar 2] [Bar 3] Switch I Close: [Bar 1] [Bar 2] [Bar 3] Open: [Bar 1] [Bar 2] [Bar 3]
OT160-3200_CL	Operation I II II II I Switch II Close: [Bar 1] [Bar 2] [Bar 3] Open: [Bar 1] [Bar 2] [Bar 3] Switch I Close: [Bar 1] [Bar 2] [Bar 3] Open: [Bar 1] [Bar 2] [Bar 3]
OT160-800_CF	Operation 0 I 0 II 0 Switch II Close: [Bar 1] [Bar 2] [Bar 3] Open: [Bar 1] [Bar 2] [Bar 3] Switch I Close: [Bar 1] [Bar 2] [Bar 3] Open: [Bar 1] [Bar 2] [Bar 3]

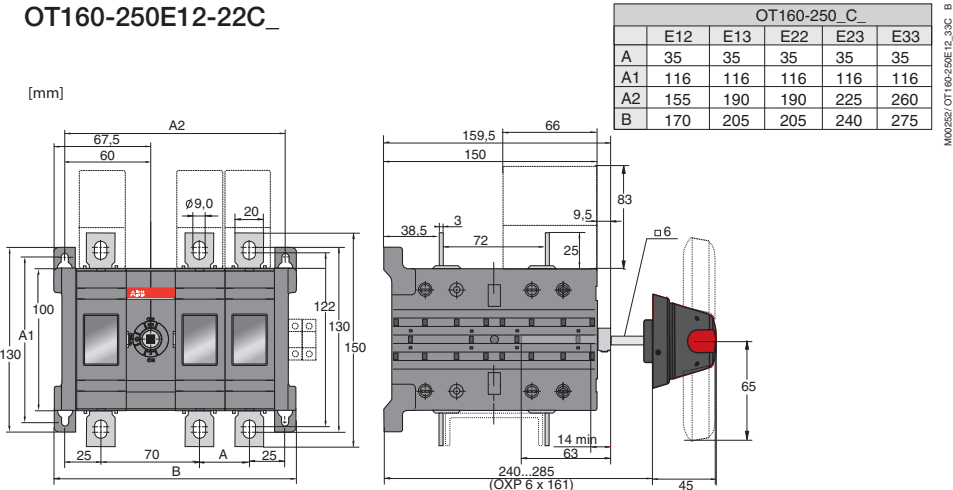
AUG015



OT160-250E02-04C_

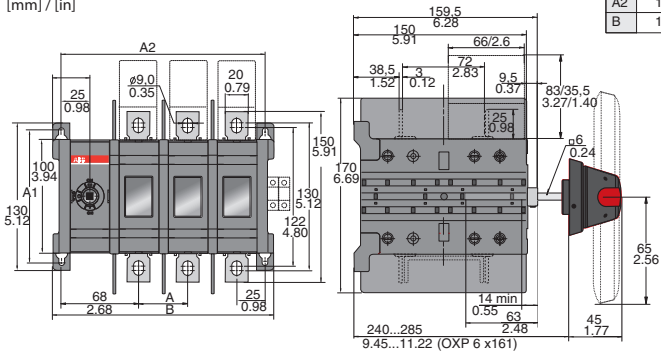


OT160-250E12-22C_



OT200U02-04C_

[mm] / [in]



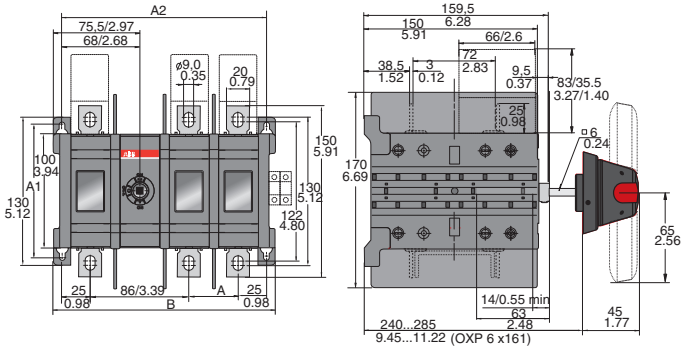
OT200_C			
	U02	U03	U04
A	43 / 1.69	43 / 1.69	43 / 1.69
A1	116 / 4.57	116 / 4.57	116 / 4.57
A2	136 / 5.35	179 / 7.05	222 / 8.74
B	151 / 5.94	194 / 7.64	237 / 9.33

C000602 / OT200U02-04_C_ B

A06002

OT200U12-22C_

[mm] / [in]

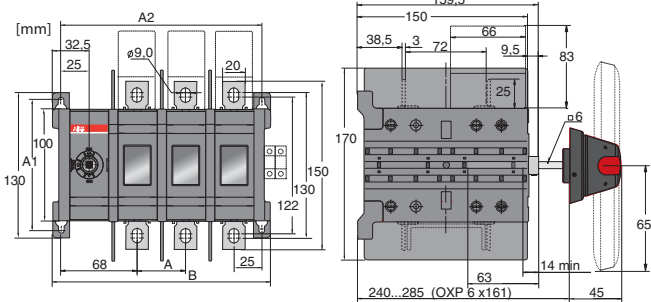


OT200_C				
	U12	U13	U22	U23
A	43 / 1.69	43 / 1.69	43 / 1.69	43 / 1.69
A1	116 / 4.57	116 / 4.57	116 / 4.57	116 / 4.57
A2	179 / 7.05	222 / 8.75	222 / 8.74	265 / 10.43
B	194 / 7.64	237 / 9.34	237 / 9.33	280 / 11.02

M00233 / OT200U12-23C_ B

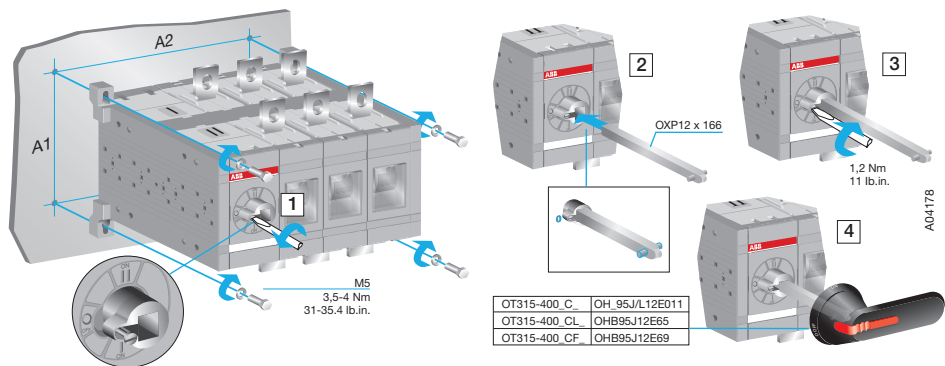
OT160-250E_WC_

[mm]

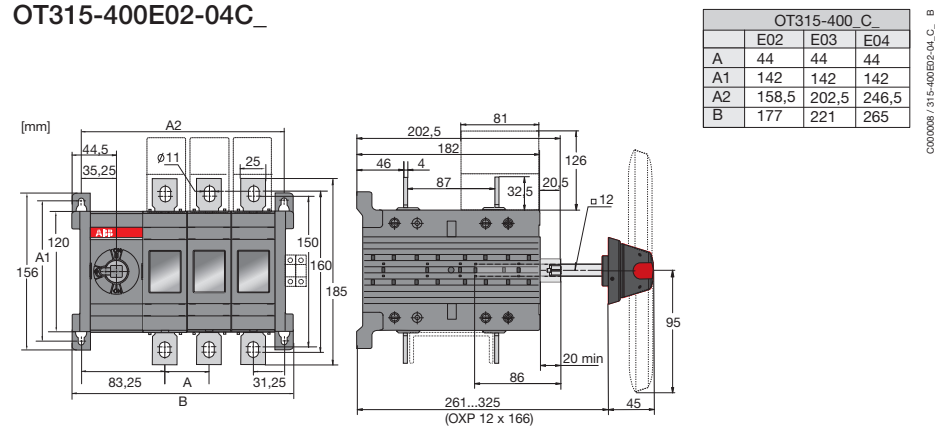


OT160-250_WC_			
	E02	E03	E04
A	43	43	43
A1	116	116	116
A2	136	179	222
B	151	194	237

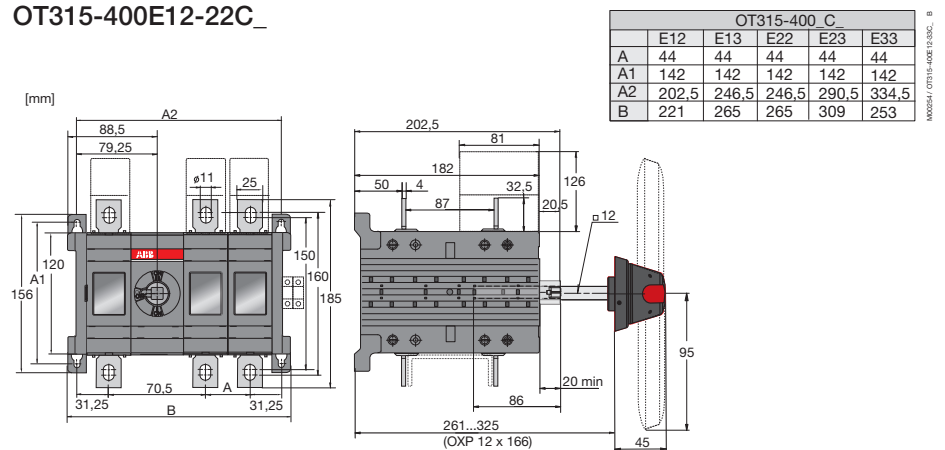
C000010 / OT160-250E_WC_ B



OT315-400E02-04C_



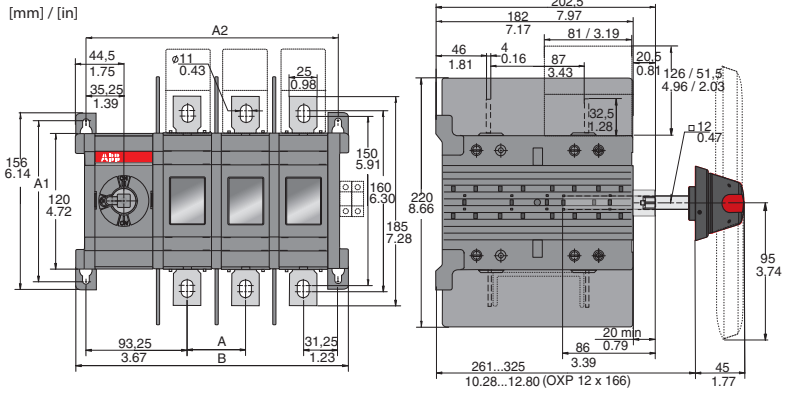
OT315-400E12-22C_



OT400U02-04C_

OT400_C_			
	U02	U03	U04
A	54 / 2.13	54 / 2.13	54 / 2.13
A1	142 / 5.59	142 / 5.59	142 / 5.59
A2	178.5 / 7.03	232.5 / 9.15	286.5 / 11.28
B	197 / 7.76	251 / 9.88	305 / 12.01

C00009 / OT400U02-04_C_ B

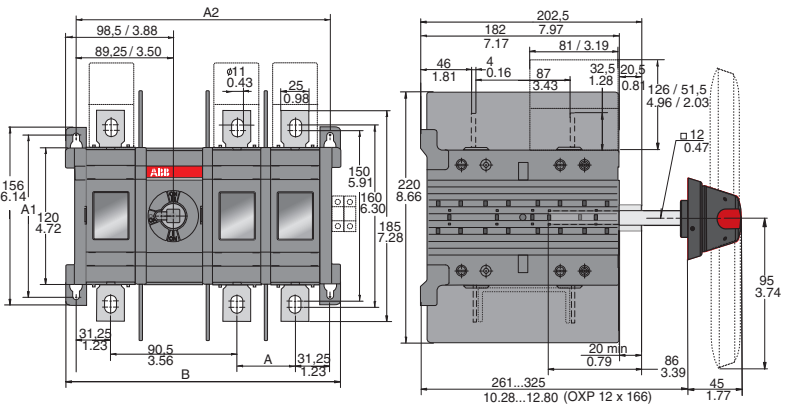


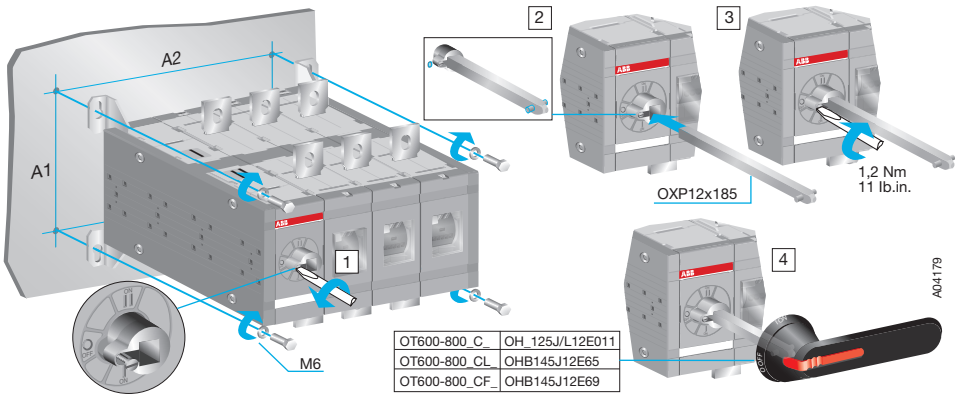
A06003

OT400U12-22C_

OT400_C_				
	U12	U13	U22	U23
A	54 / 2.13	54 / 2.13	54 / 2.13	54 / 2.13
A1	142 / 5.59	142 / 5.59	142 / 5.59	142 / 5.59
A2	232.5 / 9.15	286.5 / 11.28	286.5 / 11.28	340.5 / 13.41
B	251 / 9.88	305 / 12.01	305 / 12.01	359 / 14.13

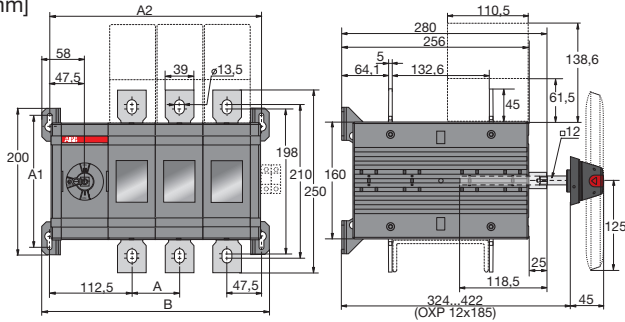
M00255 / OT400U12-22C_ B





OT630-800E02-04C_

[mm]

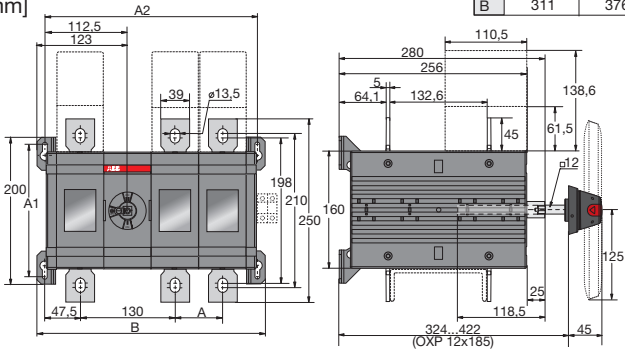


OT630-800_C_			
	E02	E03	E04
A	65	65	65
A1	180	180	180
A2	225	290	355
B	246	311	376

M00088/OT630-800E02-04C_ B

OT630-800E12-22C_

[mm]



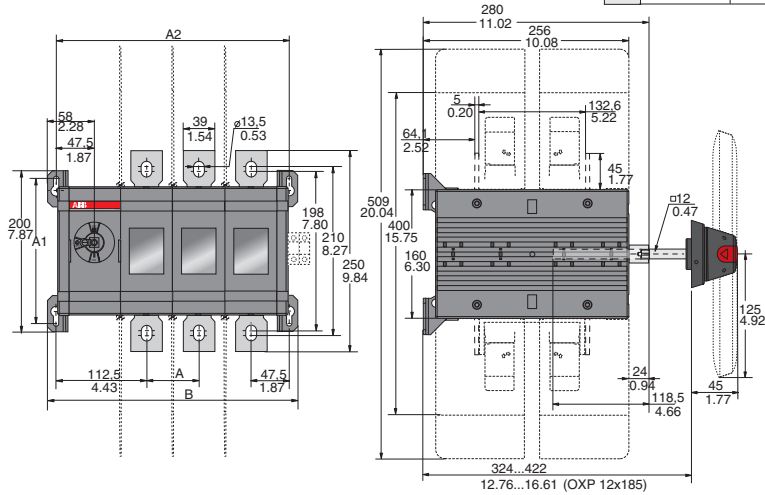
OT630-800_C_					
	E12	E13	E22	E23	E33
A	65	65	65	65	65
A1	180	180	180	180	180
A2	290	355	355	420	485
B	311	376	376	441	506

M00089/OT630-800E12-22C_ B

OT600U02-04C_

OT600_C_			
	U02	U03	U04
A	65 / 2.56	65 / 2.56	65 / 2.56
A1	180 / 7.09	180 / 7.09	180 / 7.09
A2	225 / 8.86	290 / 11.42	355 / 13.98
B	246 / 9.69	311 / 12.24	376 / 14.80

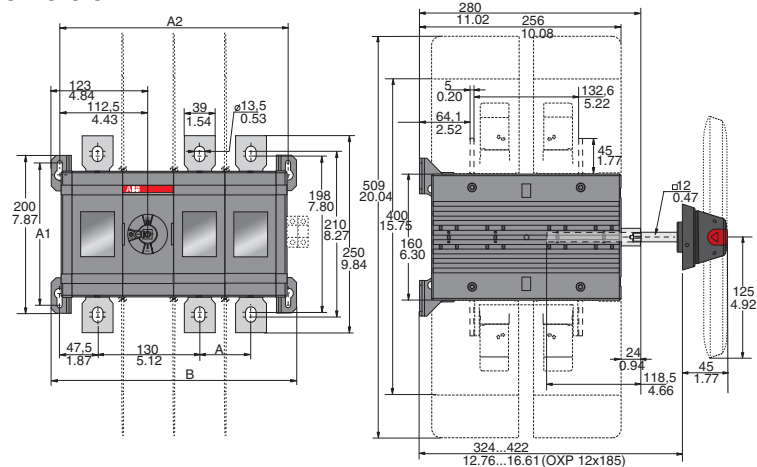
[mm] / [in]

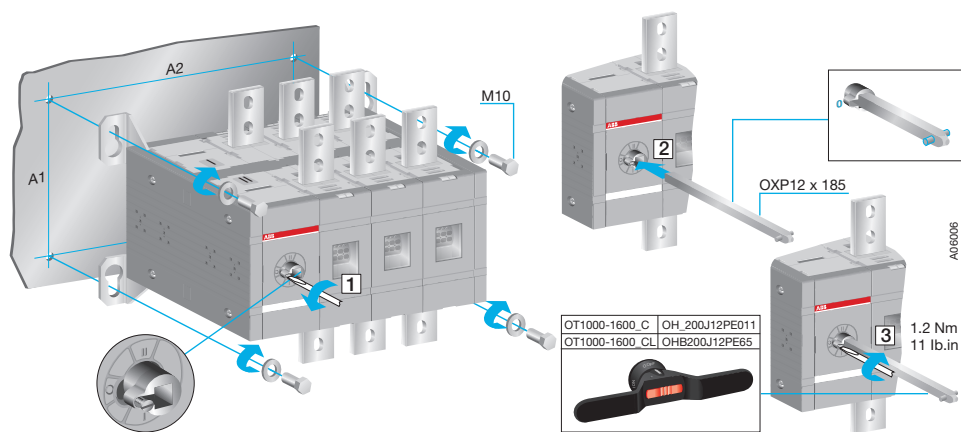


OT600U12-22C_

OT600_C_					
	U12	U13	U22	U23	U33
A	65 / 2.56	65 / 2.56	65 / 2.56	65 / 2.56	65 / 2.56
A1	180 / 7.09	180 / 7.09	180 / 7.09	180 / 7.09	180 / 7.09
A2	290 / 11.42	355 / 13.98	355 / 13.98	420 / 16.54	485 / 19.10
B	311 / 12.24	376 / 14.80	376 / 14.80	441 / 17.36	506 / 19.92

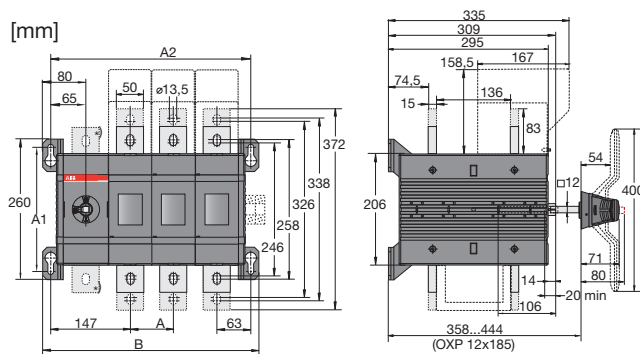
[mm] / [in]





OT1000-1600E02-04C

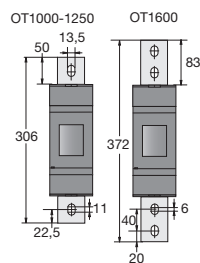
[mm]



*) N3 types

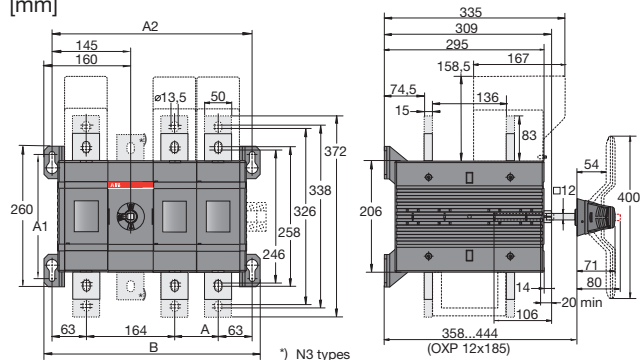
OT1000-1600_C_			
	E02	E03	E04
A	80	80	80
A1	230	230	230
A2	290	370	450
B	320	400	480

M00155/OT1000-1600E_C-1 D



OT1000-1600E12-22C_

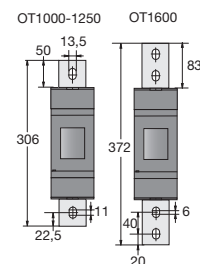
[mm]



*) N3 types

OT1000-1600_C_			
	E12	E13	E22
A	80	80	80
A1	230	230	230
A2	370	450	450
B	400	480	480

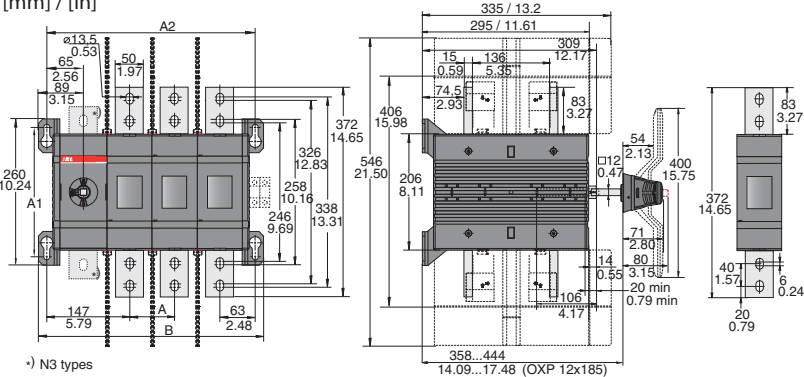
400176/OT1000-1600E12-22C-1 D



OT800-1200U02-04C_

OT800-1200_C			
	U02	U03	U04
A	80 / 3.15	80 / 3.15	80 / 3.15
A1	230 / 9.06	230 / 9.06	230 / 9.06
A2	290 / 11.42	370 / 14.56	450 / 17.72
B	320 / 12.60	400 / 15.75	480 / 18.90

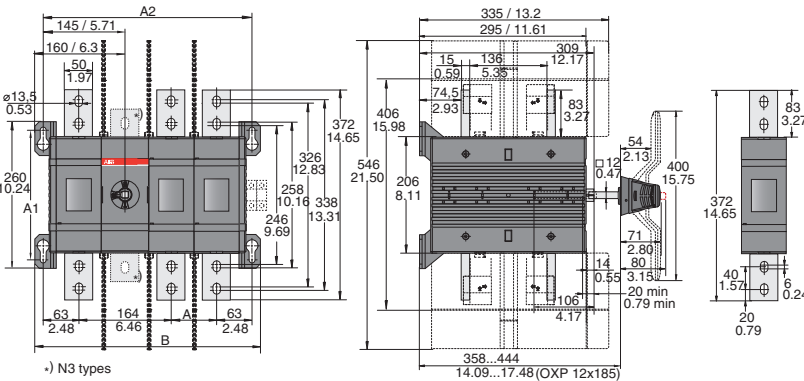
[mm] / [in]

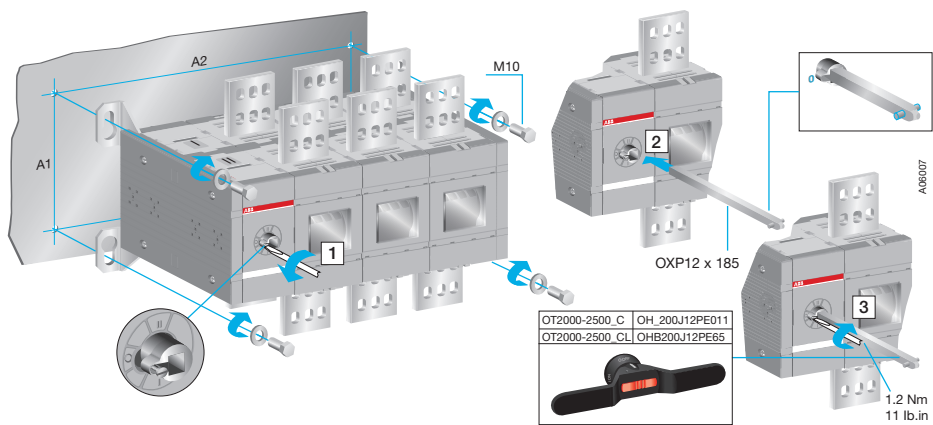


OT800-1200U12-22C_

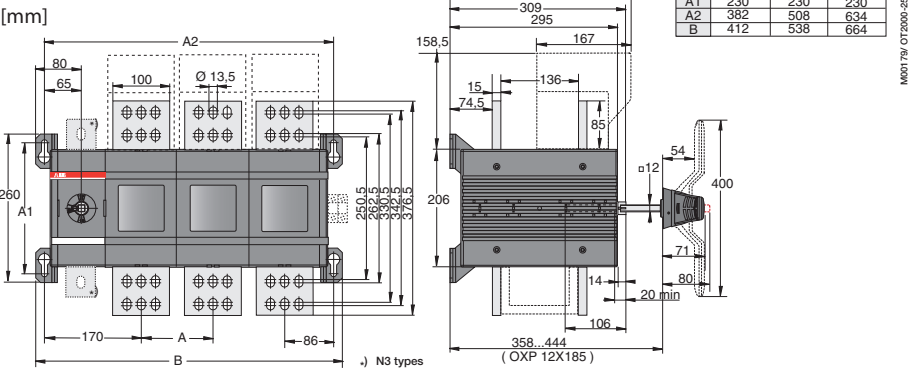
OT800-1200_C			
	U12	U13	U22
A	80 / 3.15	80 / 3.15	80 / 3.15
A1	230 / 9.06	230 / 9.06	230 / 9.06
A2	370 / 14.56	450 / 17.72	450 / 17.72
B	400 / 15.75	480 / 18.90	480 / 18.90

[mm] / [in]

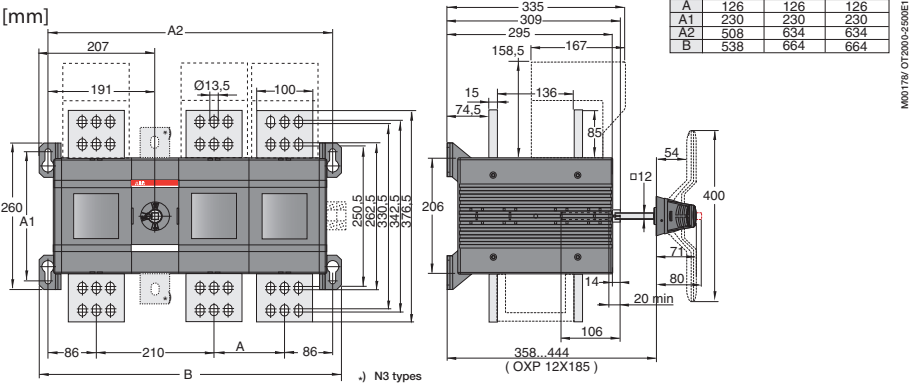


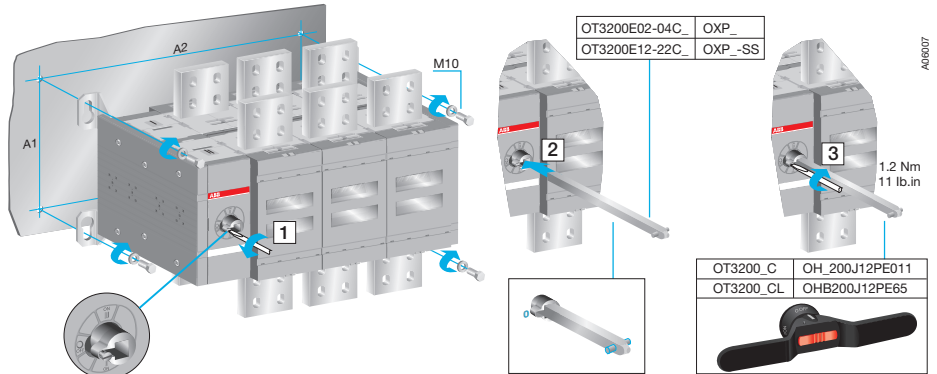


OT2000-2500E02-04C_



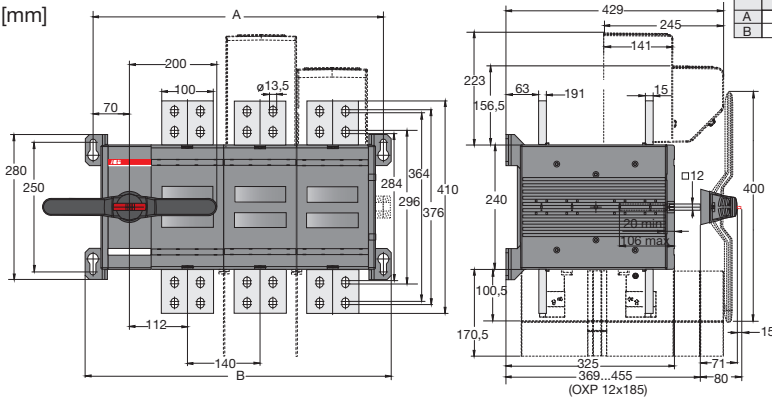
OT2000-2500E12-22C_





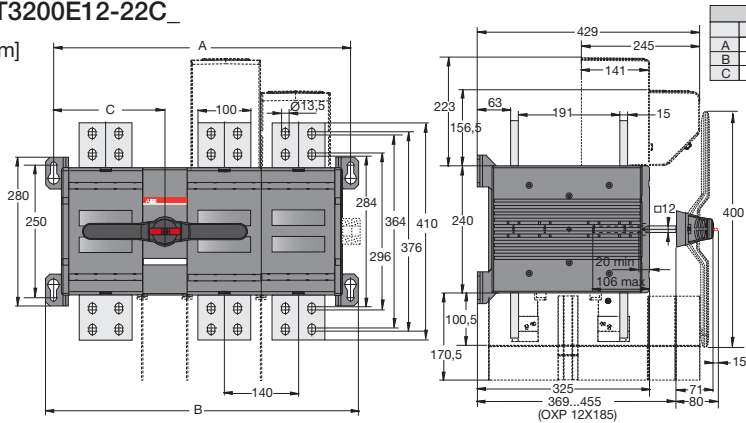
OT3200E02-04C_

[mm]

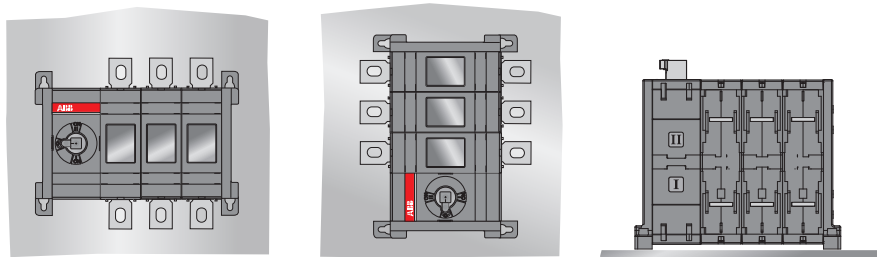


OT3200E12-22C_

[mm]

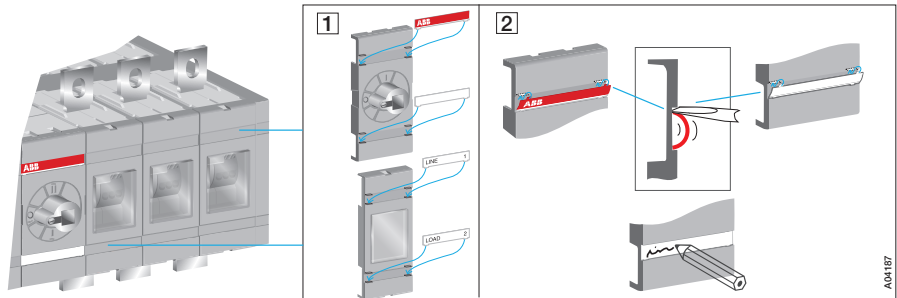


Mounting positions



AD01108

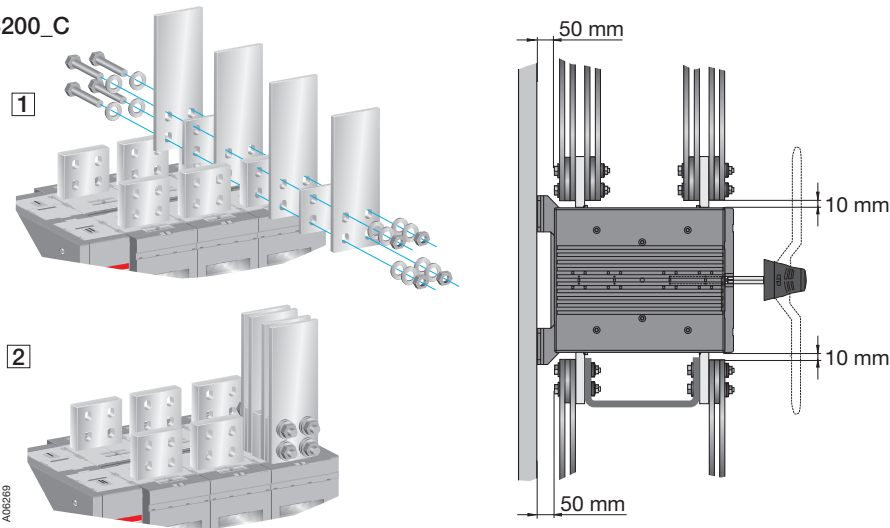
Label



AD01187

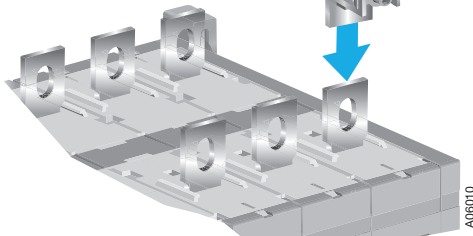
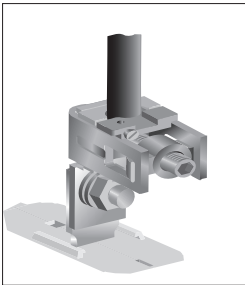
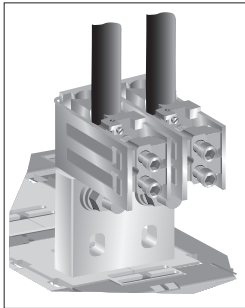
Connections

OT3200_C



AD0269

OZX_



OT2000-2500E_C_
OT3200E_C_

OZXB3
OZXB4
OZXB5
OZXB6
OZXB7L

OT1000-1600E_C_

OZXB3
OZXB4
OZXB5
OZXB6*
OZXB7L

OT630-800E_C_

OZXB3
OZXB4
OZXB5
OZXB6*
OZXB7L

OT315-400E_C_

OZXB2L
OZXB3
OZXB7
OZXB7L
OZXB8
OZXB9

OT160-250E_C_

OZXB1L
OZXB2
OZXB2L
OZXB8
OZXB9

OT800-1200U_C_
OZXA-1200_
OZXA-1206_

* max. 1 pcs/side

OT600U_C_
OZXA-800_
OZXA-806_

* max. 1 pcs/side

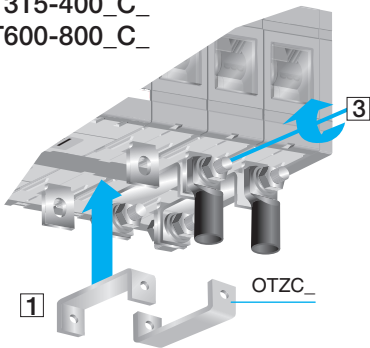
OT400U_C_
OZXA-400_
OZXA-406_

OT200U_C_
OZXA-200_
OZXA-206_

A06010

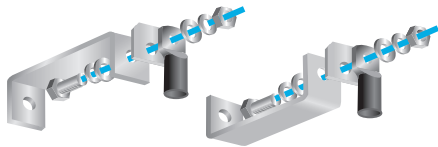
OTZC_

OT160-250_C_
OT315-400_C_
OT600-800_C_



OT160-250_C_	OTZC13, OTZC14
OT315-400_C_	OTZC23, OTZC24
OT600-800_C_	OTZC33, OTZC34

2



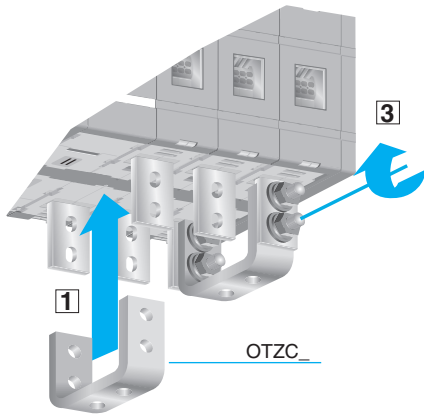
630A



800A

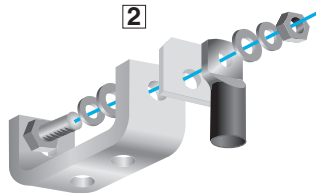


OT1000-1600_C_

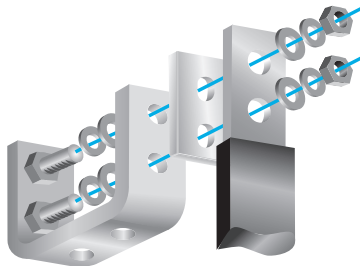


OT1000-1250E_C_	OTZC43, OTZC44
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2

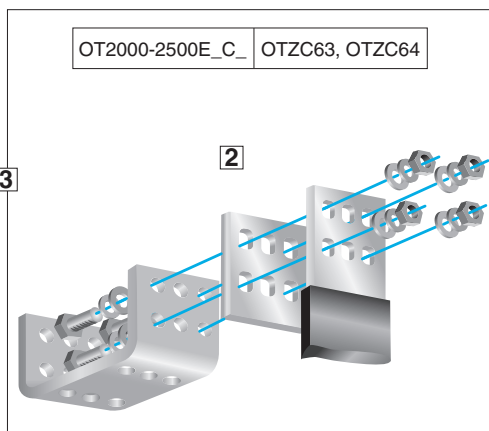
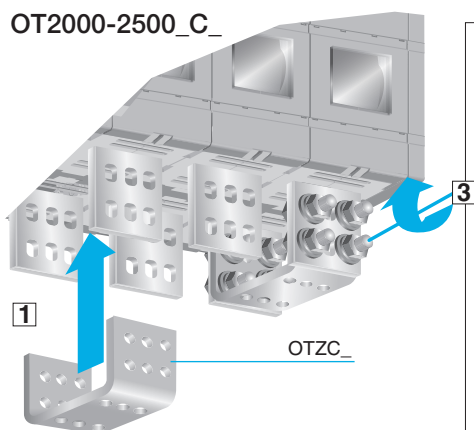


OT1600E_C_	OTZC53, OTZC54
OT800-1200U_C_	

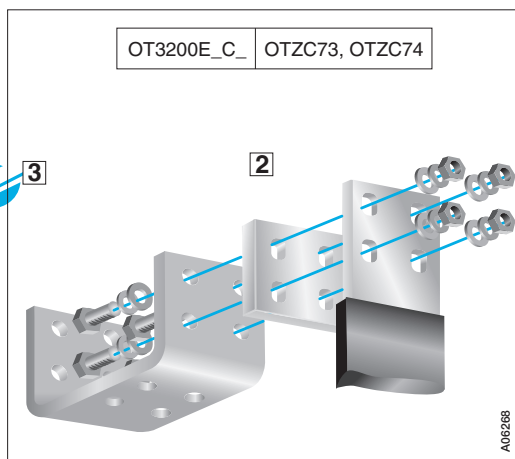
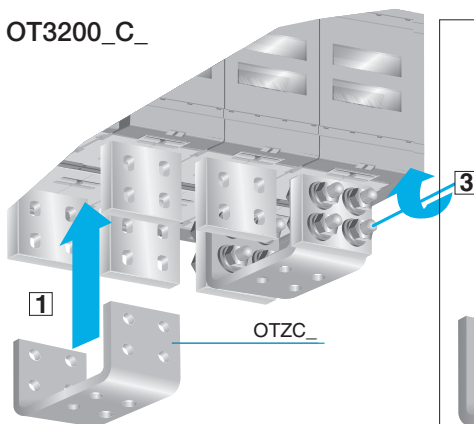


A06009

OT2000-2500_C_



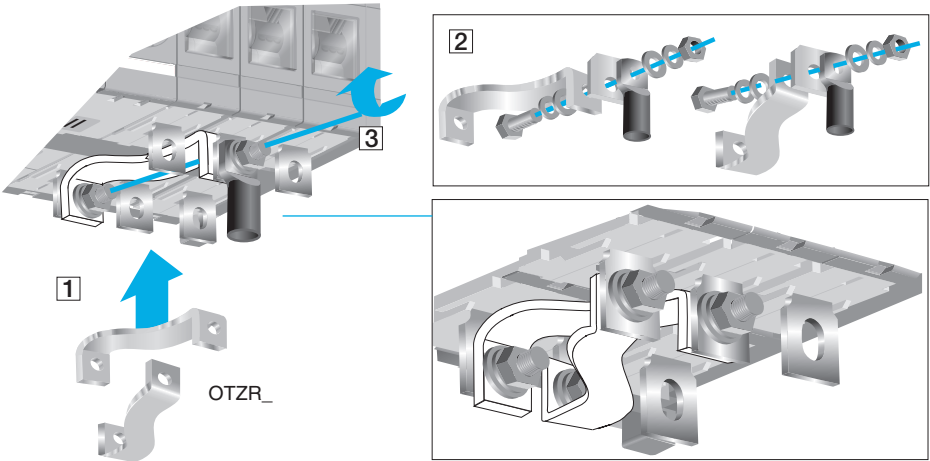
OT3200_C_



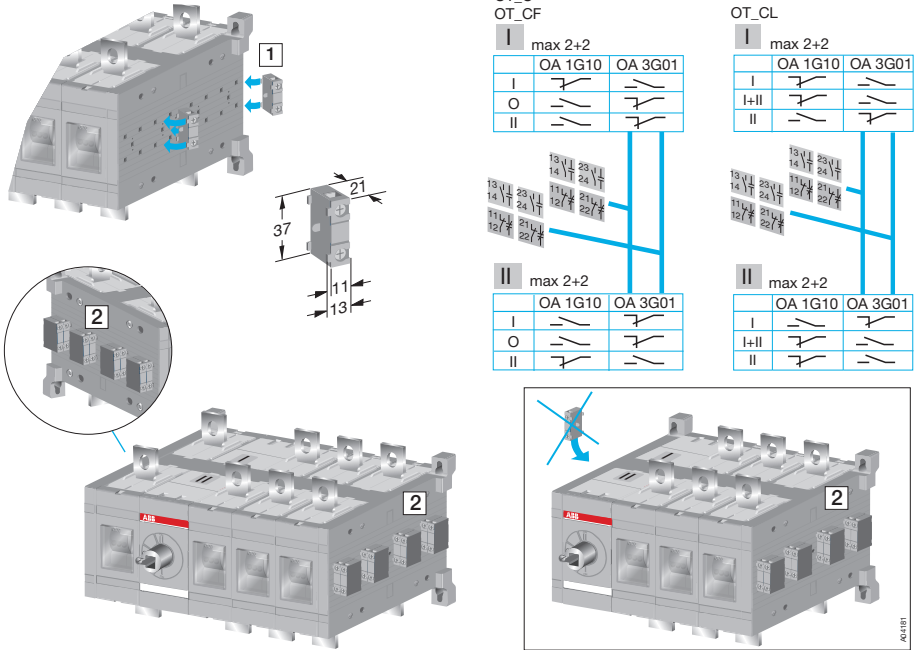
A0626B

OTZR_

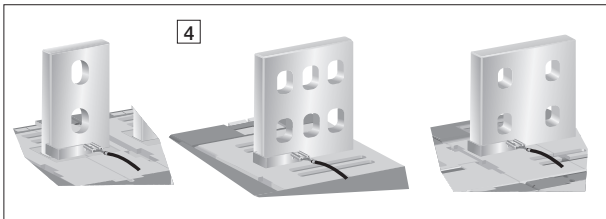
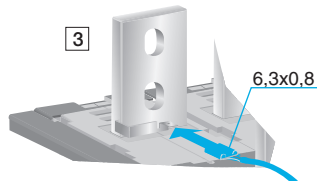
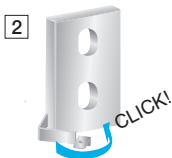
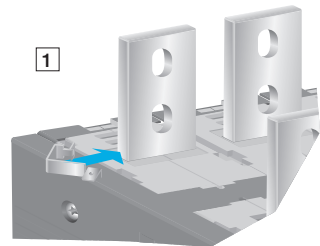
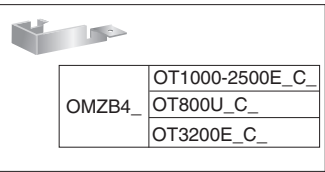
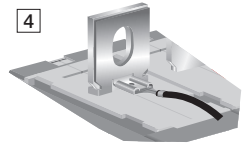
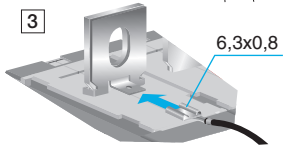
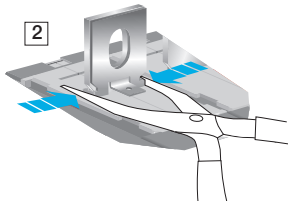
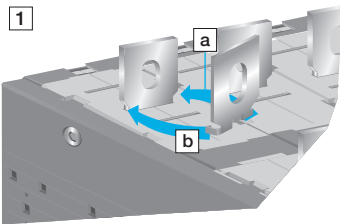
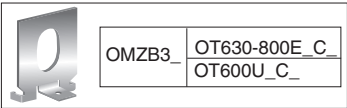
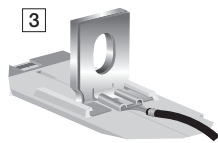
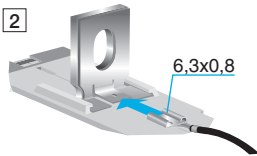
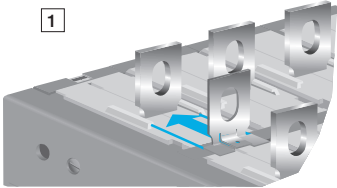
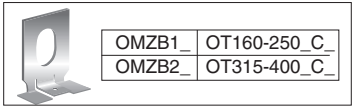
OT160-250_C_	OTZR1
OT315-400_C_	OTZR2
OT600-800_C_	OTZR3



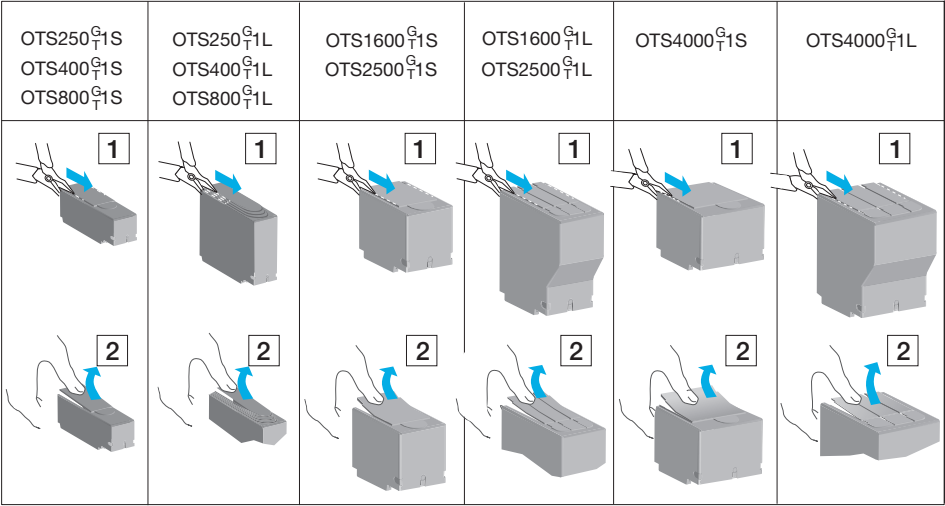
OA_



OMZB_

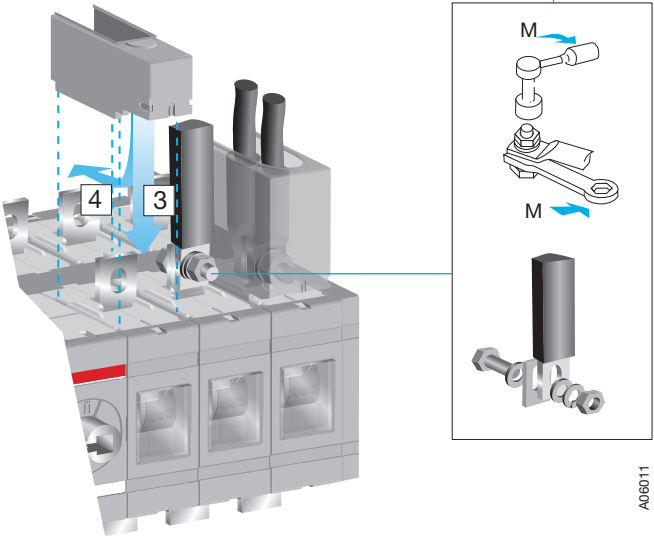


OTS_



OT160-250_C_
OT315-400_C_
OT600-800_C_

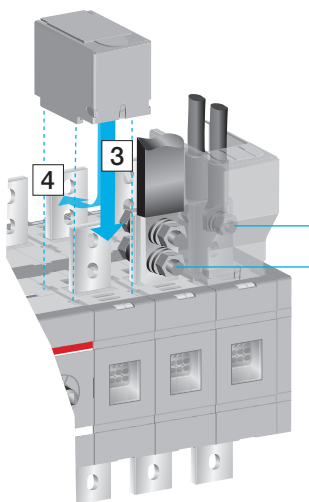
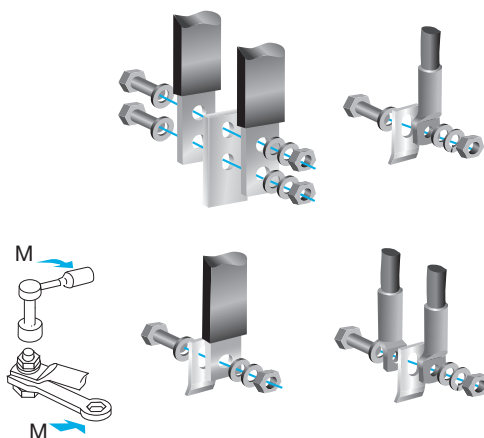
			M	M
OT160-250_C_	OTS250_	M8	15...22Nm	5/16DIA IN. 133-195LB.IN.
OT315-400_C_	OTS400_	M10	30...44Nm	266-390LB.IN.
OT600-800_C_	OTS800_	M12	50...75Nm	433-664LB.IN.



A06011

OTS_

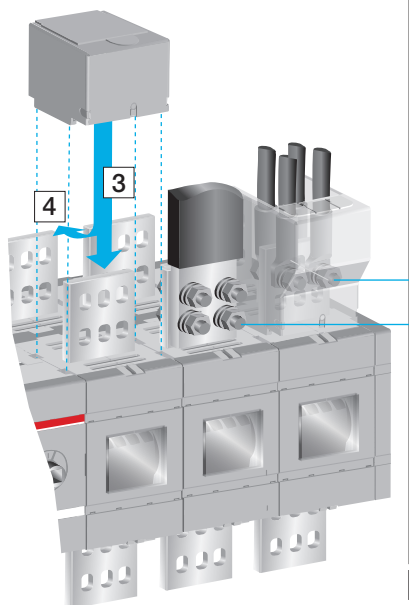
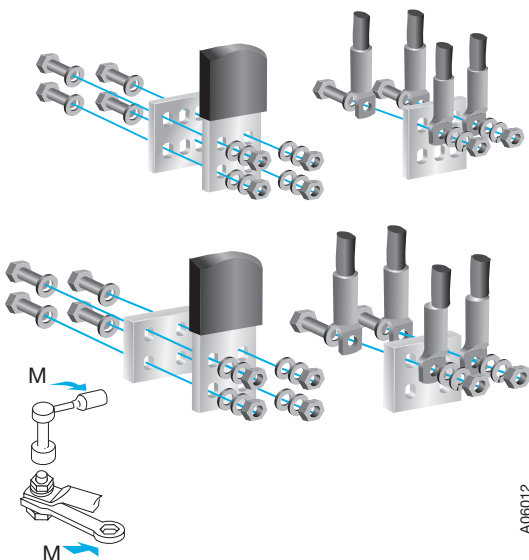
OT1000-1600_C_

OT1000-1600E_C_
OT800-1200U_C_

M12

50...75Nm

443-664 lb.in.

OT2000-2500_C_
OT3200_C_OT2000-2500E_C_
OT3200E_C_

M12

50...75Nm

443-664 lb.in.

A06012

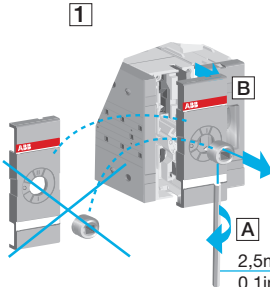
OTV_

OT160-250_C
OT160-250_CL
OT160-250_CF

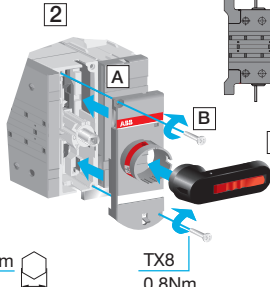


OTV250ECK
OTV250ECLK
OTV250ECFK

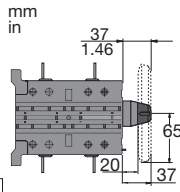
1



2



3



mm
in

37
1.46

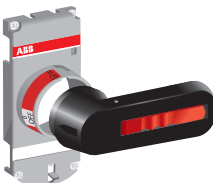
65
37

20

2.5mm
0.1in

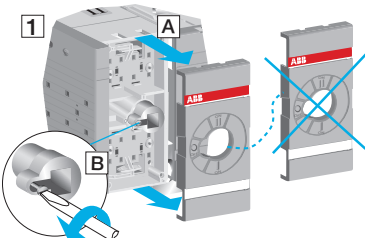
TX8
0,8Nm

OT315-800_C
OT315-800_CL
OT315-800_CF

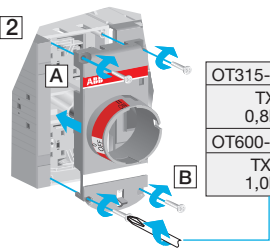


OTV400ECK
OTV800ECK
OTV400ECLK
OTV800ECLK
OTV400ECFK
OTV800ECFK

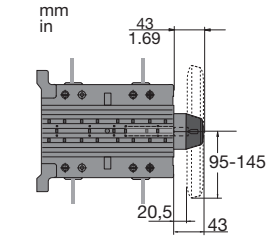
1



2



3



mm
in

43
1.69

95-145
43

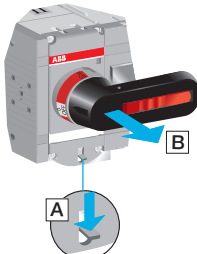
20,5

OT315-400_C
TX8
0,8Nm

OT600-800_C
TX20
1,0Nm

CLICK!

Remove

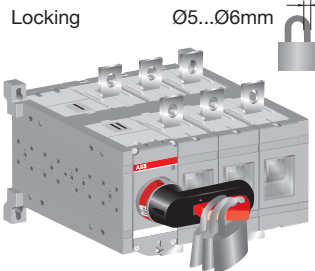


B

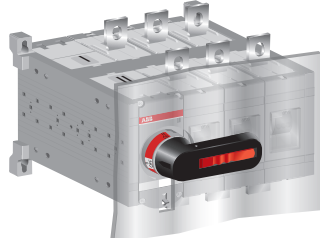
A

Locking

Ø5...Ø6mm



Note: Use protection against direct contact. For example:



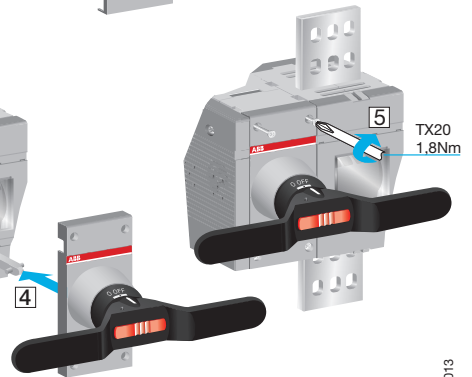
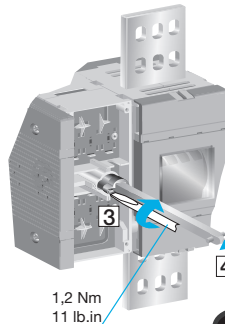
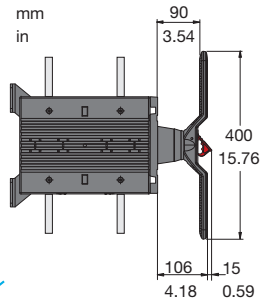
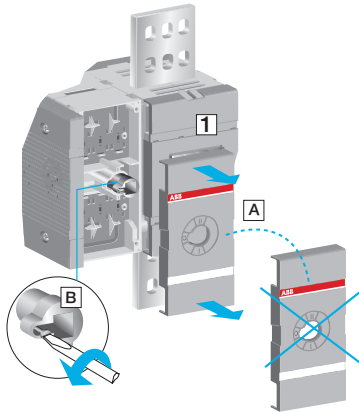
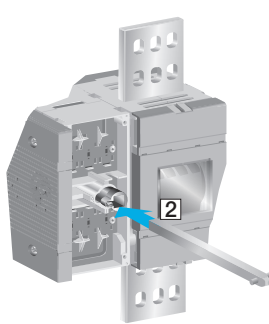
AC4188

OTV_

OT1000-2500_C
OT1000-2500_CL



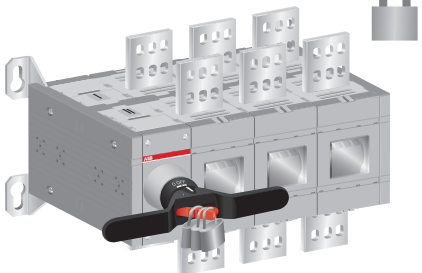
OT3200_C
OT3200_CL



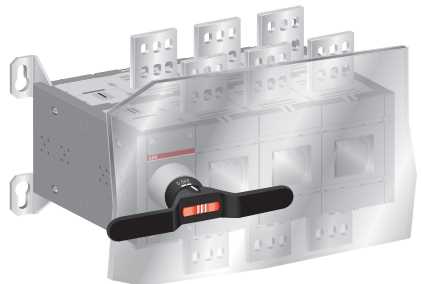
A06013

Locking

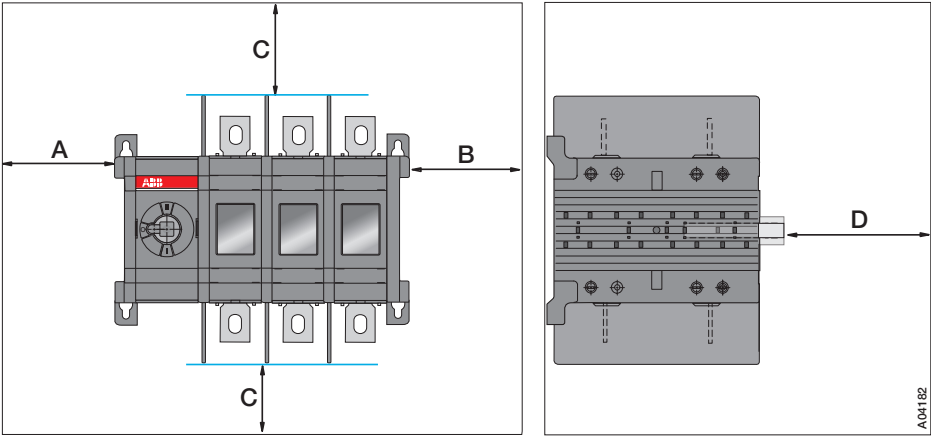
Ø5...Ø10mm



Note: Use protection against direct contact. For example:



Clearances per UL98



	Current	Height	Width	Depth
OT200U_C	200 A	406 mm/16 in	305 mm/12 in	203 mm/8 in
OT400U_C	400 A	610 mm/24 in	356 mm/14 in	254 mm/10 in
OT600U_C	600 A	610 mm/24 in	700 mm/28 in	400 mm/16 in
OT800-1200U_C	800/940 A	1220 mm/48 in	610 mm/24 in	400 mm/16 in

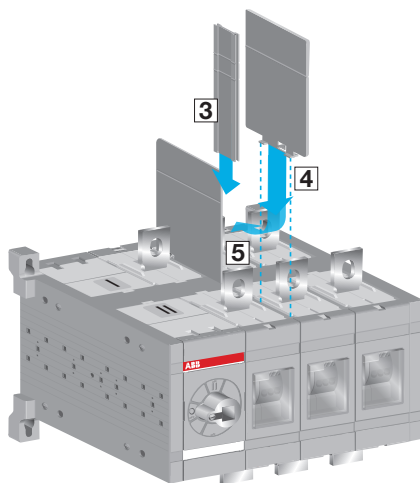
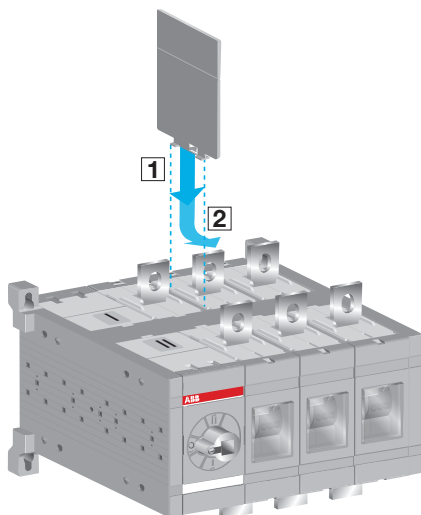
	A	B	D
OT200-1200U_C	0	13 mm/0,5 in	13 mm/0,5 in

OT200U_C			
Cable size		Cable size	
AWG	C	MCM	C
4-3	100 mm/4 in	250	200 mm/8 in
2	100 mm/4 in	300	250 mm/10 in
1	100 mm/4 in		
1/0	125 mm/5 in		
2/0	150 mm/6 in		
3/0-4/0	175 mm/7 in		

OT400U_C			
Cable size		Cable size	
AWG	C	MCM	C
2	100 mm/4 in	250	250 mm/8 in
1	100 mm/4 in	300	250 mm/10 in
1/0	125 mm/5 in	350	300 mm/12 in
2/0	150 mm/6 in		
3/0-4/0	175 mm/7 in		

OT600-1200U_C			
Cable size		Cable size	
AWG	C	MCM	C
2	100 mm/4 in	250	200 mm/8 in
1	100 mm/4 in	300	250 mm/10 in
1/0	125 mm/5 in	350	300 mm/12 in
2/0	150 mm/6 in	400	330 mm/13 in
3/0-4/0	175 mm/7 in	500	356 mm/14 in
		600	381 mm/15 in

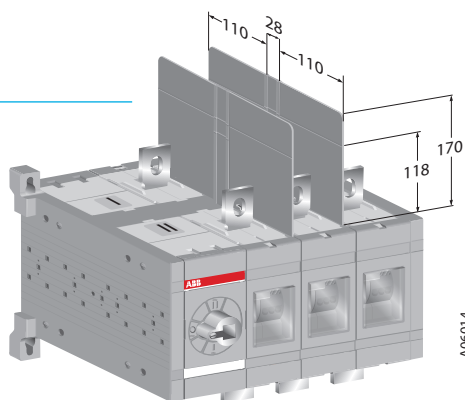
OTB_



Phase barrier type 68838 on:
OT600U_C
OT630-800E_C

Phase barriers 68838 or shrouds must be used to maintain a clearance of 1 inch on the manual change-over and transfer switch type OT600U_C, if lugs are wider than 39 mm/ 1.54 in.

The type for the package of 6 barriers is OTB800/6C.



A06014

Phase barrier type 68912 on:

OT800-1200U_C_

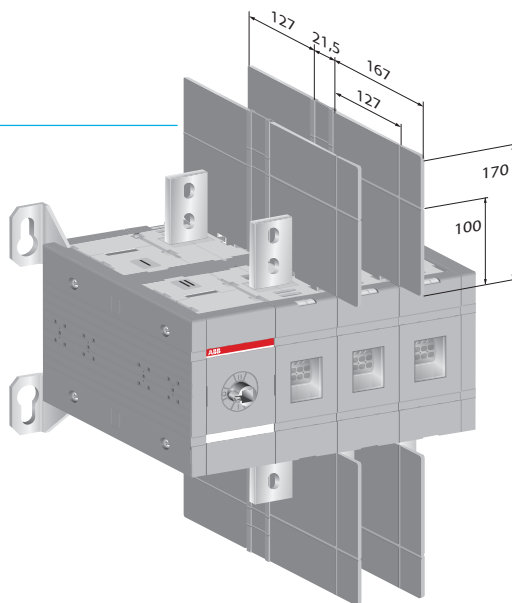
OT1000-1600E_C_

OT2000-2500E_C_

Phase barriers 68912 must be used on OT1000-2500E_C if the voltage is > 415 V.

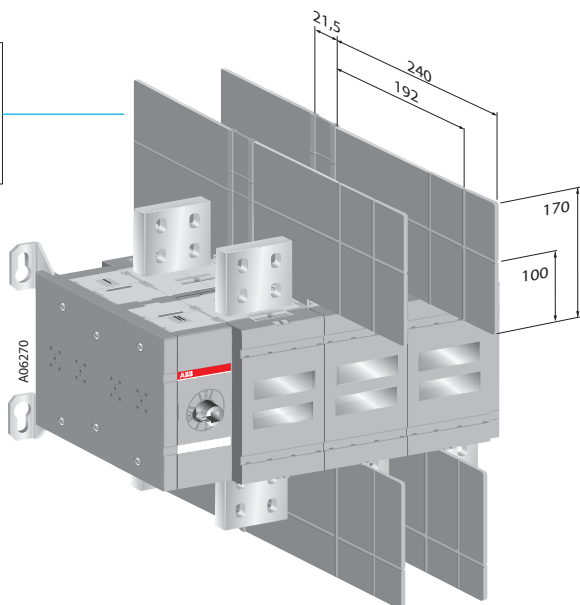
Phase barriers 68912 or shrouds must be used to maintain a clearance of 1 inch on the manual change-over and transfer switches types OT800U_C and OT1200U_C, if lugs are wider than 54 mm/2.13 in.

Type for package of 6 barriers is OTB1600/6C.



Phase barriers CXBY69470 must be used on OT3200E_C.

Type for package of 6 barriers is OTB4000/6C.



Notes

Notes

Notes

The technical data and dimensions are valid at the time of printing. We reserve the right to subsequent alterations.



BG	Внимание! Опасно напряжение! Да се монтира само от лице с електротехническа квалификация.
FR	Avertissement! Tension électrique dangereuse! Installation uniquement par des personnes qualifiées en électrotechnique.
MT	Twissija! Vultaġġ perikoluż! Għandu jiġi installat biss minn persuna b'kompetenza elettroteknika.
HR	Upozorenje! Opasan napon! Postavljači smije samo elektrotehnički stručnjak.
DE	Warnung! Gefährliche Spannung! Installation nur durch elektrotechnische Fachkraft.
PL	Ostrzeżenie! Niebezpieczne napięcie! Instalacji może dokonać wyłącznie osoba z fachową wiedzą w dziedzinie elektrotechniki.
CZ	Varování! Nebezpečné napětí! Montáž smí provádět výhradně elektrotechnik!
EL	Προειδοποίηση! Υψηλή τάση! Η εγκατάσταση πρέπει να γίνεται μόνο από εξειδικευμένους ηλεκροτεχνικούς.
PT	Aviso! Tensão perigosa! A instalação só deve ser realizada por um electricista especializado.
DA	Advarsel! Farlig elektrisk spænding! Installation må kun foretages af personer med elektroteknisk ekspertise.
HU	Figyelmeztetés! Veszélyes feszültség! Csak elektrotechnikai tapasztalattal rendelkező szakember helyezheti üzembe.
RO	Avvertizare! Tensiune periculoasă! Instalarea trebuie efectuată numai de către o persoană cu experiență în electrotehnică.
NL	Waarschuwing! Gevaarlijke spanning! Mag alleen geïnstalleerd worden door een deskundige elektrotechnicus.
IE	Rabhadh! Voltas guaiseach! Ba chóir do dhuine ag a bhfuil saineolas leictreicniúil, agus an té sin amháin, é seo a shuiteáil.
SK	Varovanie! Nebezpečné napätie! Montáž môže vykonávať iba skúsený elektrotechnik.
EN	Warning! Hazardous voltage! Installation by person with electrotechnical expertise only.
IT	Avvertenza! Tensione pericolosa! Fare installare solo da un elettricista qualificato.
SL	Opozorilo! Nevarna napetost! Vgradnjo lahko opravi le oseba z elektrotehničnim strokovnim znanjem.
ET	Hoiatus! Ohtlik pinge. Paigaldada võib ainult elektrotehnika-alane ekspert.
LV	Uzmanību! Bīstami - elektrība! Montāžas darbus drīkst veikt tikai personas, kurām ir atbilstošas elektrotehnikās zināšanas.
ES	¡Advertencia! ¡Tensión peligrosa! La instalación deberá ser realizada únicamente por electricistas especializados.
FI	Varoitus! Vaarallinen jännite! Asennuksen voi tehdä vain sähköalan ammattihenkilö.
LT	Dėmesio! Pavojinga įtampa! Dirbti leidžiama tik elektrotechniko patirties turintiems asmenims.
SE	Varning! Farlig spänning! Installation får endast utföras av en elektriker.
GN	警告！电压危险！只能由专业电工进行安装。
RU	Осторожно! Опасное напряжение! Монтаж должен выполняться только специалистом-электриком.

For more information please contact:

ABB Oy
Protection and Connection
P.O Box 622, FI-65101 Vaasa, Finland
new.abb.com/low-voltage

Power and productivity
for a better world™

