

—
INSTALLATION INSTRUCTION

Manual change-over and transfer switches

OT_C

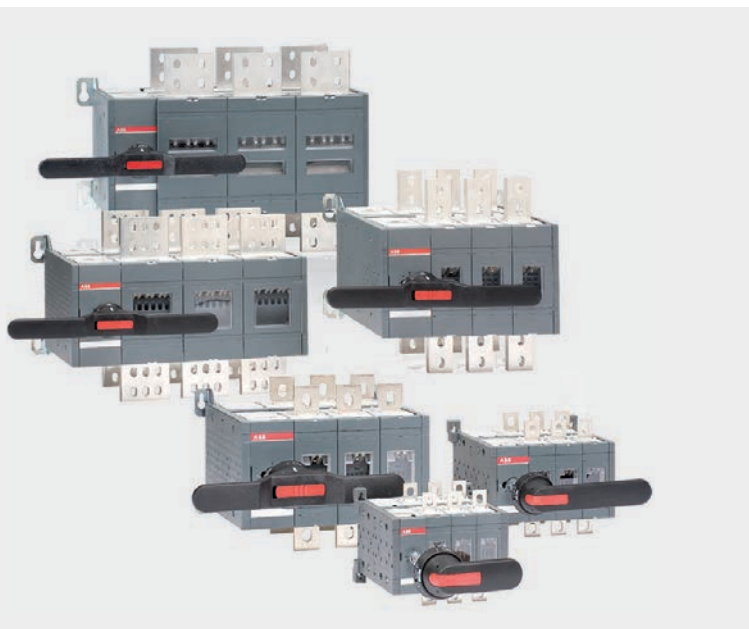
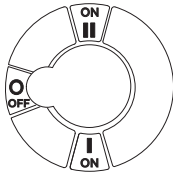


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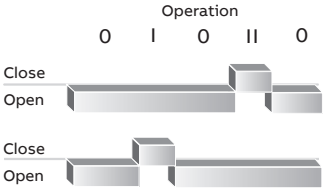
Operation

OT_100-3200_C

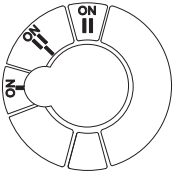


Switch II

Switch I

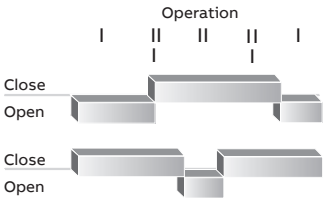


OT160-3200_CL

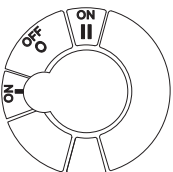


Switch II

Switch I

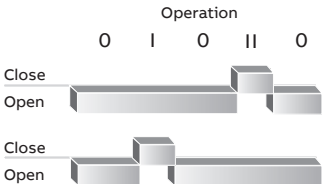


OT160-800_CF



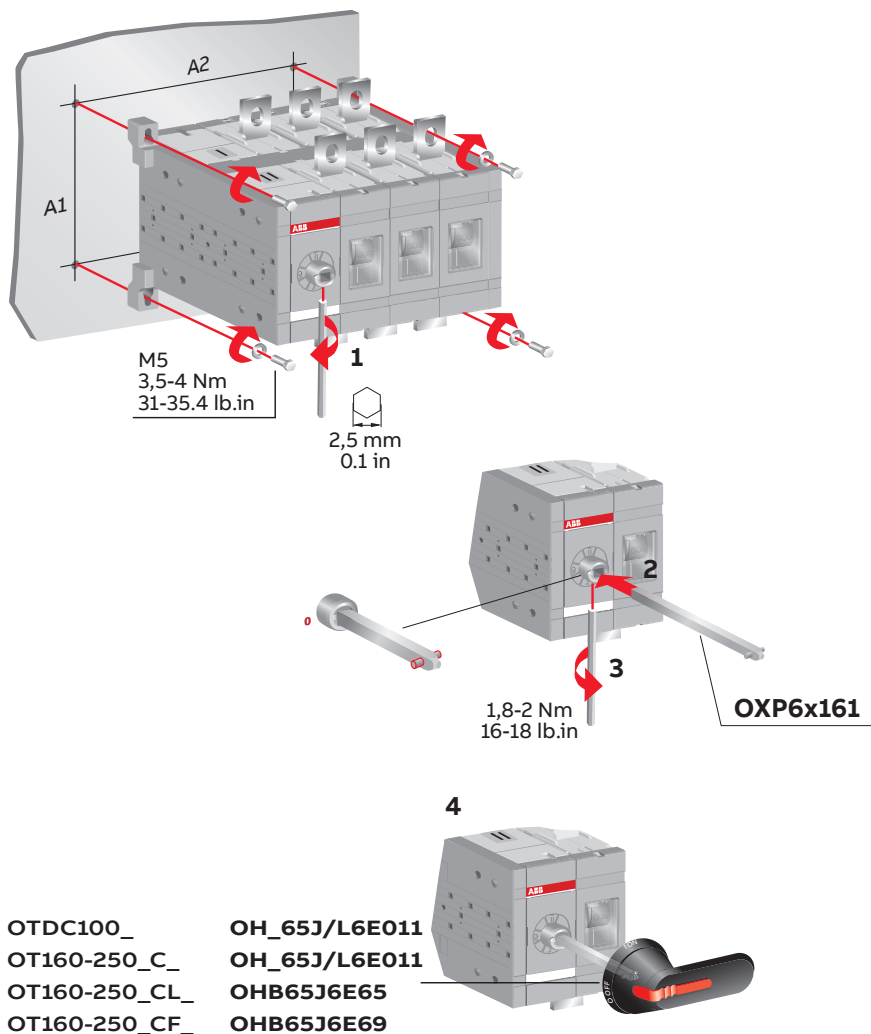
Switch II

Switch I



Mounting

OT_160-250E_C_

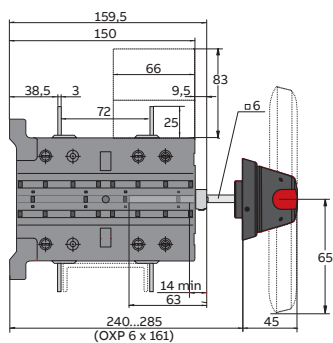
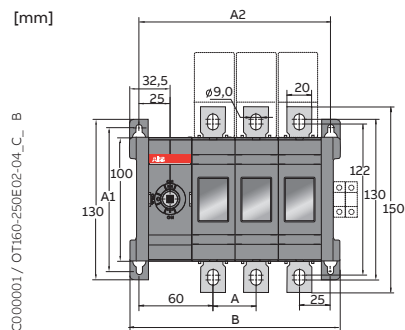


Dimension drawing

OT_160-250E_C_

OT160-250E02-04C_

[mm]

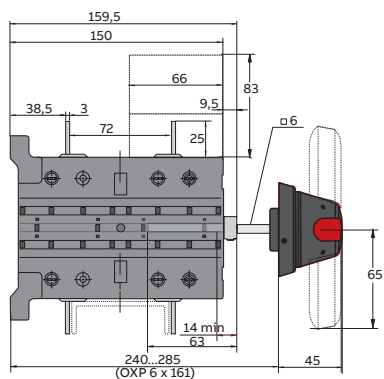
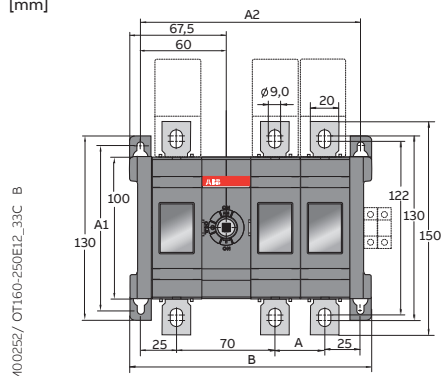


OT160-250_C_

	E02	E03	E04
A	35	35	35
A1	116	116	116
A2	120	155	190
B	135	170	205

OT160-250E12-33C_

[mm]



OT160-250_C_

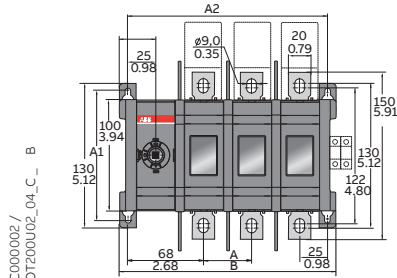
	E12	E13	E22	E23	E33
A	35	35	35	35	35
A1	116	116	116	116	116
A2	155	190	190	225	260
B	170	205	205	240	275

Dimension drawing

OT200U_, OT160-250E_WC

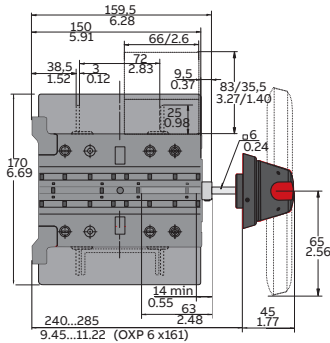
OT200U02-04C_ OT160-250E_WC_

[mm] / [in]



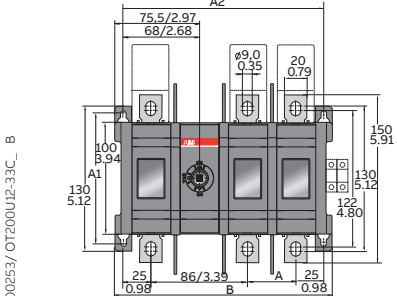
OT200_C_			
	U02	U03	U04
A	43 / 1.69	43 / 1.69	43 / 1.69
A1	116 / 4.57	116 / 4.57	116 / 4.57
A2	136 / 5.35	179 / 7.05	222 / 8.74
B	151 / 5.94	194 / 7.64	237 / 9.33

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

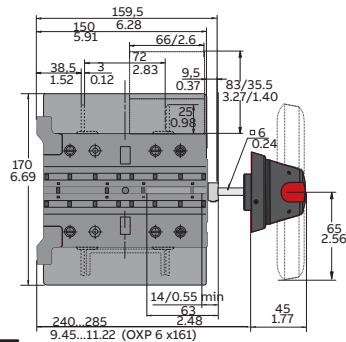


OT200U12-33C_

[mm] / [in]



OT200_C_					
	U12	U13	U22	U23	U33
A	43 / 1.69	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	116 / 4.57
A2	179 / 7.05	222 / 8.75	222 / 8.74	265 / 10.43	308 / 12.13
B	194 / 7.64	237 / 9.34	237 / 9.33	280 / 11.02	323 / 12.72

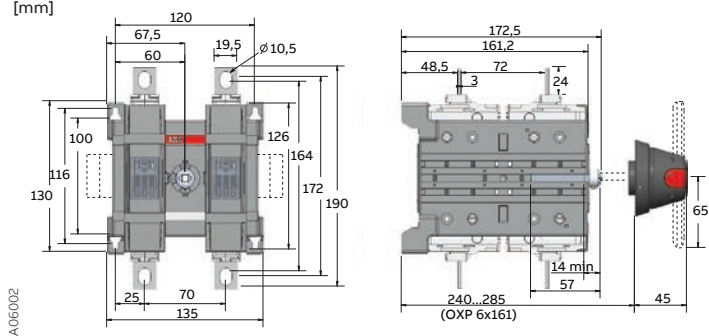


Dimension drawing

OTDC100_11C

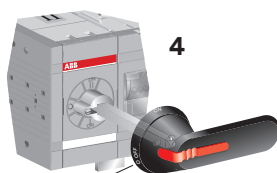
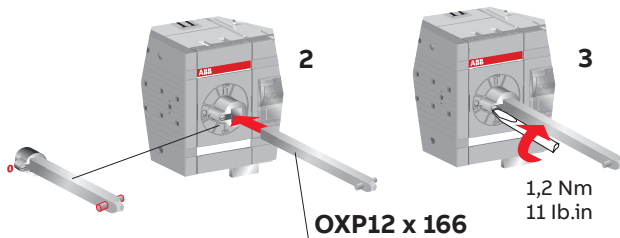
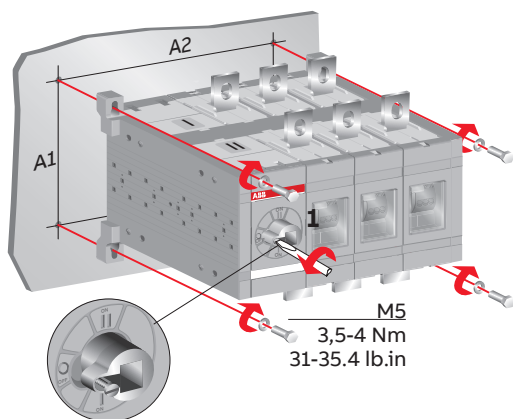
OTDC100_11C

[mm]



Mounting

OT315-400E_C_



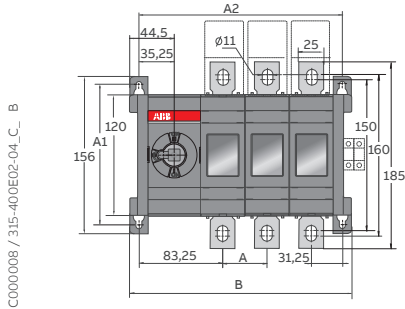
OT315-400_C_ OH_95J/L12E011
 OT315-400_CL_ OHB95J12E65
 OT315-400_CF_ OHB95J12E69

Dimension drawing

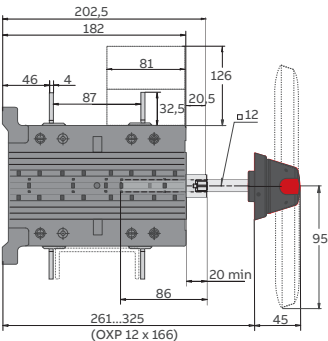
OT315-400E_C_

OT315-400E02-04C_

[mm]

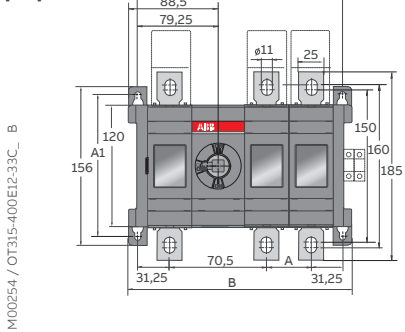


OT315-400_C_			
	E02	E03	E04
A	44	44	44
A1	142	142	142
A2	158,5	202,5	246,5
B	177	221	265

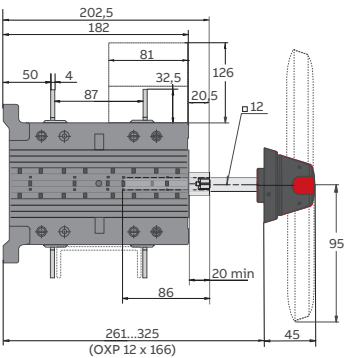


OT315-400E12-33C_

[mm]



OT315-400_C_					
	E12	E13	E22	E23	E33
A	44	44	44	44	44
A1	142	142	142	142	142
A2	202,5	246,5	246,5	290,5	334,5
B	221	265	265	309	253

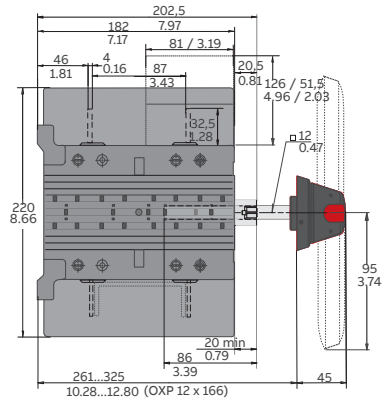
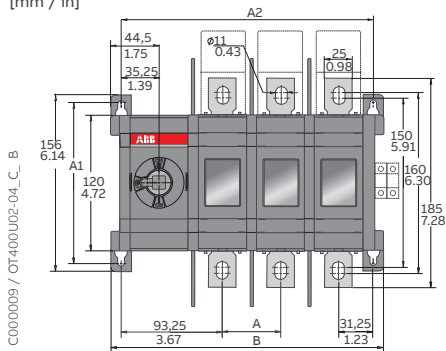


Dimension drawing

OT400U_C_

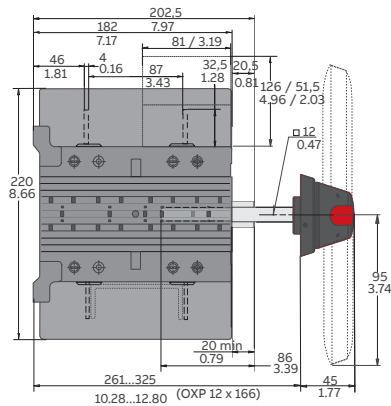
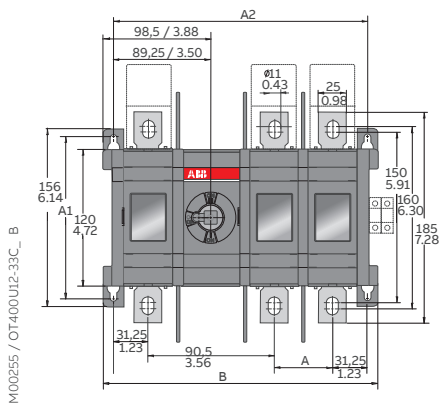
OT400U02-04C_

[mm / in]



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

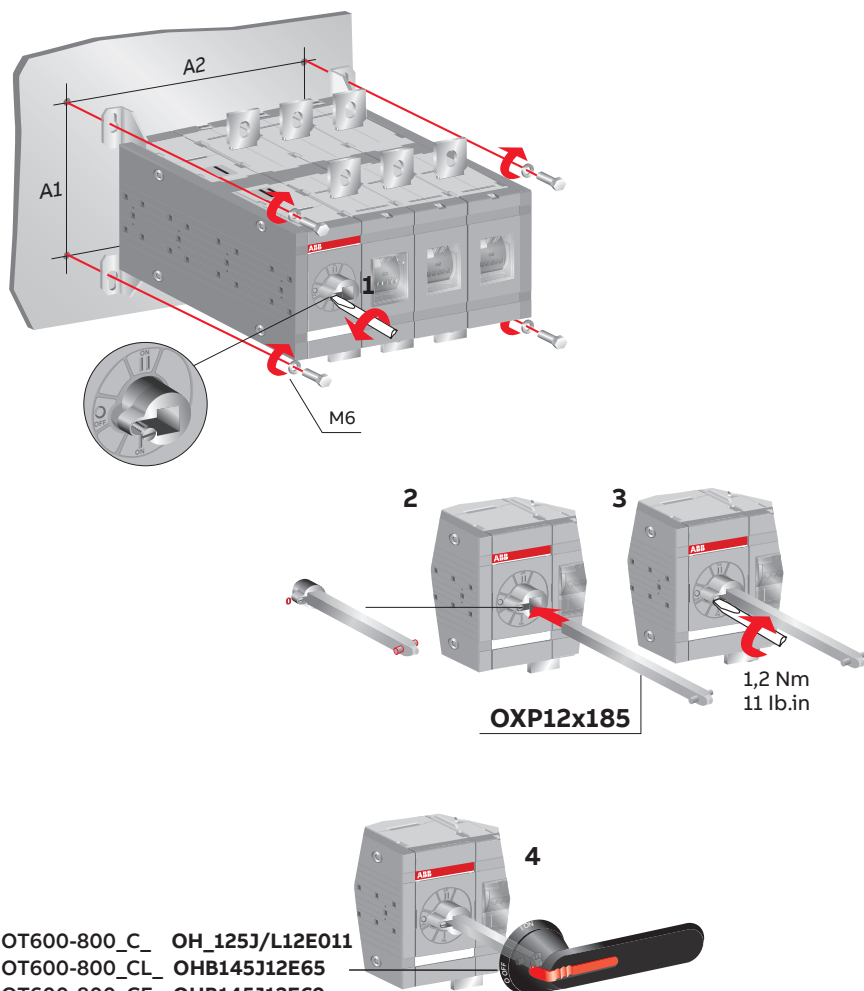
OT400U12-33C_



OT400_C_					
	U12	U13	U22	U23	U33
A	54 / 2.13	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	142 / 5.59
A2	232,5 / 9.15	286,5 / 11.28	286,5 / 11.28	340,5 / 13.41	394,5 / 15.53
B	251 / 9.88	305 / 12.01	305 / 12.01	359 / 14.13	413 / 16.26

Mounting

OT630-800E_C_

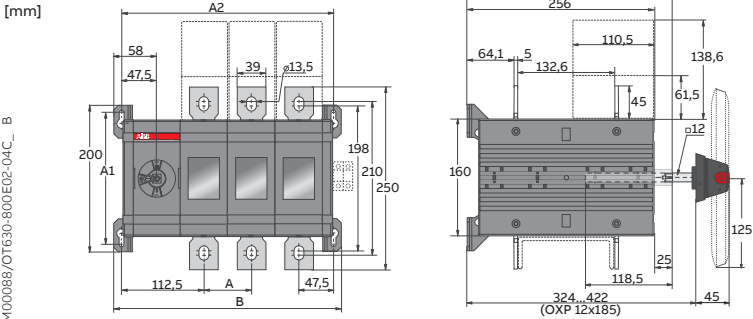


Dimension drawing

OT630-800E_C_

OT630-800E02-04C_

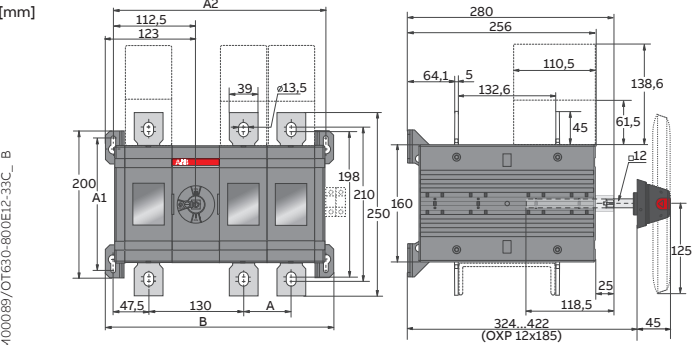
[mm]



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

OT630-800E12-33C_

[mm]



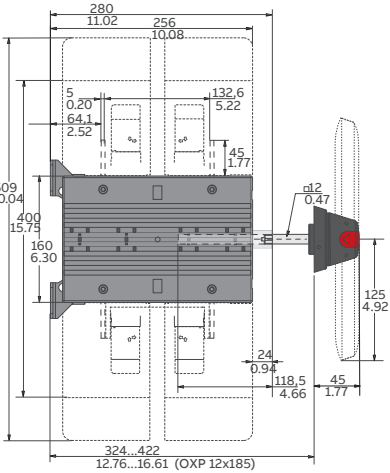
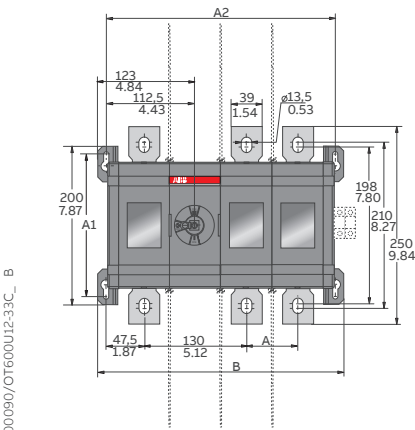
OT630-800_C_					
	E12	E13	E22	E23	E33
A	65	65	65	65	65
A1	180	180	180	180	180
A2	290	355	355	420	485
B	311	376	376	441	506

Dimension drawing

OT600U_C_

OT600U12-33C_

[mm] / [in]



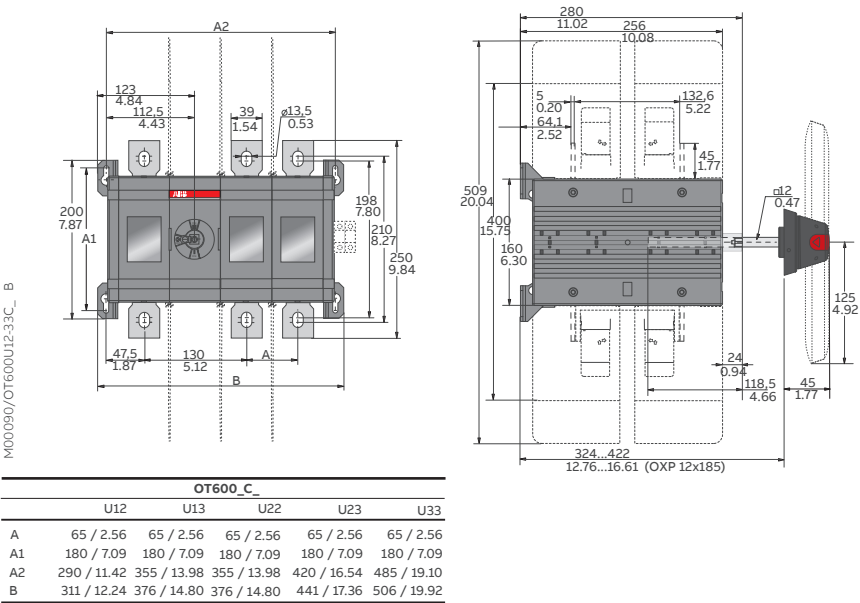
OT600_C_					
	U12	U13	U22	U23	U33
A	65 / 2.56	65 / 2.56	65 / 2.56	65 / 2.56	65 / 2.56
A1	180 / 7.09	180 / 7.09	180 / 7.09	180 / 7.09	180 / 7.09
A2	290 / 11.42	355 / 13.98	355 / 13.98	420 / 16.54	485 / 19.10
B	311 / 12.24	376 / 14.80	376 / 14.80	441 / 17.36	506 / 19.92

Dimension drawing

OT600U_C_

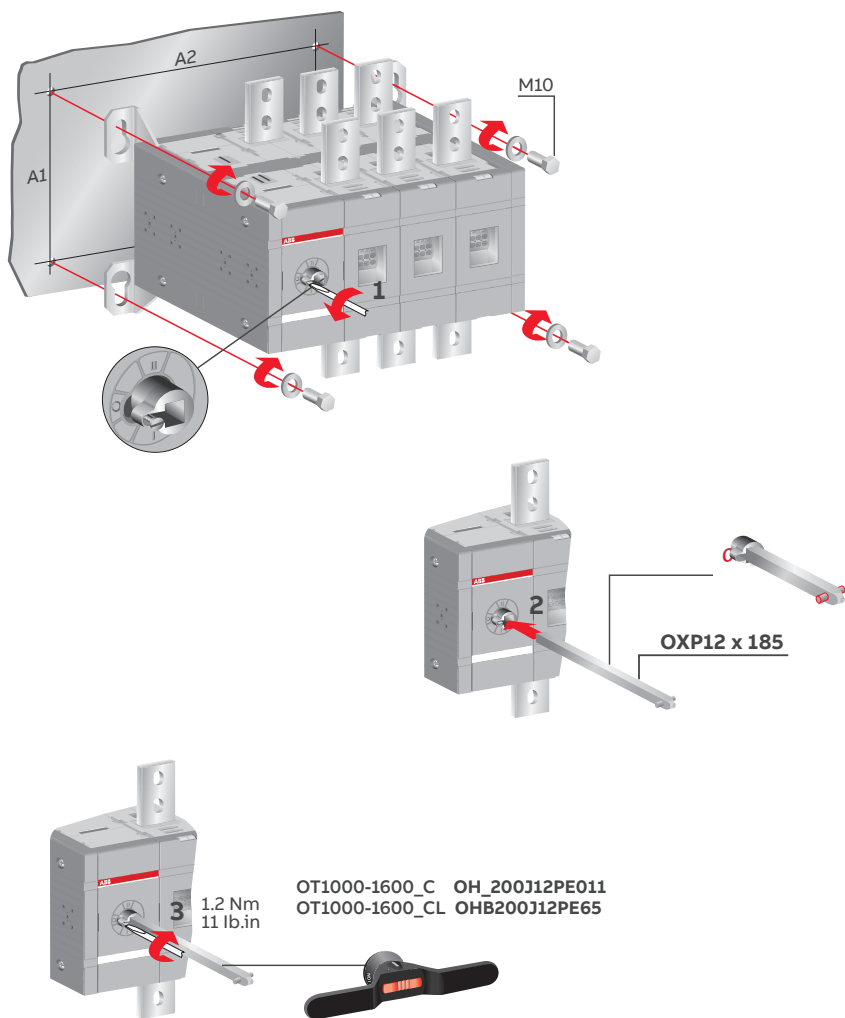
OT600U12-33C_

[mm] / [in]



Mounting

OT1000-1600E_C_

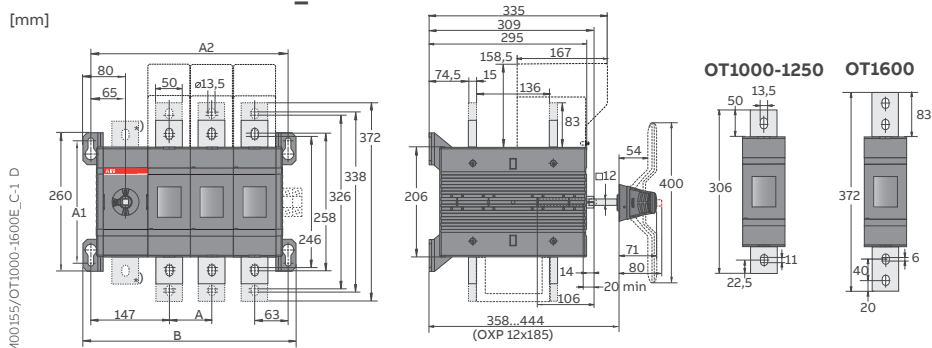


Dimension drawing

OT1000-1600E_C_

OT1000-1600E02-04C_

[mm]

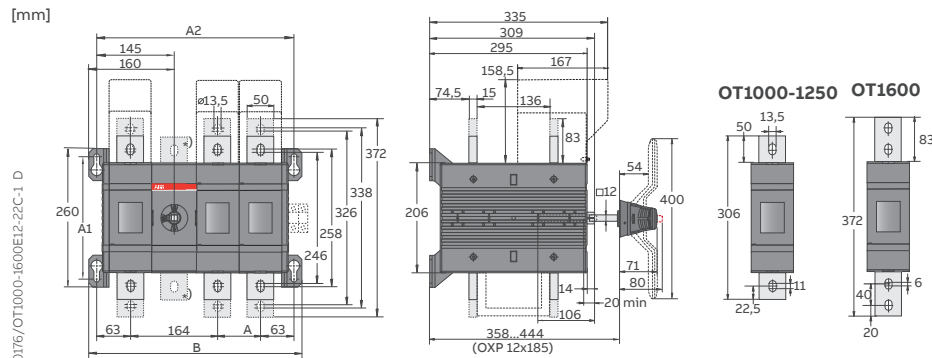


OT1000-1600_C_			
	E02	E03	E04
A	80	80	80
A1	230	230	230
A2	290	370	450
B	320	400	480

*) N3 types

OT1000-1600E12-22C_

[mm]



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

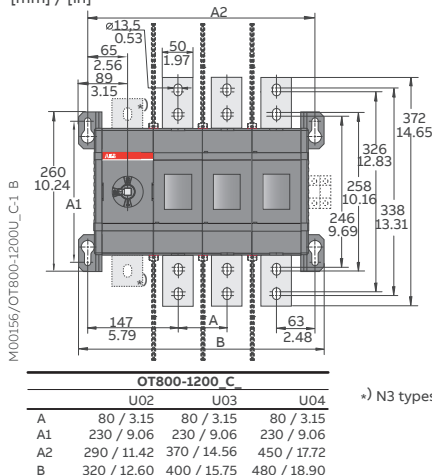
*) N3 types

Dimension drawing

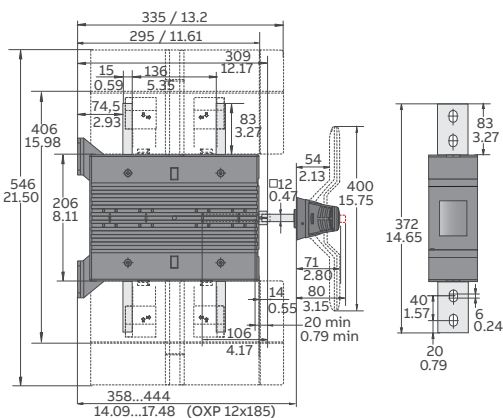
OT800-1200U_C_

OT800-1200U02-04C_

[mm] / [in]

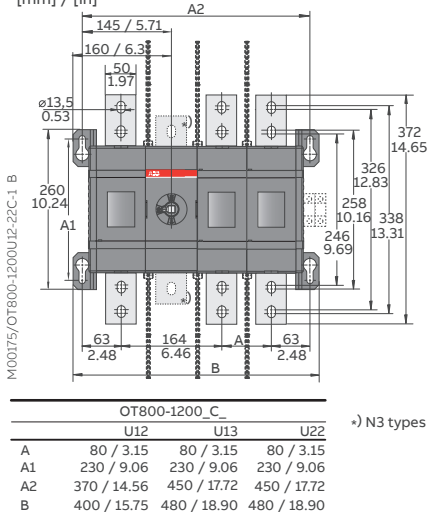


→ N3 types

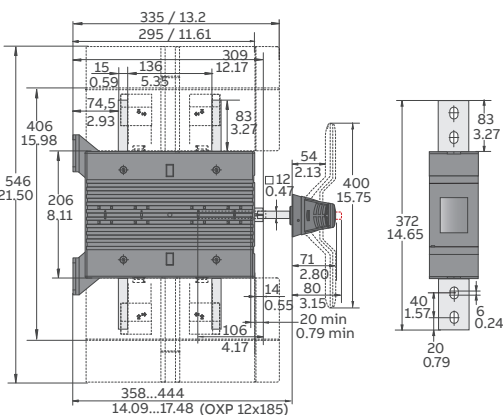


OT800-1200U12-22C_

[mm] / [in]



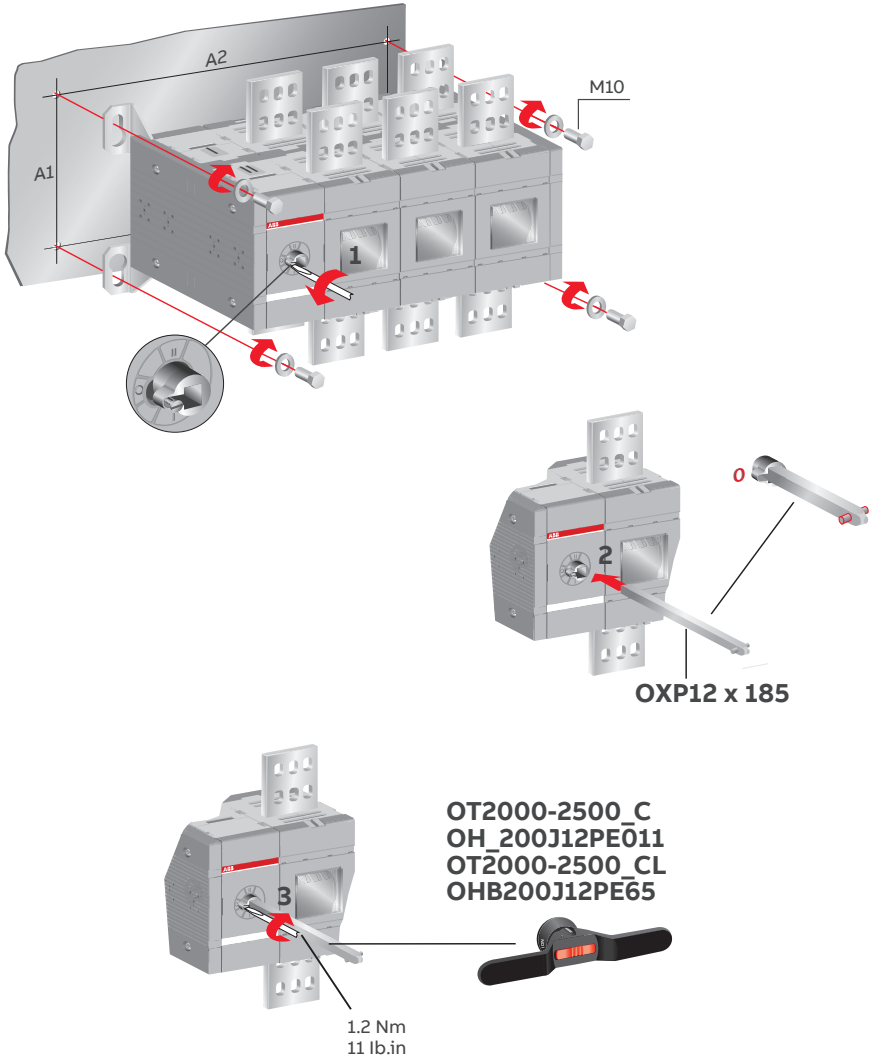
→ N3 types



Mounting

OT2000-2500E_C_

A06007

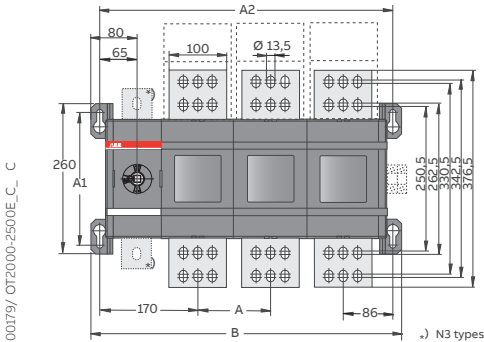


Dimension drawing

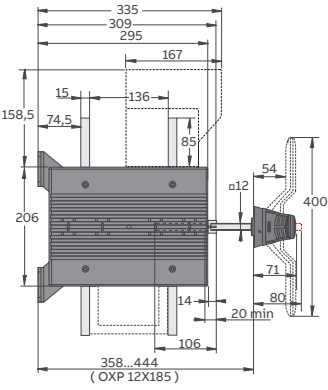
OT2000-2500E_C_

OT2000-2500E02-04C_

[mm]

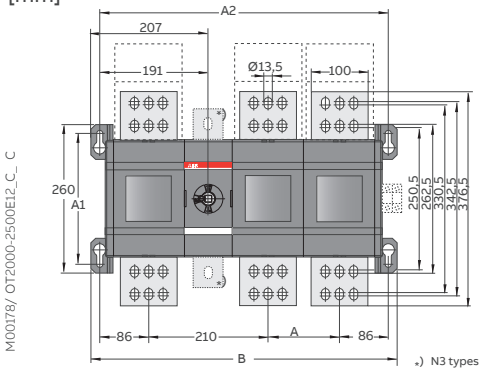


OT2000-2500_C_			
	E02	E03	E04
A	126	126	126
A1	230	230	230
A2	362	508	634
B	412	538	664

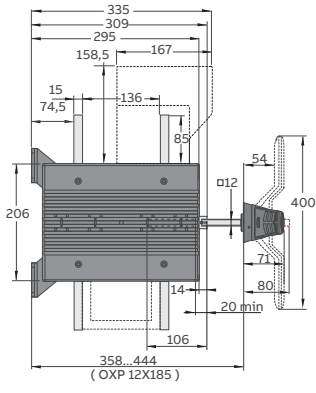


OT2000-2500E12-22C_

[mm]

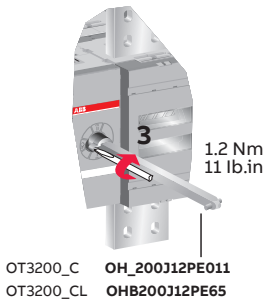
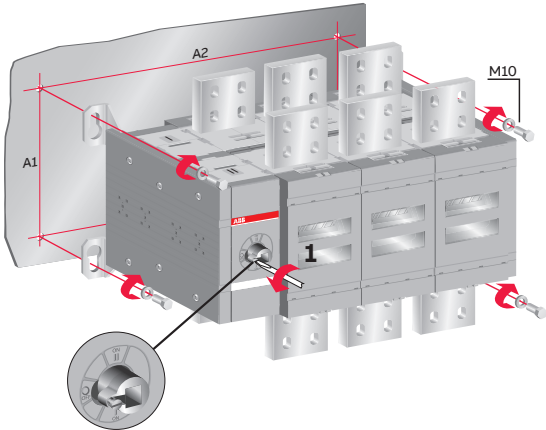


OT2000-2500_C_			
	E12	E13	E22
A	126	126	126
A1	230	230	230
A2	508	634	634
B	538	664	664

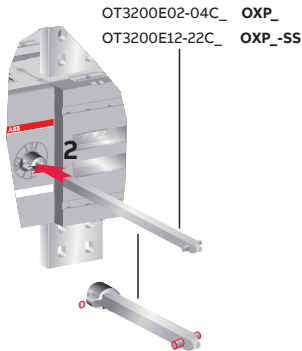


Mounting

OT3200E_C_



OT3200_C_			
	E02	E03	E04
A	420	560	700
B	450	590	730

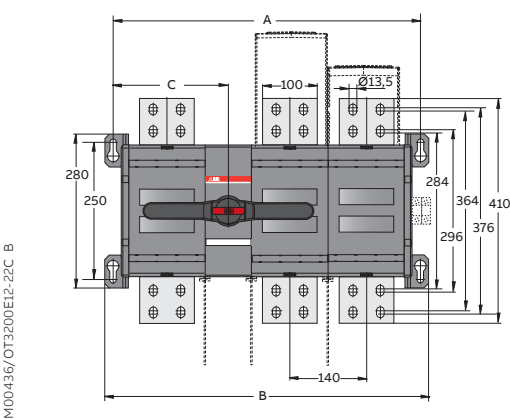


Dimension drawing

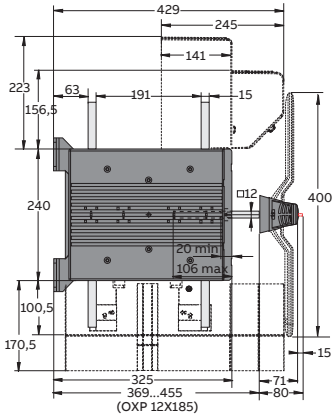
OT3200E_C_

OT3200E12-22C_

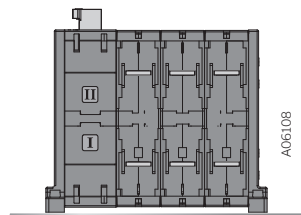
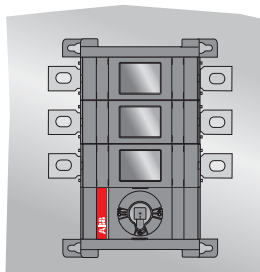
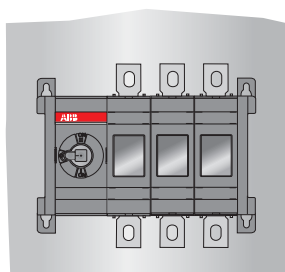
[mm]



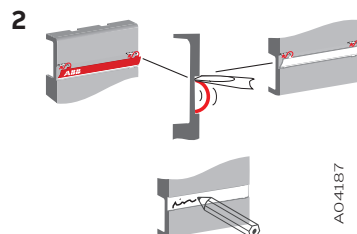
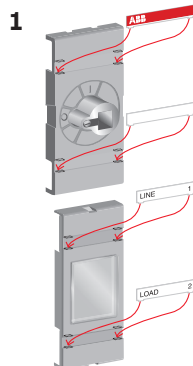
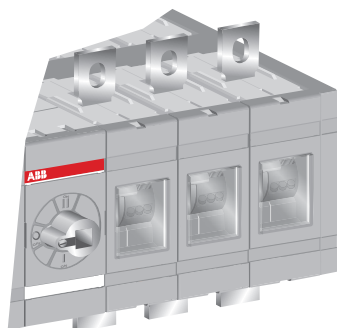
OT3200_C_			
	E12	E13	E22
A	560	700	700
B	590	730	730
C	210	210	350



Mounting positions



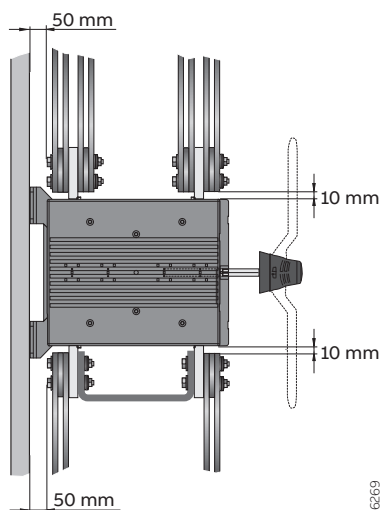
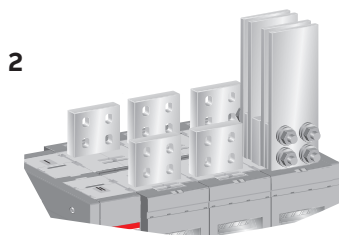
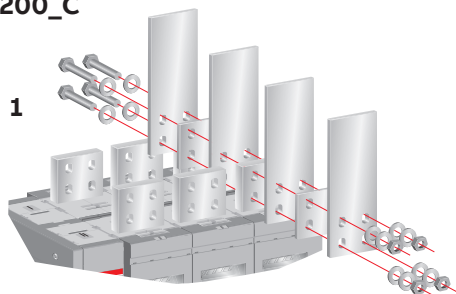
Label



AO4187

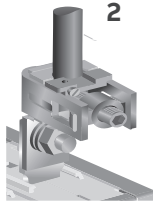
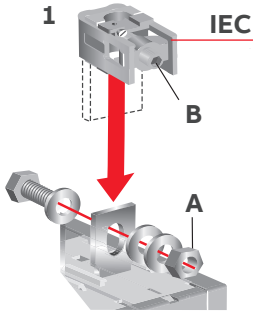
Connections

OT3200_C



Terminal clamp sets

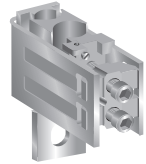
OZX_
IEC



IEC

OT2000-2500E_C_
OT3200E_C_

OZXB3
OZXB4
OZXB5
OZXB6
OZXB7L



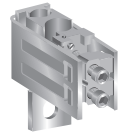
OT1000-1600E_C_

OZXB3
OZXB4
OZXB5
OZXB6*
OZXB7L



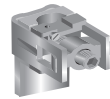
OT630-800E_C_

OZXB3
OZXB4
OZXB5
OZXB6*
OZXB7L



OT315-400E_C_

OZXB2L
OZXB3
OZXB7
OZXB7L
OZXB8
OZXB9

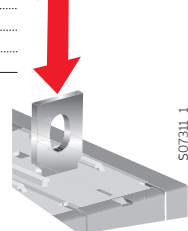


OT160-250E_C_

OZXB1L
OZXB2
OZXB2L
OZXB8
OZXB9



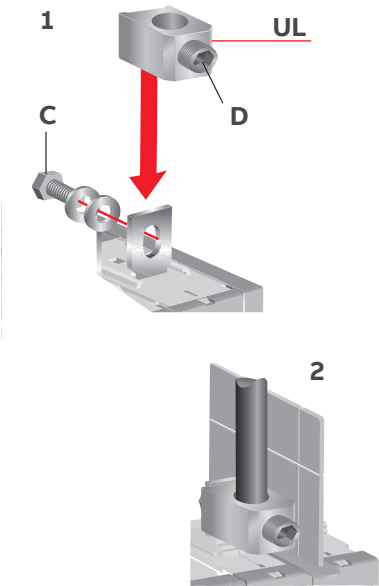
* max. 1 pcs/side



S07311_1

Terminal clamp sets

OZX_
UL



UL

OT800-1200U_C_	
OZXA-1200_	
C	D
443 lb.in/50.1 Nm	500 lb.in/56.5 Nm



OT600U_C_	
OZXA-800_	
C	D
480 lb.in/54.2 Nm	500 lb.in/56.5 Nm



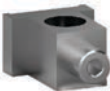
OT400U_C_	
OZXA-400_	
C	D
228 lb.in/25.8 Nm	375 lb.in/42.4 Nm



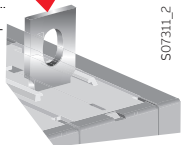
OT200U_C_	
OZXA-200_	
C	D
132 lb.in/14.9 Nm	200 lb.in/22.6 Nm



OT100U_C_	
OZXA-100_	
C	D
124 lb.in/14 Nm	AWG lb.in/Nm
	14-10 35/4
	8 40/4.5
	6-4 45/5.1
	3-2/0 50/5.6



OT100U_C_	
OZXA-24	
C	D
132 lb.in/14.9 Nm	AWG lb.in/Nm
	14-10 35/4
	8 40/4.5
	6-4 45/5.1
	3-2/0 50/5.6



507311_2

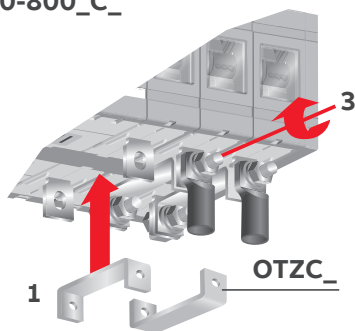
Bridging bars

OTZC_

OT_100-250_C_

OT315-400_C_

OT600-800_C_



OT_100-250_C_

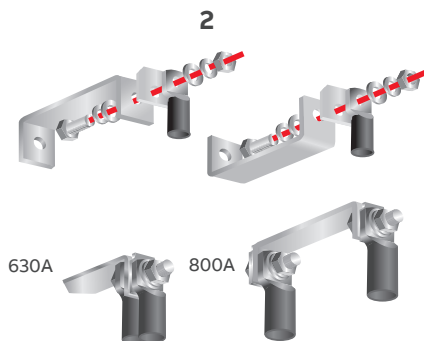
OT315-400_C_

OT600-800_C_

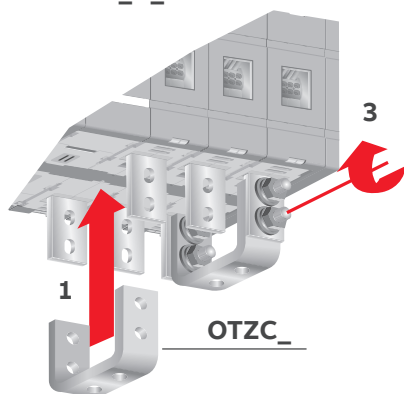
OTZC13, OTZC14

OTZC23, OTZC24

OTZC33, OTZC34



OT1000-1600_C_



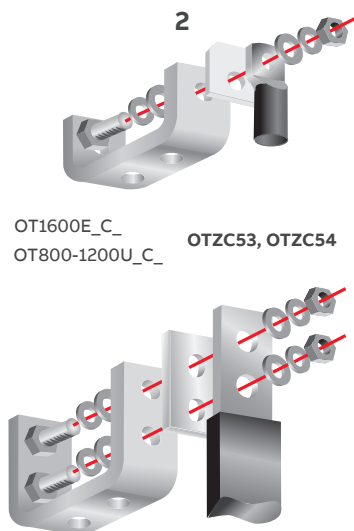
OT1000-1250E_C_

OTZC43, OTZC44

OT1600E_C_

OT800-1200U_C_

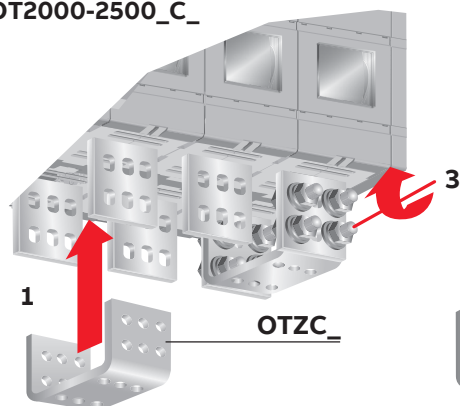
OTZC53, OTZC54



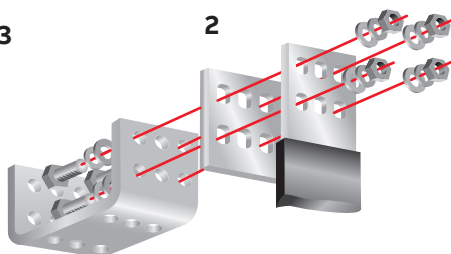
Bridging bars

OTZC_

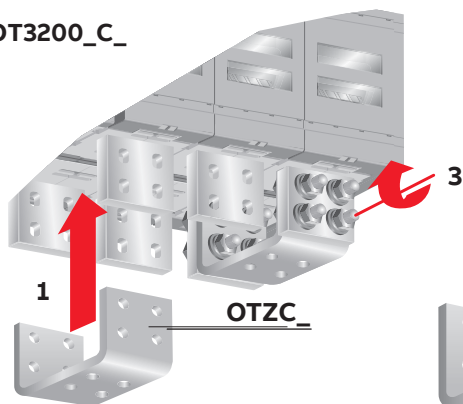
OT2000-2500_C_



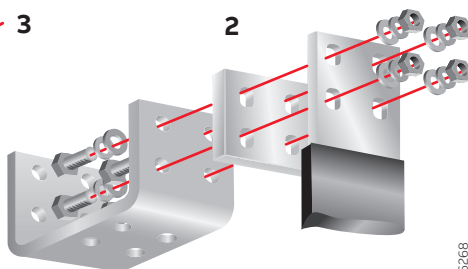
OT2000-2500E_C_ OTZC63, OTZC64



OT3200_C_



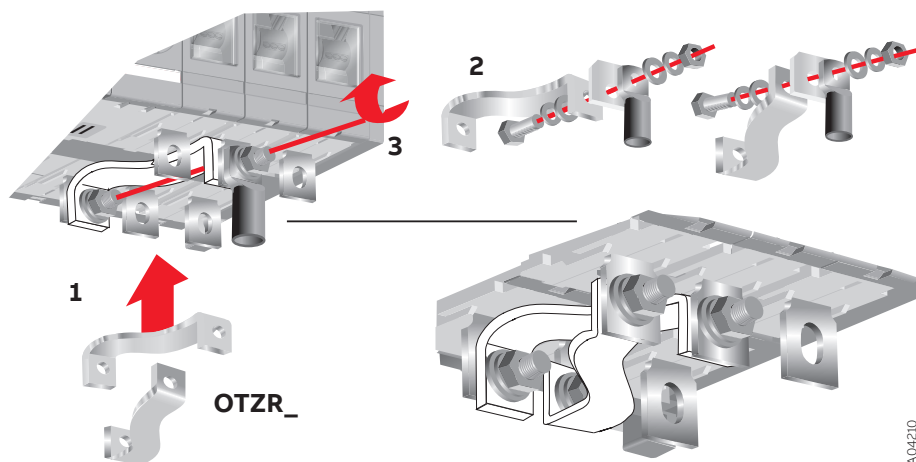
OT3200E_C_ OTZC73, OTZC74



Reversing bars

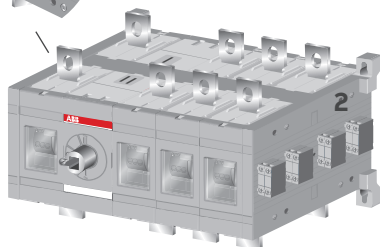
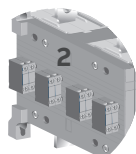
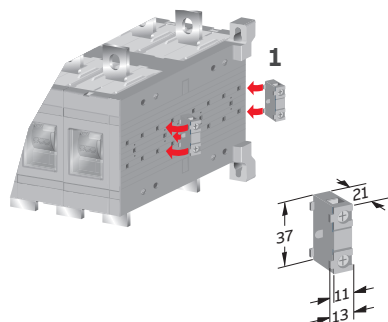
OTZR_

OT_100-250_C_ OTZR1
OT315-400_C_ OTZR2
OT600-800_C_ OTZR3

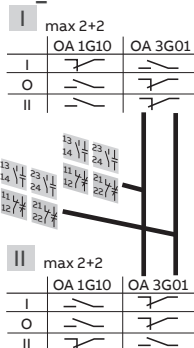


Auxiliary contacts

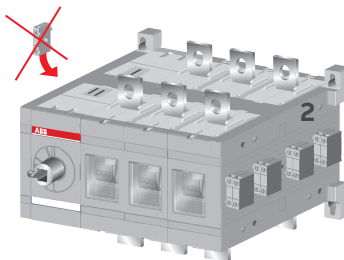
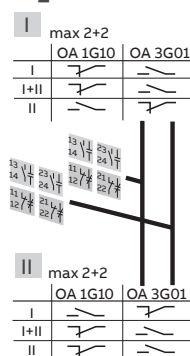
OA_



OT_C
OT_CF



OT_CL



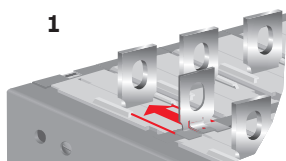
A04181

Voltage sensing connectors

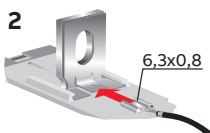
OMZB_



OMZB1_ OT160-250_C_
OMZB2_ OT315-400_C_

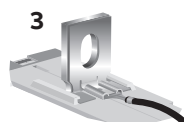


1



2

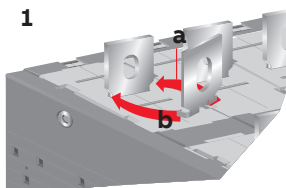
6,3x0,8



3



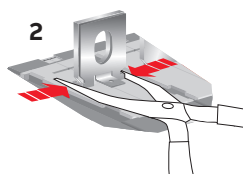
OMZB3_ OT630-800E_C_
OT600U_C_



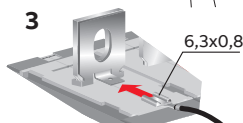
1

a

b

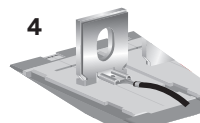


2



3

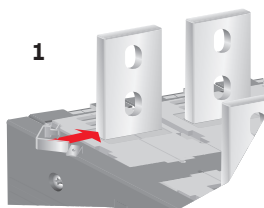
6,3x0,8



4



OT1000-2500E_C_
OMZB4_ OT800U_C_
OT3200E_C_

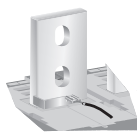


1

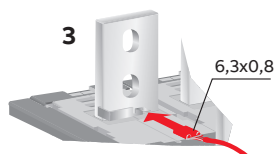
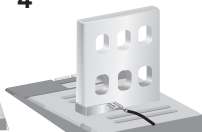


2

CLICK!



4



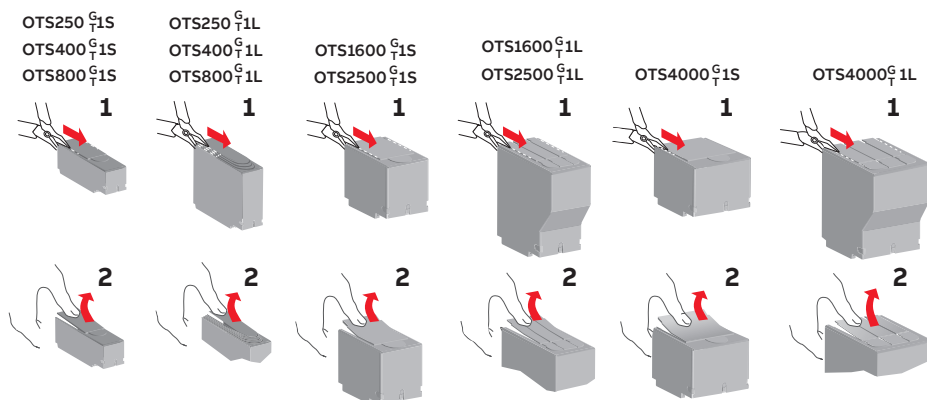
3

6,3x0,8



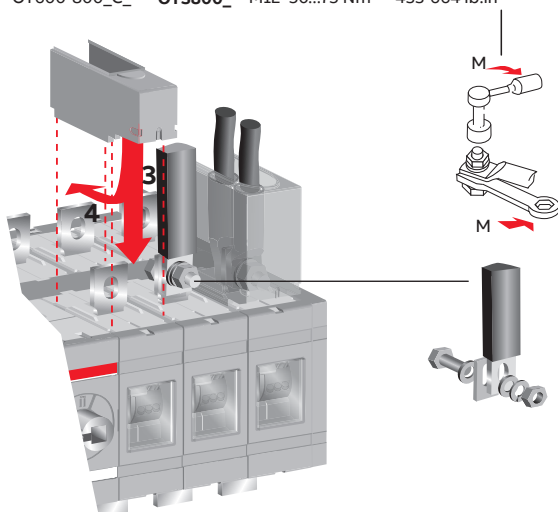
Terminal shrouds

OTS_



OT_100-250_C_
OT315-400_C_
OT600-800_C_

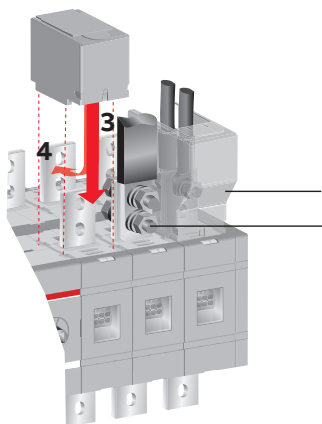
OT_100-250_C_	OTS250_	M8	15...22 Nm	M	5/16DIA in 133-195 lb.in
OT315-400_C_	OTS400_	M10	30...44 Nm	M	266-390 lb.in
OT600-800_C_	OTS800_	M12	50...75 Nm		433-664 lb.in



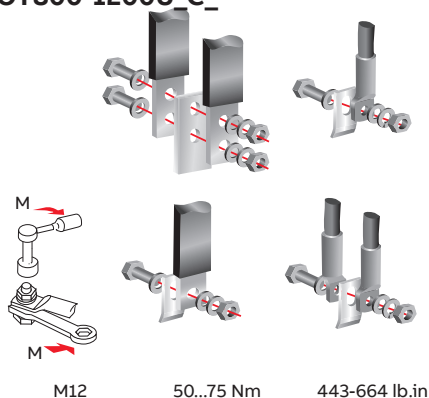
Terminal shrouds

OTS_

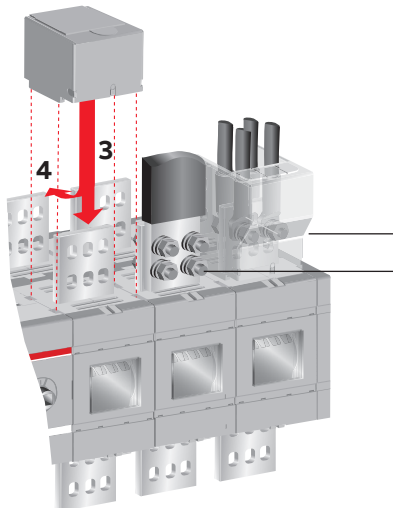
OT1000-1600_C_



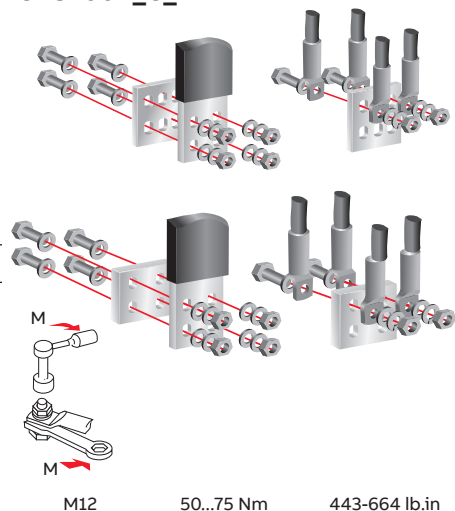
OT1000-1600E_C_
OT800-1200U C_



OT2000-2500_C_
OT3200_C_



OT2000-2500E_C_
OT3200E_C_



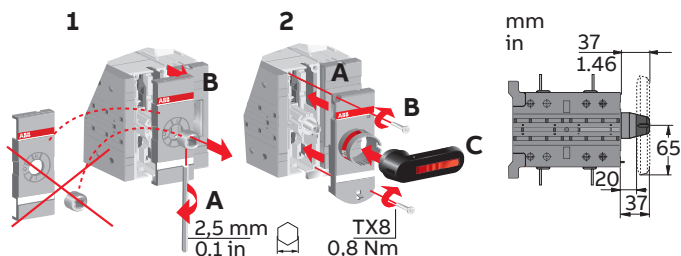
Handles, direct mounting

OTV_

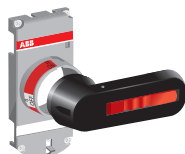
OT_100-250_C
OT160-250_CL
OT160-250_CF



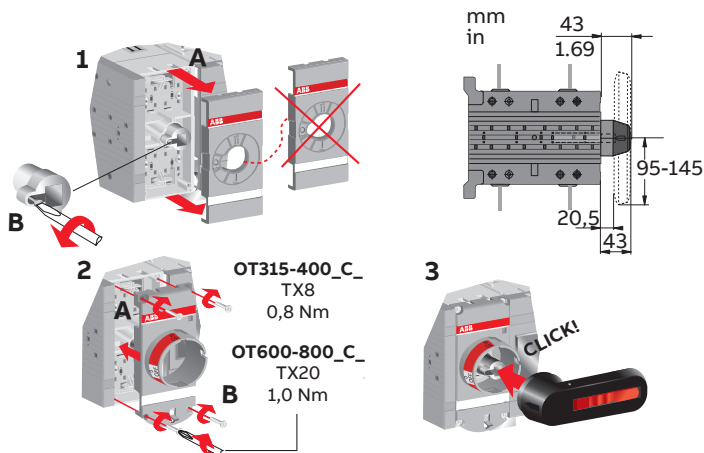
OTV250ECK
OTV250ECLK
OTV250ECFK



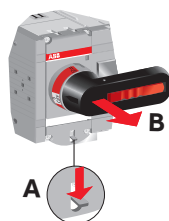
OT315-800_C
OT315-800_CL
OT315-800_CF



OTV400ECK
OTV800ECK
OTV400ECLK
OTV800ECLK
OTV400ECFK
OTV800ECFK

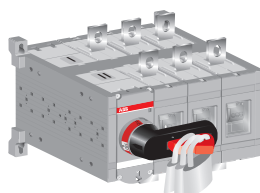


Remove

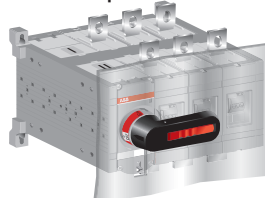


Locking

Ø5...6 mm



Note: Use protection against direct contact. For example:

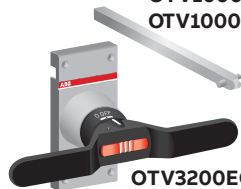


Handles, direct mounting

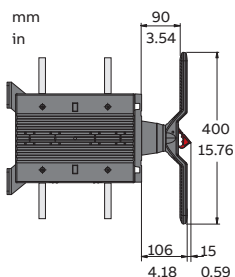
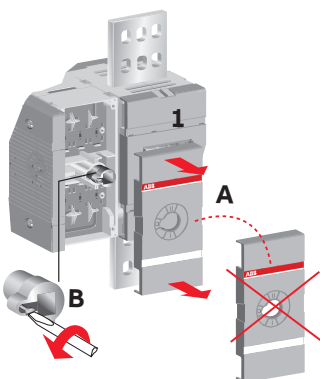
OTV_

OT1000-2500_C
OT1000-2500_CL

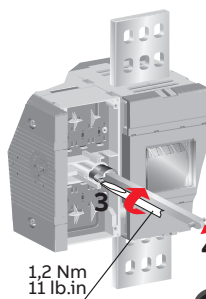
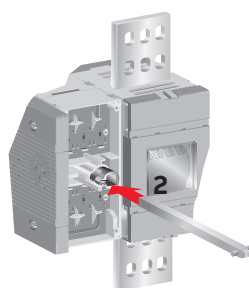
OTV1000ECK
OTV1000ECLK



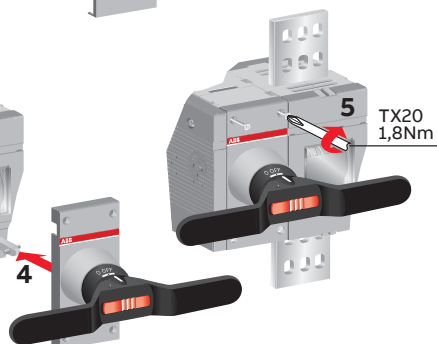
OTV3200ECK
OTV3200ECLK



OT3200_C
OT3200_CL



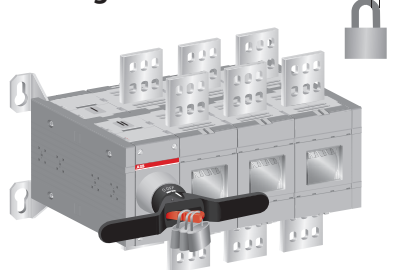
1,2 Nm
11 lb.in



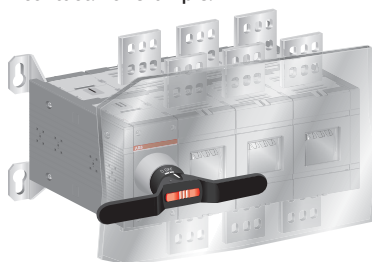
TX20
1,8Nm

Locking

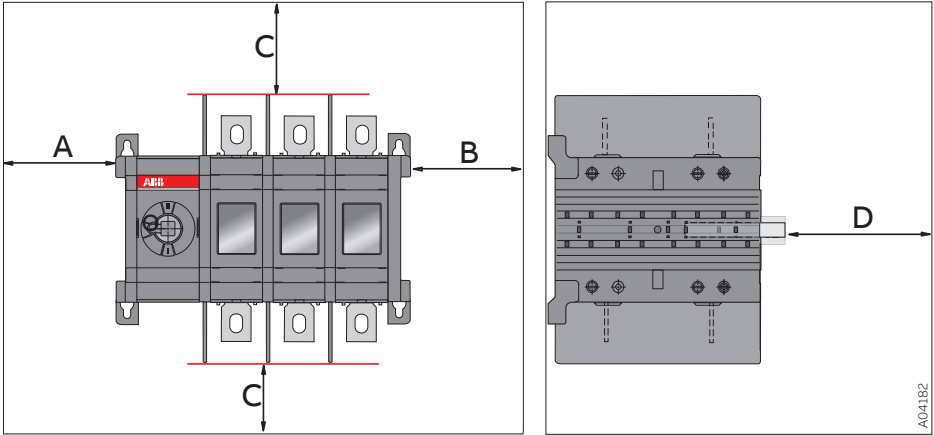
Ø5...10mm



Note: Use protection against direct contact. For example:



Clearances per UL98



UL standard switches, clearances per UL98

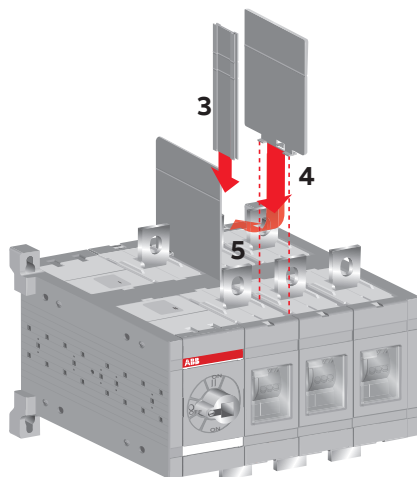
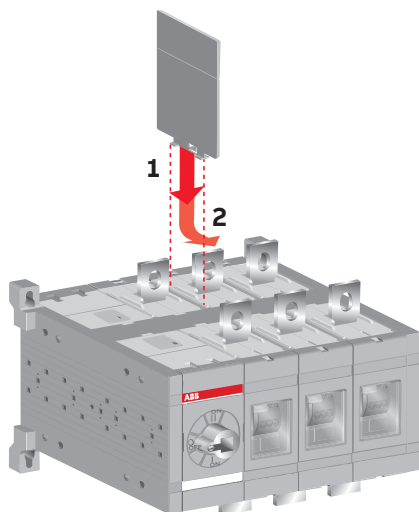
Size (Current)	A	B	D	C
OT_100-1200U_C	0	0.5 in/13 mm	0.5 in/13 mm	According to the UL98 standard

Minimum enclosure size or equivalent volume

Size (current)	Current	Height	Width	Depth
OTDC100U_C	100 A	6.3 in/190 mm	19 in/490 mm	12 in/315 mm
OT200U_C	200 A	16 in/406 mm	12 in/305 mm	8 in/203 mm
OT400U_C	400 A	24 in/610 mm	14 in/356 mm	10 in/254 mm
OT600U_C	600 A	24 in/610 mm	28 in/700 mm	16 in/400 mm
OT800-1200U_C	800/940 A	48 in/1220 mm	24 in/610 mm	16 in/400 mm

Phase barriers

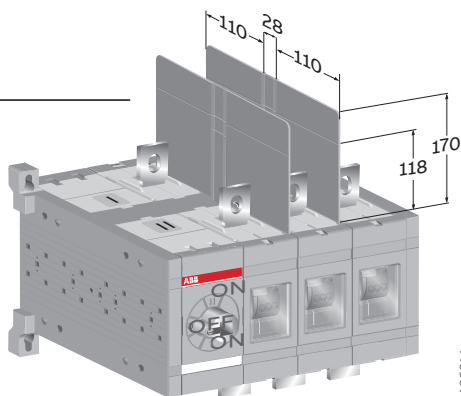
OTB_



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.



AO6014

Phase barriers

OTB_

Phase barrier type 68912 on:

OT800-1200U_C_

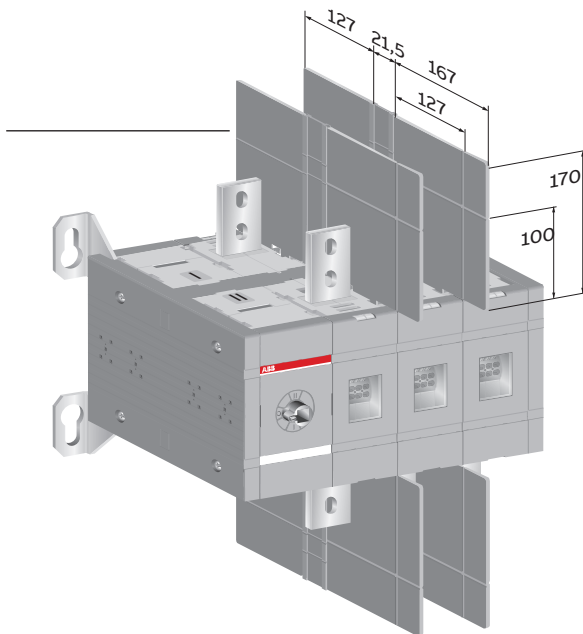
OT1000-1600E_C_

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.

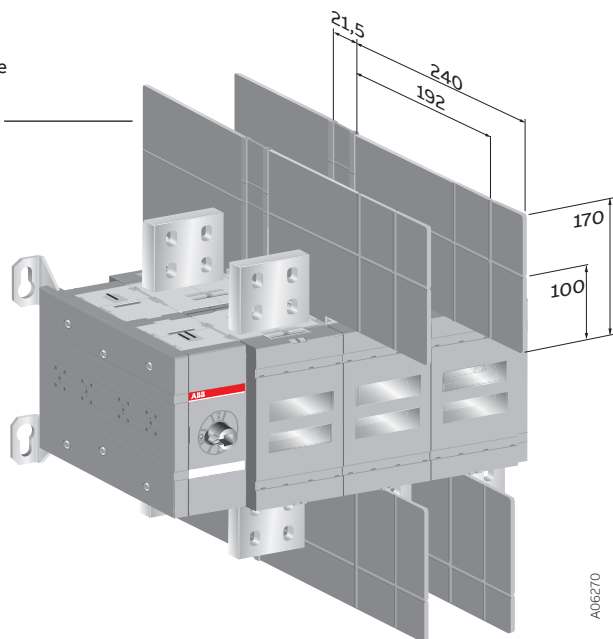


Phase barriers

OTB_

Phase barriers CXBY69470 must be used on OT3200E_C.

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





BG	Внимание! Опасно напряжение! Да се монтира само от лице с електротехническа квалификация.
CN	警告！电压危险！只能由专业电工进行安装。
CZ	Varování! Nebezpečné napětí! Montáž smí provádět výhradně elektrotechnik!
DA	Advarsel! Farlig elektrisk spænding! Installation må kun foretages af personer med elektroteknisk ekspertise.
DE	Warnung! Gefährliche Spannung! Installation nur durch elektrotechnische Fachkraft.
EL	Προειδοποίηση! Υψηλή τάση! Η εγκατάσταση πρέπει να γίνεται μόνο από εξειδικευμένους ηλεκτροτεχνικούς.
EN	Warning! Hazardous voltage! Installation by person with electrotechnical expertise only.
ES	¡Advertencia! ¡Tensión peligrosa! La instalación deberá ser realizada únicamente por electricistas especializados.
ET	Hoiatus! Ohtlik pinge. Paigaldada võib ainult elektrotehnika-alane ekspert.
FI	Varoitus! Vaarallinen jännite! Asennuksen voi tehdä vain sähköalan ammattihenkilö.
FR	Avertissement! Tension électrique dangereuse! Installation uniquement par des personnes qualifiées en électrotechnique.
HR	Upozorenje! Opasan napon! Postavljati smije samo elektrotehnički stručnjak.
HU	Figyelmeztetés! Veszélyes feszültség! Csak elektrotechnikai tapasztalattal rendelkező szakember helyezheti üzembe.
IE	Rabhadh! Voltas guaiseach! Ba chóir do dhuine ag a bhfuil saineolas leictreicniúil, agus an té sin amháin, é seo a shuiteáil.
IT	Avvertenza! Tensione pericolosa! Fare installare solo da un elettricista qualificato.
LT	Dėmesio! Pavojinga įtampa! Dirbti leidžiama tik elektrotechnikui patirties turintiems asmenims.
LV	Uzmanību! Bīstami - elektrība! Montāžas darbus drīkst veikt tikai personas, kurām ir atbilstošas elektrotehniskās zināšanas.
MT	Twissija! Vultagg perikoluż! Għandu jiġi installat biss minn persuna b'kompetenza elettroteknika.
NL	Waarschuwing! Gevaarlijke spanning! Mag alleen geïnstalleerd worden door een deskundige elektrotechnicus.
NO	Advarsel! Farlig spänning! Montering skal kun utføres av kvalifiserte personer med elektrokompetanse.
PL	Ostrzeżenie! Niebezpieczne napięcie! Instalacji może dokonać wyłącznie osoba z fachową wiedzą w dziedzinie elektrotechniki.
PT	Aviso! Tensão perigosa! A instalação só deve ser realizada por um eletricista especializado.
RO	Avertizare! Tensiune periculoasă! Instalarea trebuie efectuată numai de către o persoană cu experiență în electrotehnică.
RU	Осторожно! Опасное напряжение! Монтаж должен выполняться только специалистом-электриком.
SE	Varning! Farlig spänning! Installation får endast utföras av en elektriker.
SK	Varovanie! Nebezpečné napätie! Montáž môže vykonávať iba skúsený elektrotechnik.
SL	Opozorilo! Nevarna napetost! Vgradnjo lahko opravi le oseba z elektrotehničnim strokovnim znanjem.



Contact us

ABB Oy

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FI-65101 Vaasa
Finland

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