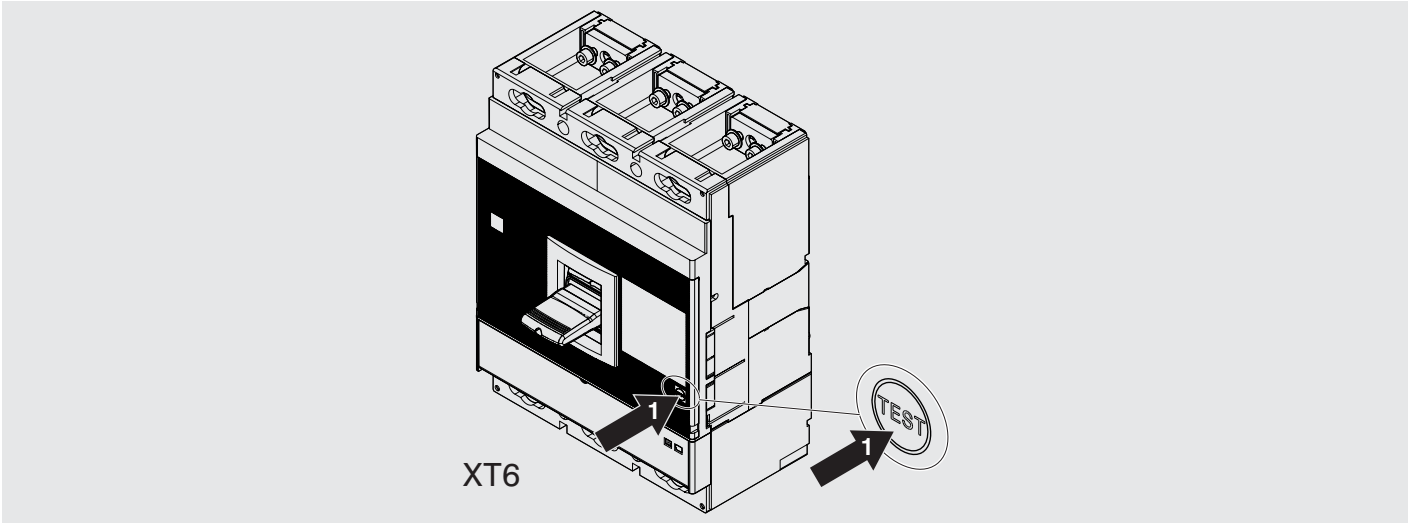


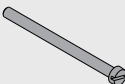
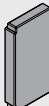
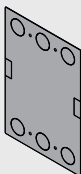
SACE Tmax XT



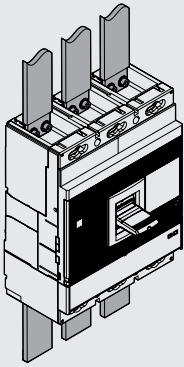
Istruzioni di installazione XT6 UL
Installation instructions XT6 UL
Installationsanleitung XT6 UL
Instructions pour l'installation XT6 UL
Instrucciones de instalación XT6 UL
安装说明书 XT6 UL

XT6 3p-4p



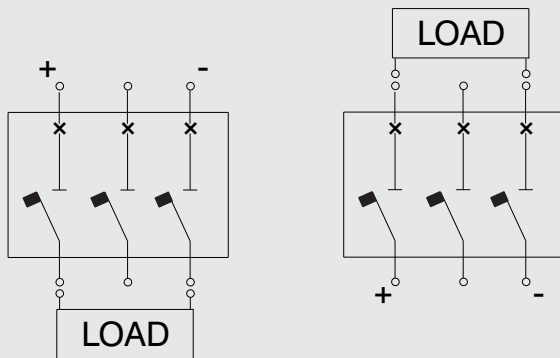
		A	B	C	D	E	F	G	H	I	L	M	N																			
				 CH 8	 CH 5						 CH 13																					
		<table><tr><td>LENGHT</td><td>M</td></tr><tr><td>70mm (2.75")</td><td>M5</td></tr></table>	LENGHT	M	70mm (2.75")	M5	<table><tr><td>Ø 5,3x10 (0.21"x0.39")</td></tr></table>	Ø 5,3x10 (0.21"x0.39")	<table><tr><td>M</td></tr><tr><td>M5</td></tr></table>	M	M5	<table><tr><td>LENGHT</td><td>M</td></tr><tr><td>25mm (0.98")</td><td>M6</td></tr></table>	LENGHT	M	25mm (0.98")	M6	<table><tr><td>Ø 6,4x14 (0.25"x0.55")</td></tr></table>	Ø 6,4x14 (0.25"x0.55")			<table><tr><td>LENGHT</td><td>M</td></tr><tr><td>36mm (1.42")</td><td>M8</td></tr></table>	LENGHT	M	36mm (1.42")	M8	<table><tr><td>Ø 8,4x15 (0.33"x0.59")</td></tr></table>	Ø 8,4x15 (0.33"x0.59")	<table><tr><td>M</td></tr><tr><td>M8</td></tr></table>	M	M8		
LENGHT	M																															
70mm (2.75")	M5																															
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36mm (1.42")	M8																															
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M																																
M8																																
F	3p	x4	x4	x4	x12	x12	x1	x1	-	-	-	x1	x1																			
	4p	x4	x4	x4	x16	x16	x1	x1	-	-	-	x1	x1																			
W	3p	-	-	-	-	-	-	-	x4	x4	x4	-	-																			
	4p	-	-	-	-	-	-	-	x4	x4	x4	-	-																			



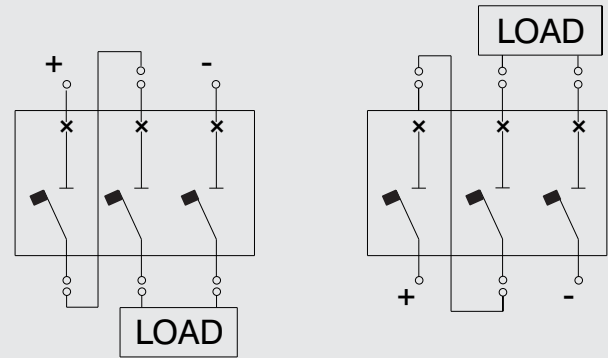


Usare cavi o barre isolate o eseguire prove di tipo specifiche sull' installazione.
 Use cable or insulated busbars or perform specific type test on the installation.
 Kabel oder isolierte Sammelschienen verwenden oder die spezifische Typprüfung auf der Installation durchführen.
 Utiliser un câble ou des barres isolées ou réalise un test de type spécifique sur installation.
 Utilizar un cable o barras aisladas o efectuar una prueba de tipo específico sobre instalación.
 使用电缆或经绝缘处理的母排，否则需对安装进行指定的型式试验

≤ 500 V

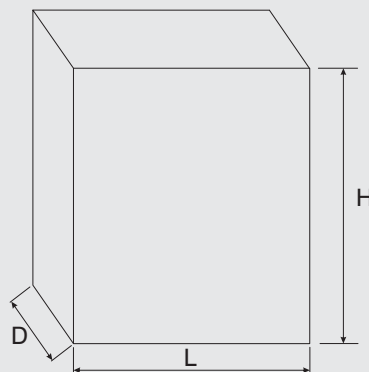


≤ 600 V

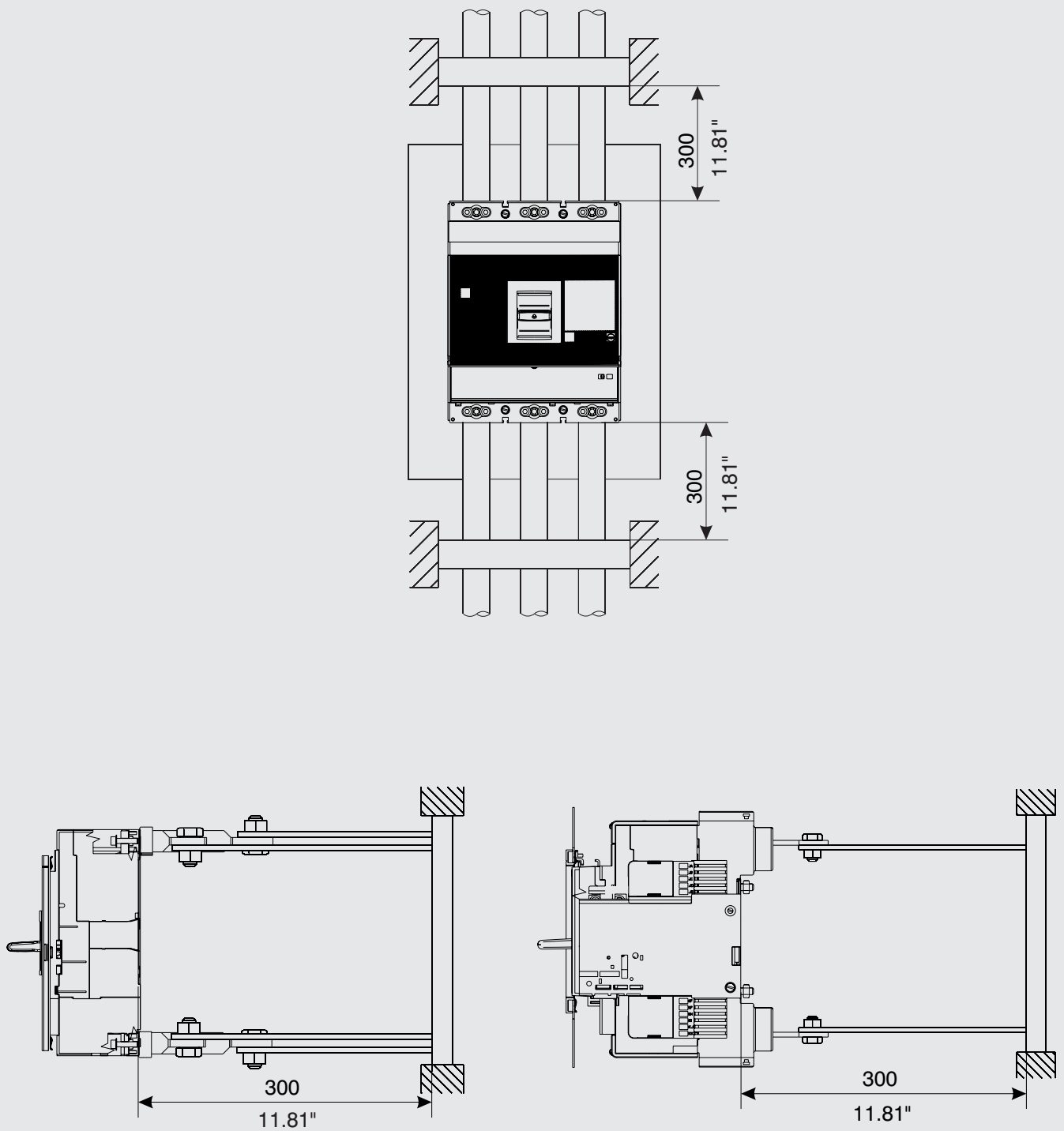


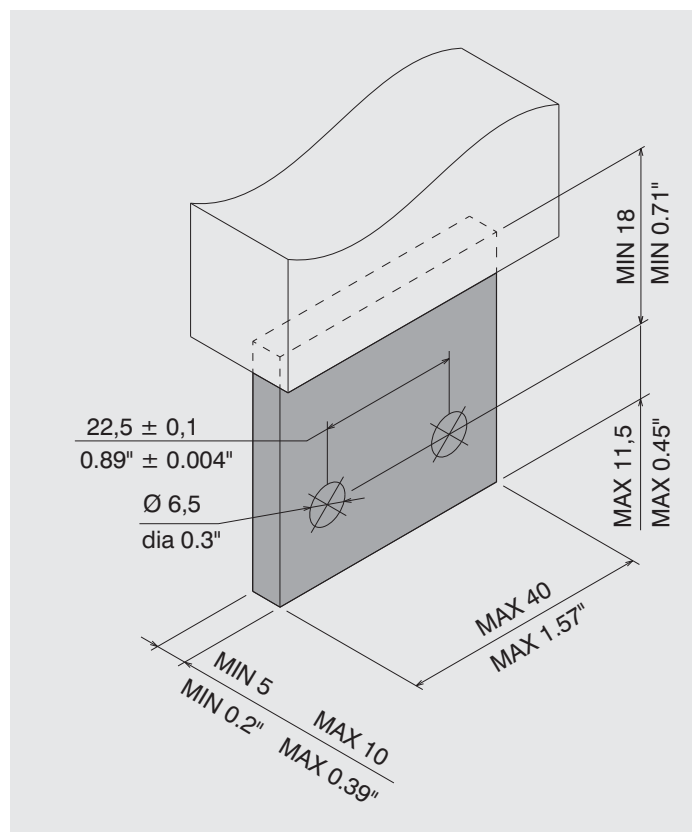
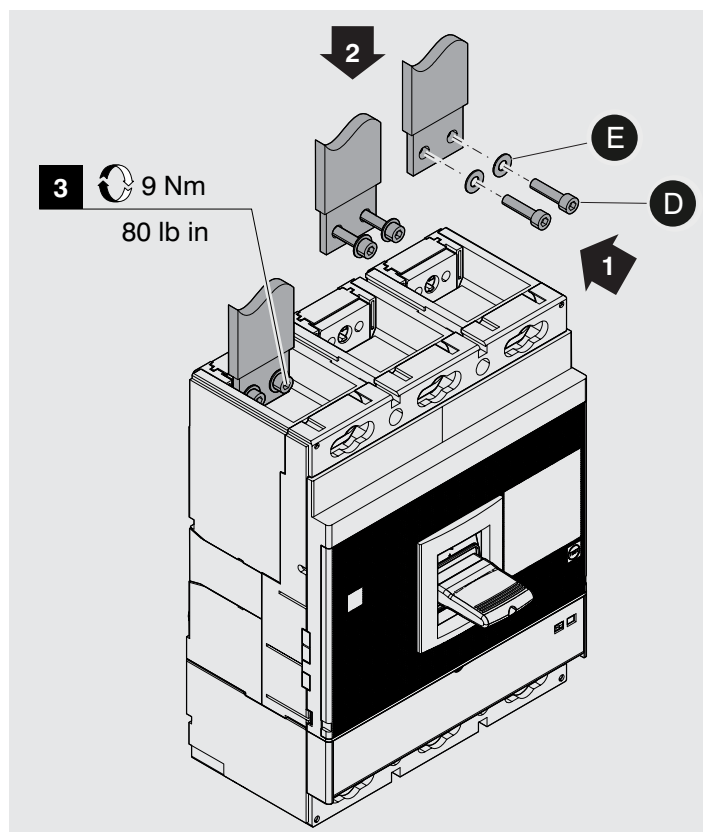
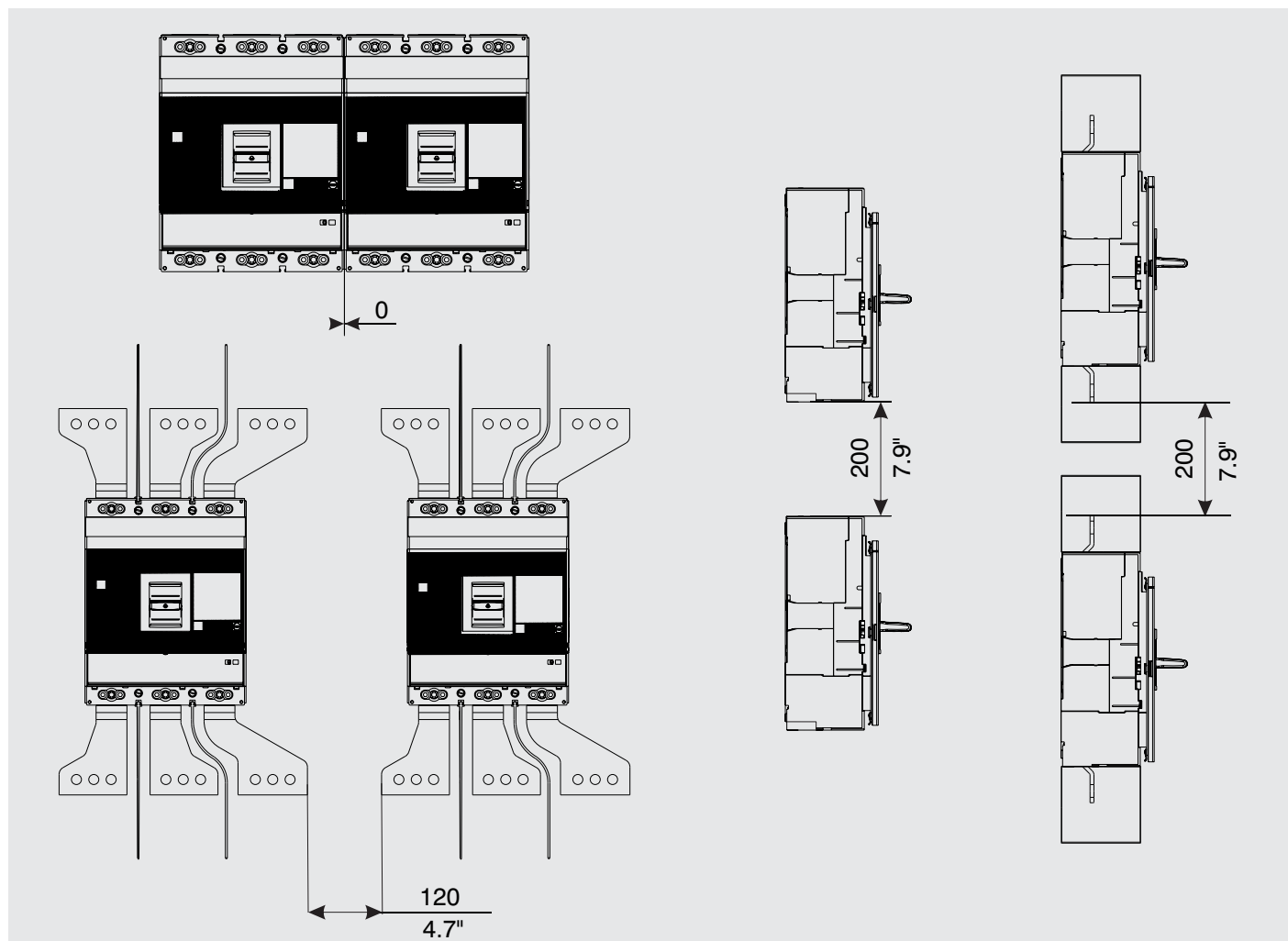
$I_n=600$ A cables 2x350kcmil minimum bending radius $R>91$ mm (3.58")
 $I_n=800$ A cables 3x300kcmil minimum bending radius $R>86$ mm (3.38")

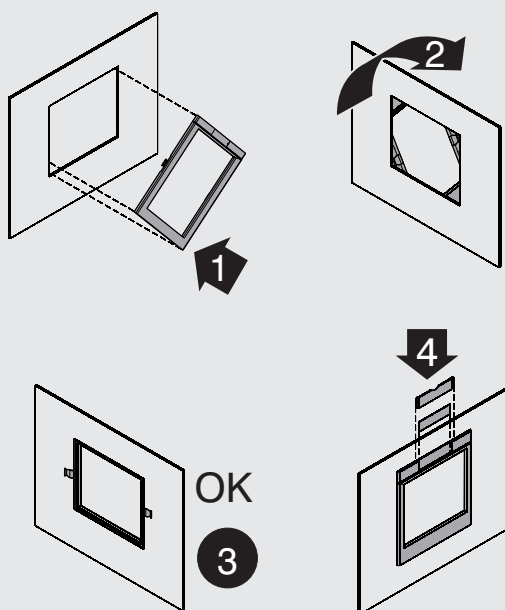
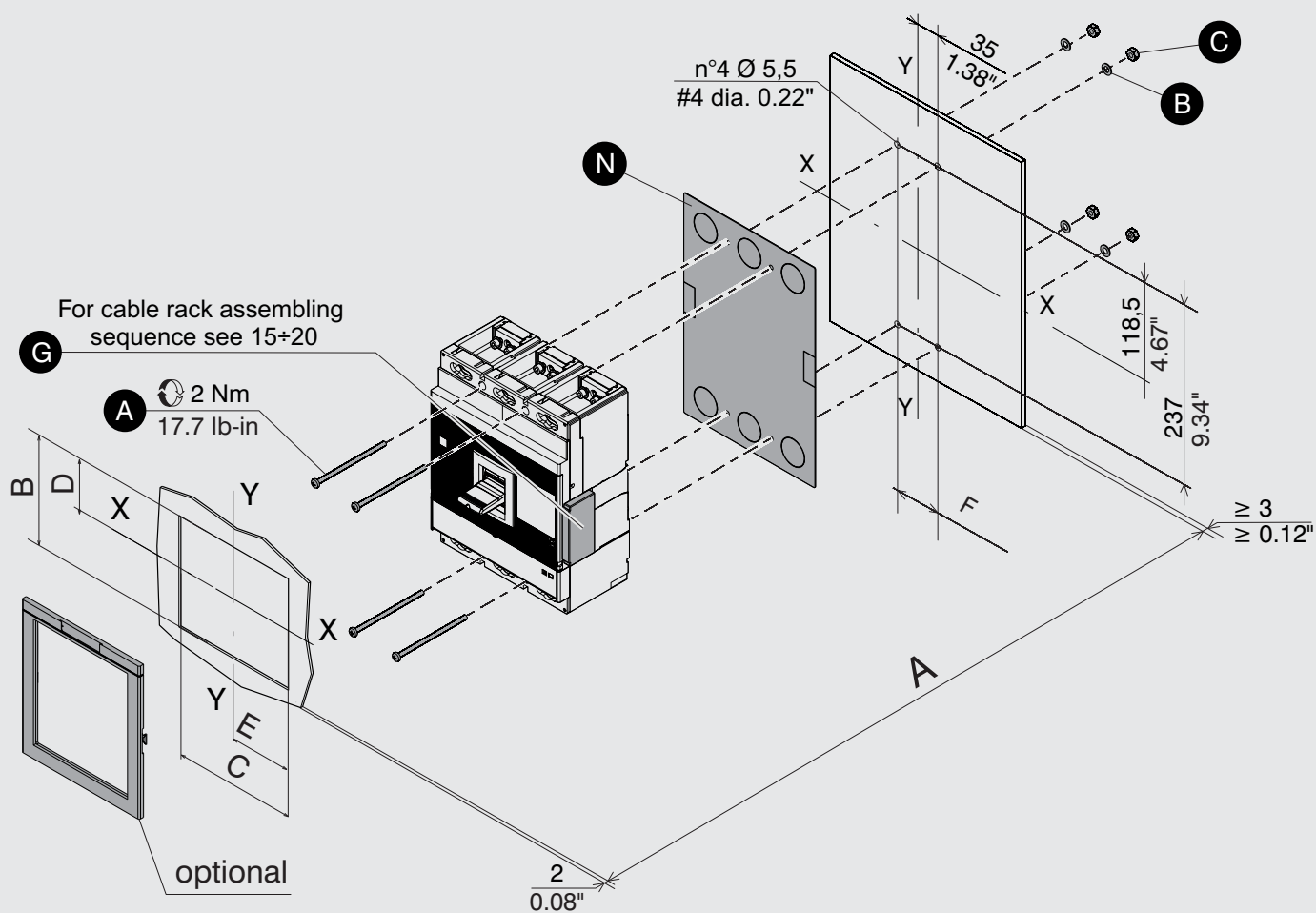
ENCLOSURES DIMENSIONS



Rating	I_n	Vents	Cable	H	L (3p)	L (4p)	D
80%	600A	NO	75°C	520/20.5"	420/16.5"	490/19.3"	200/7.9"
	800A	NO	75°C	520/20.5"	420/16.5"	490/19.3"	200/7.9"
100%	600A	NO	90°C	520/20.5"	420/16.5"	490/19.3"	200/7.9"
	800A	NO	90°C	520/20.5"	420/16.5"	490/19.3"	200/7.9"

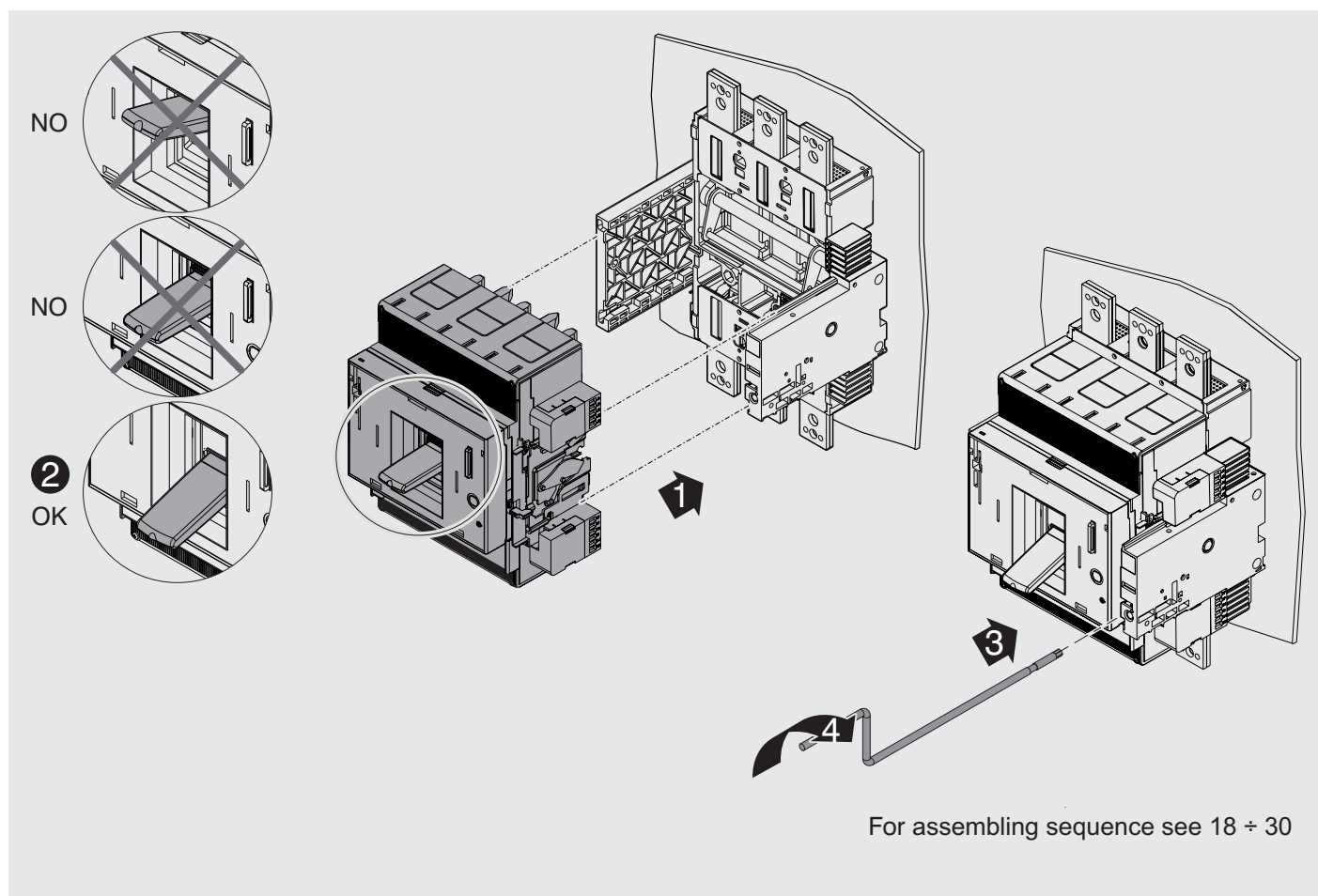
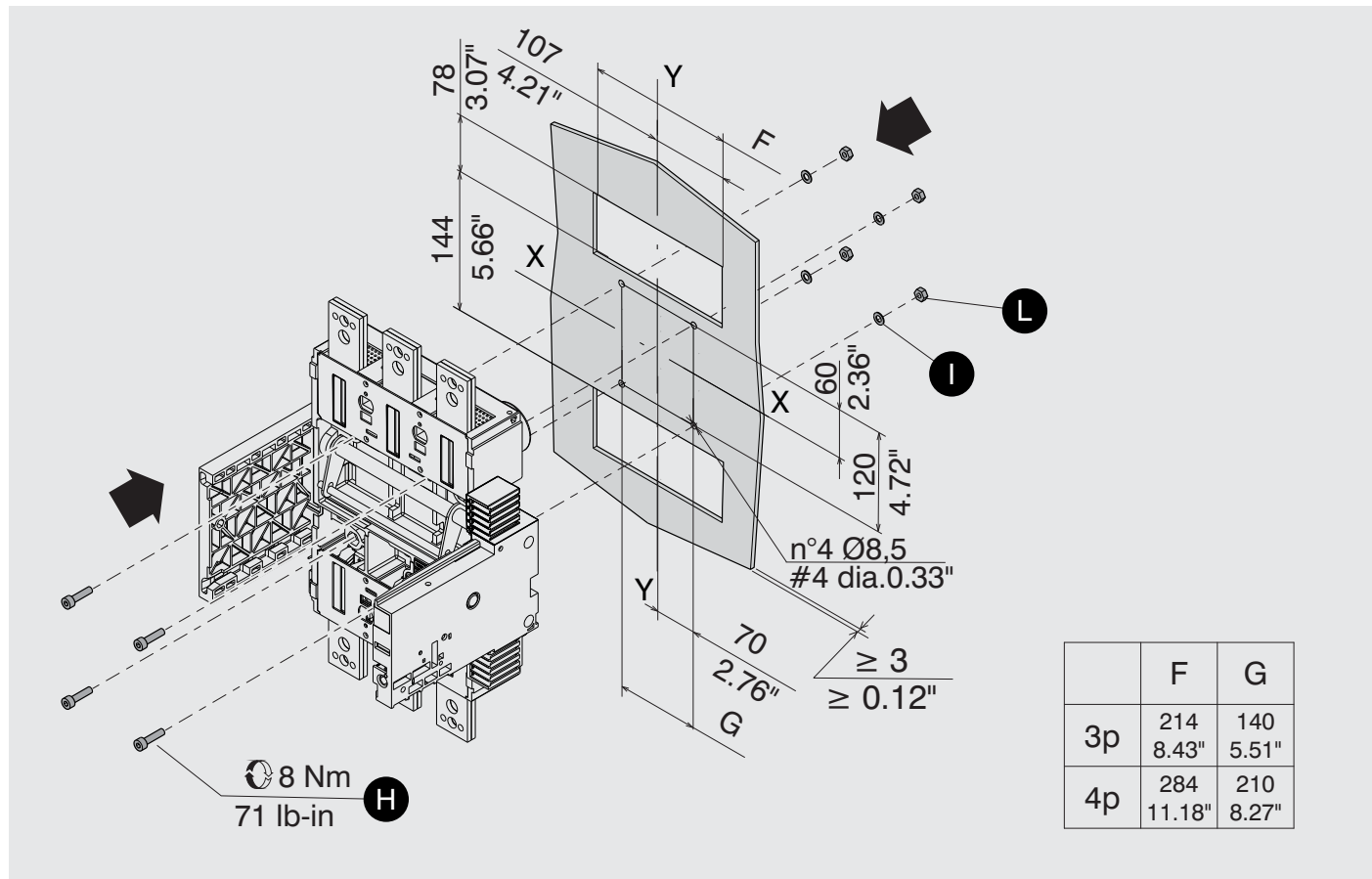


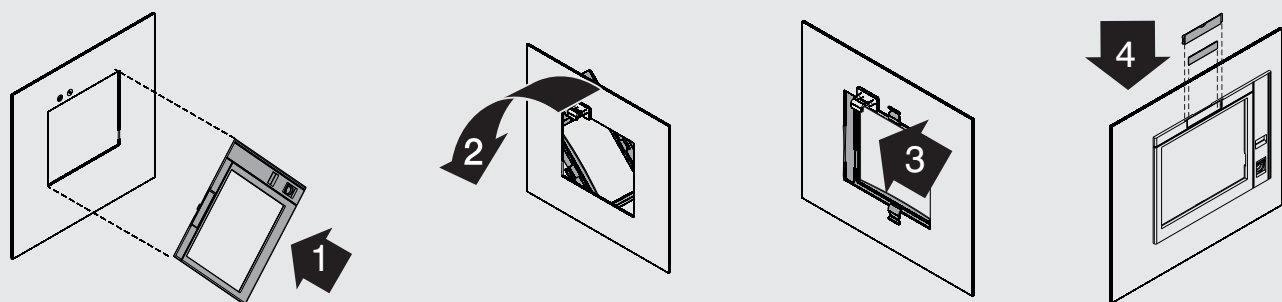
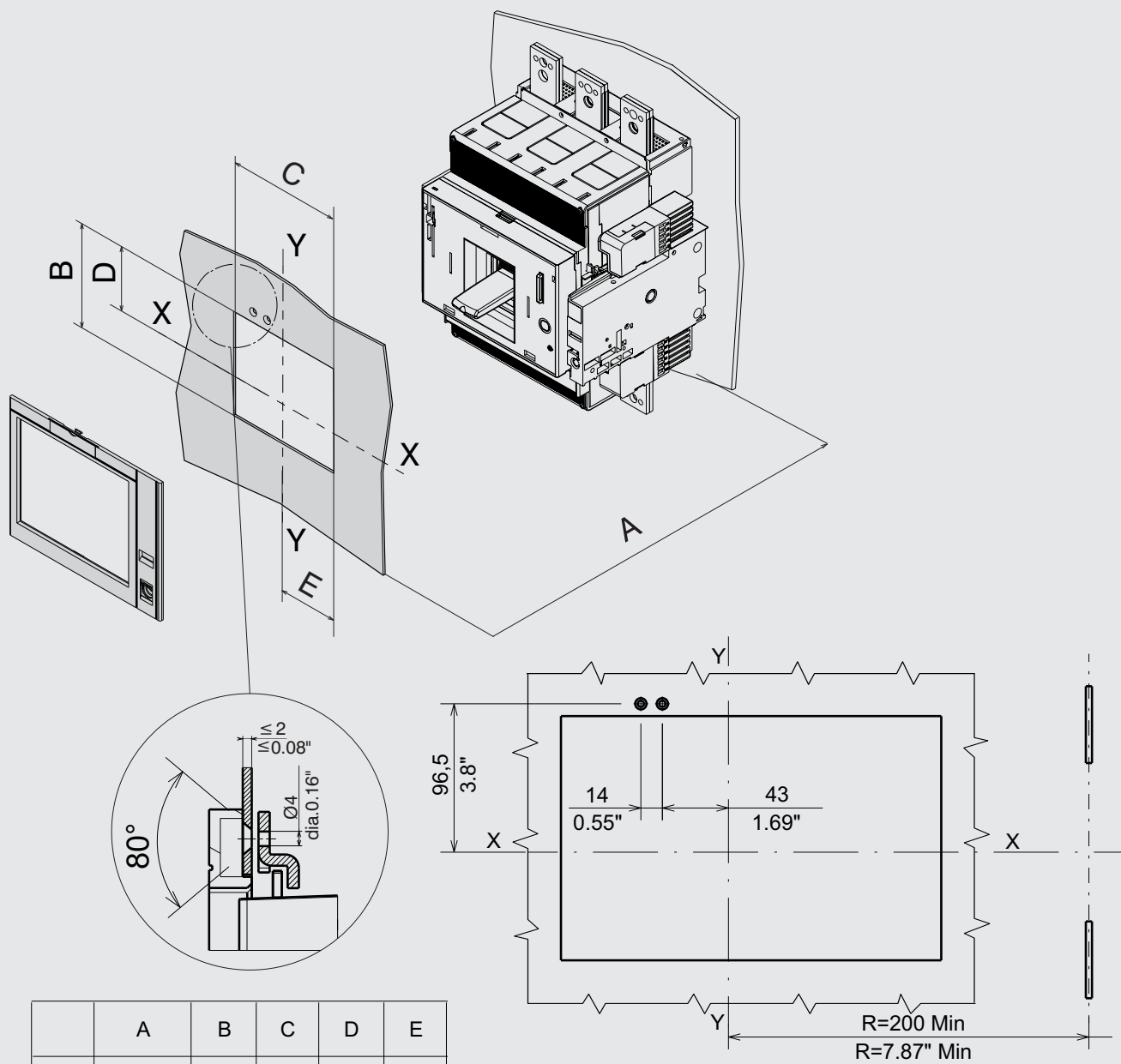


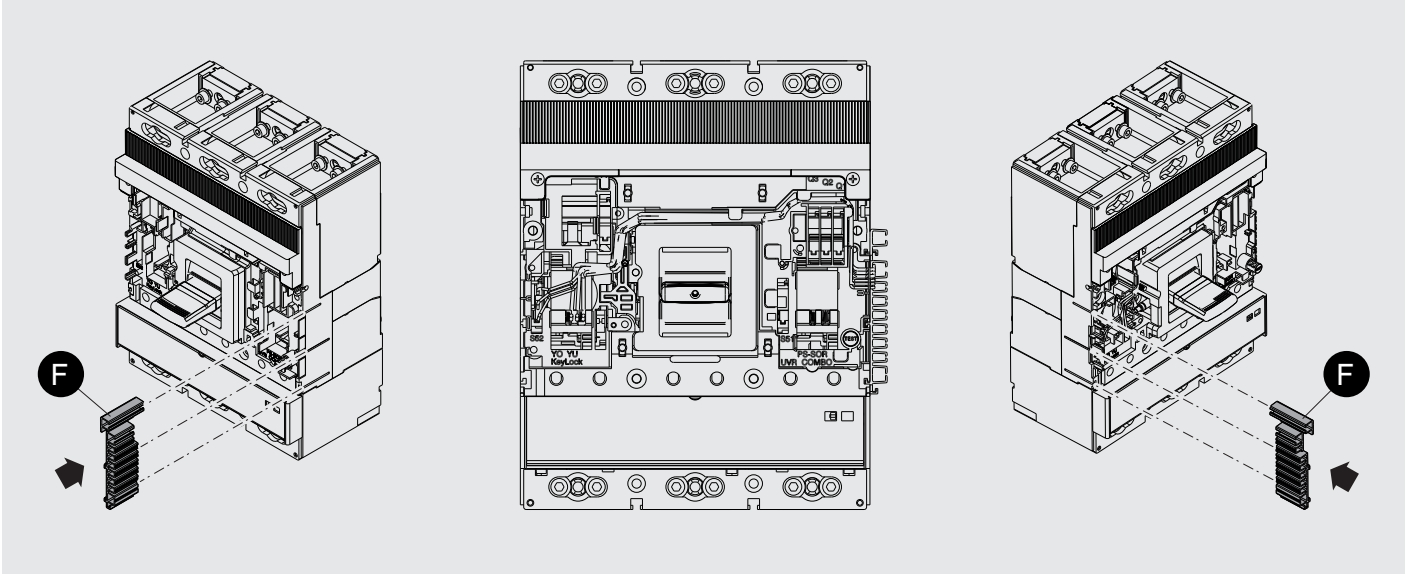
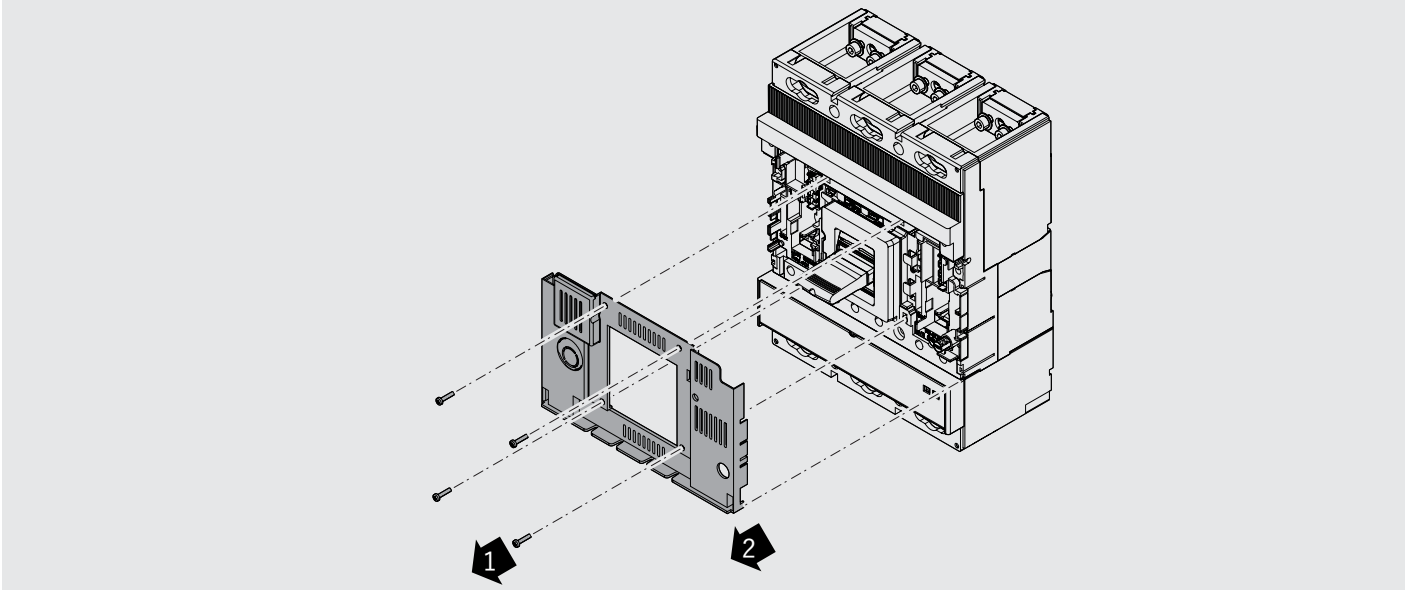
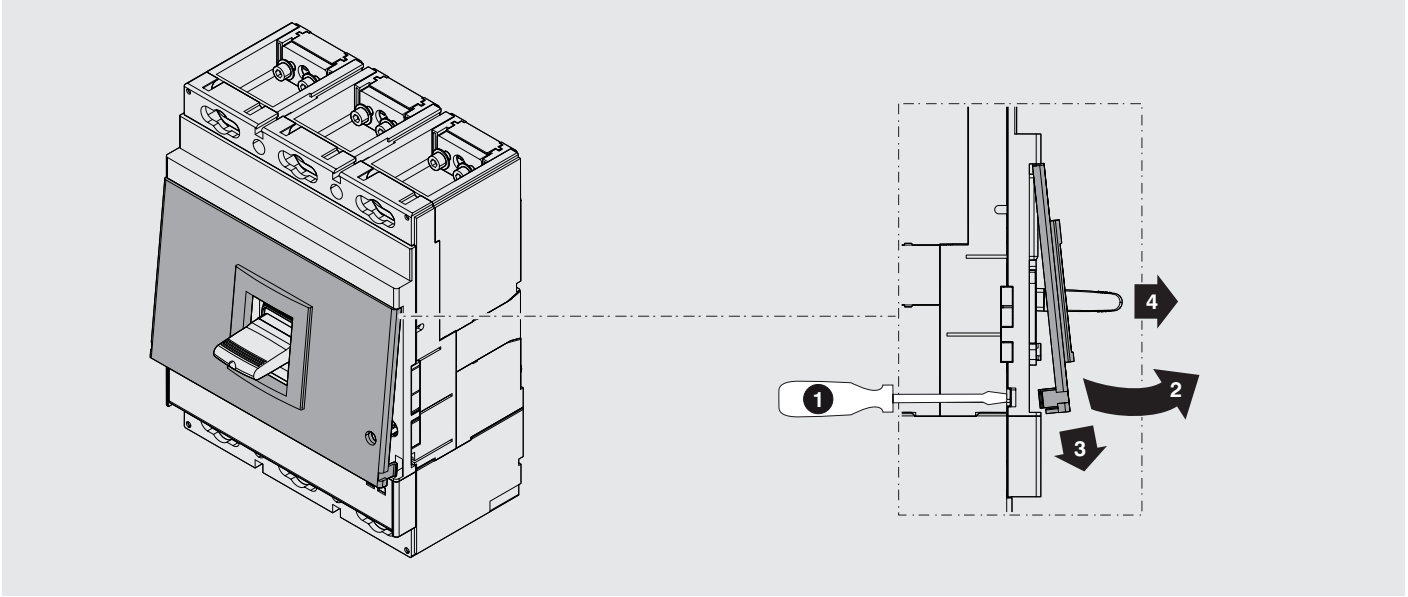


WITHOUT FLANGE SENZA MOSTRINA		A	B	C	D	E	F
	3p	103,5 4.03"	197 7.76"	212 8.35"	86 3.39"	106 4.17"	70 2.76"
	4p						140 5.51"

WITH FLANGE CON MOSTRINA		A	B	C	D	E	F
	3p	108 4.25"	202 7.95"	217 8.54"	88,5 3.48"	108,5 4.27"	70 2.76"
	4p						140 5.51"

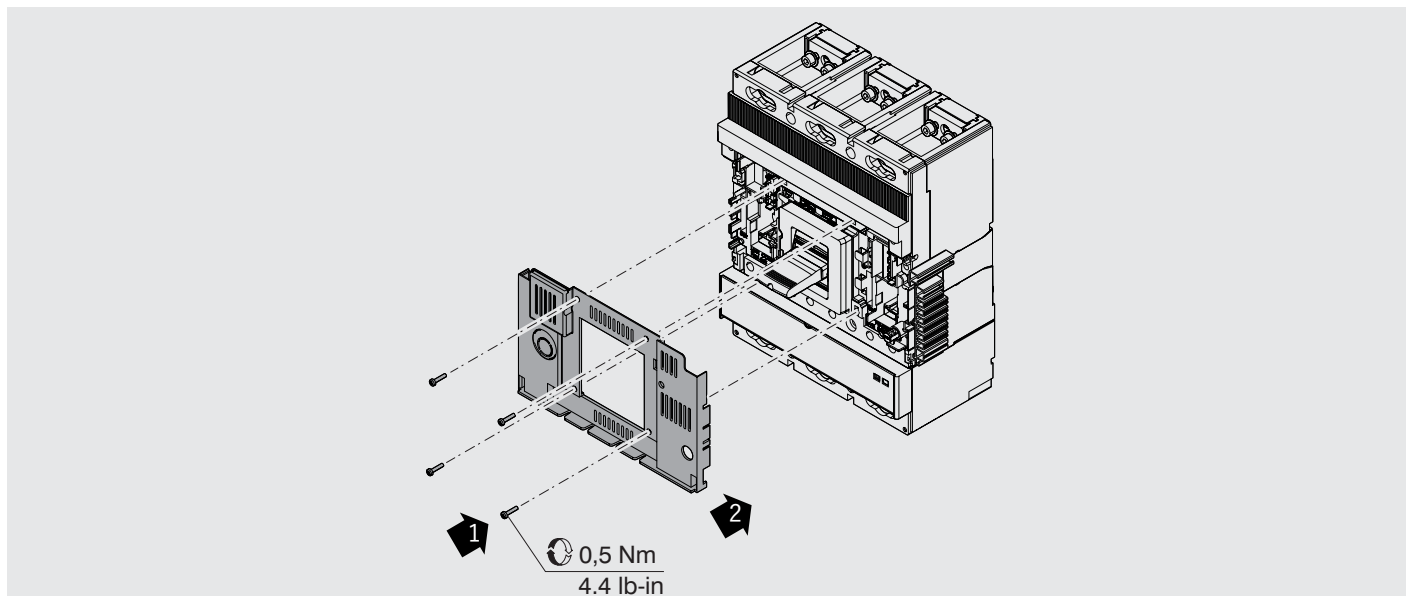






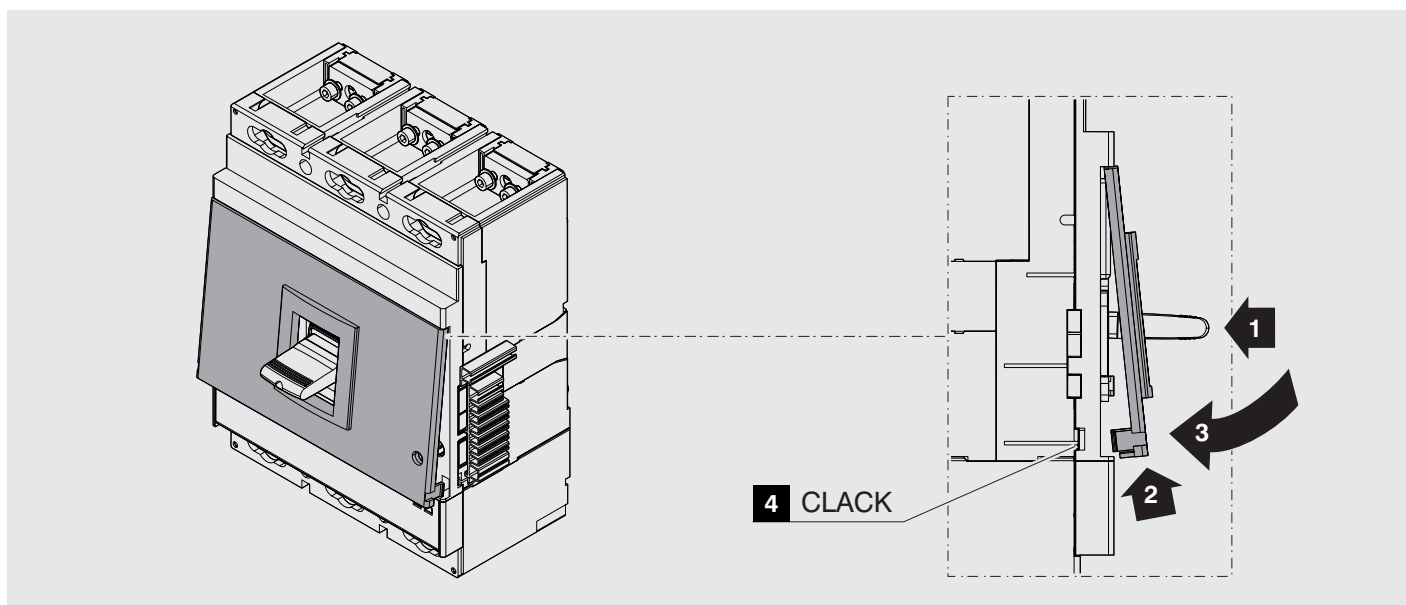
15

For cable rack assembling only - XT6 3p-4p



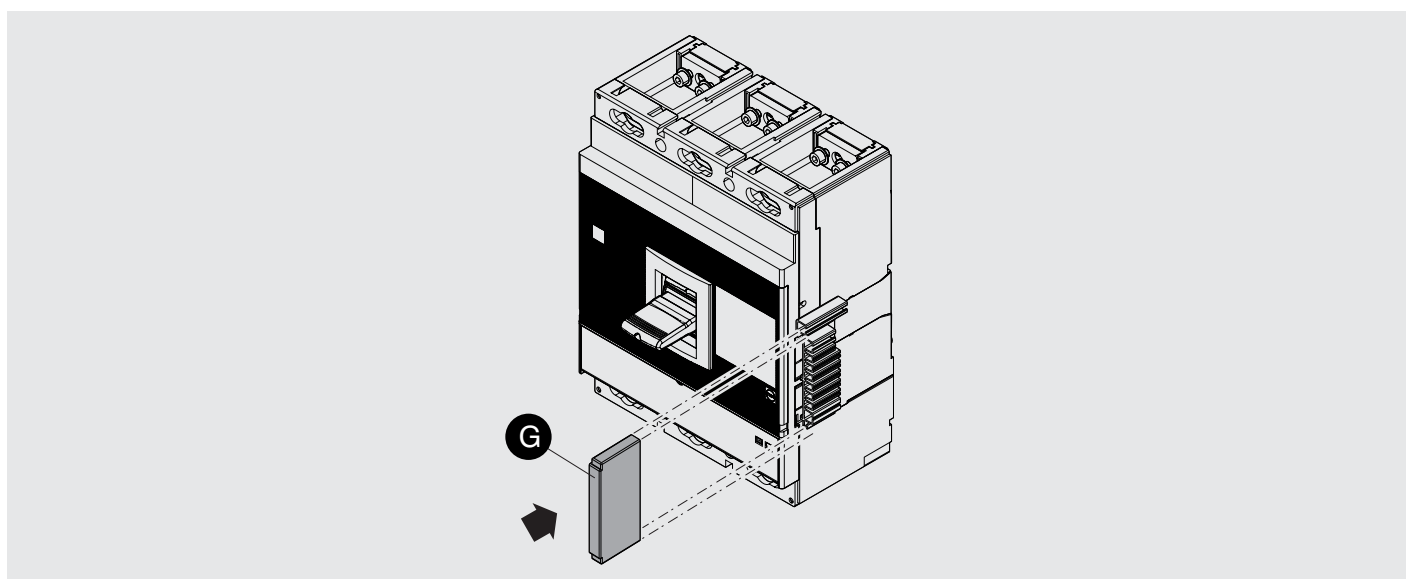
16

For cable rack assembling only - XT6 3p-4p

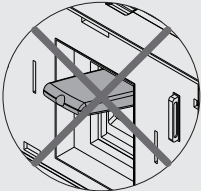


17

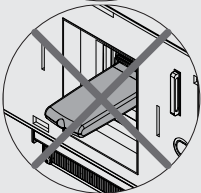
For cable rack assembling only - XT6 3p-4p



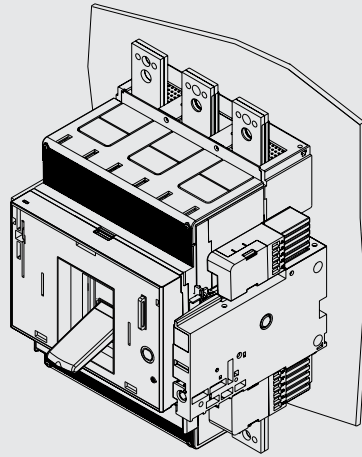
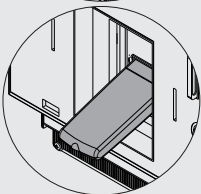
NO



NO



OK



Portare l'interruttore in posizione "Open"

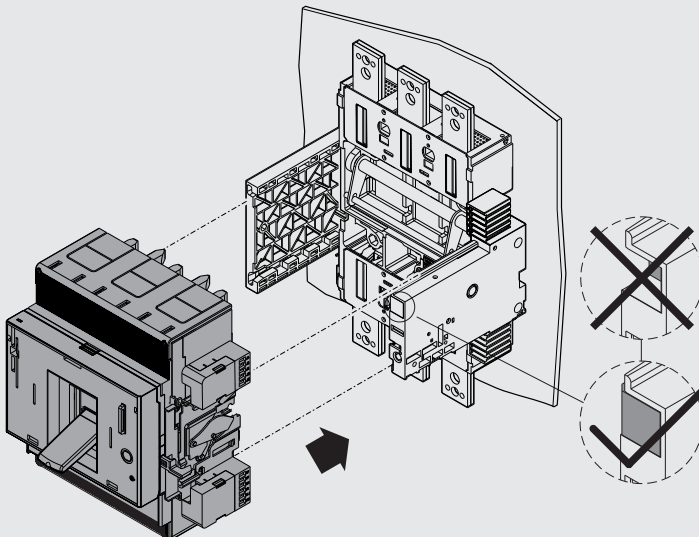
Switch the circuit-breaker to the "Open" position

Den Leistungsschalter in Position "Open" bringen

Placer le disjoncteur en position "Open"

Poner el interruptor en posición "Open"

将断路器切换到“Open”位置



Posizionare la parte mobile nella parte fissa e spingerla sino a quando va in arresto.

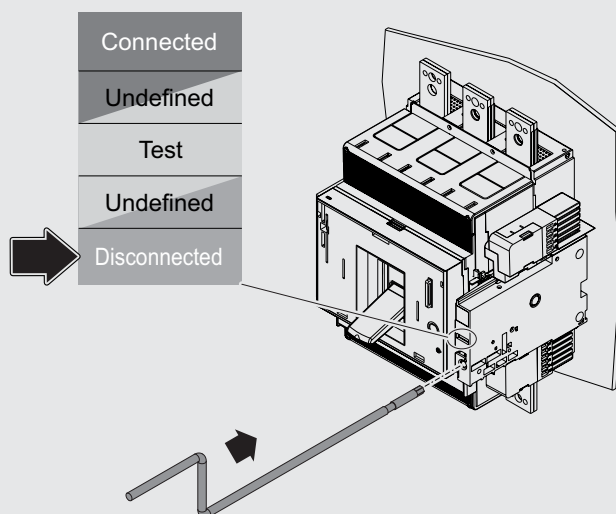
Position the moving part in the fixed part and push until it comes to a stop.

Das bewegliche Teil im festen Teil anordnen und es schieben, bis es anschlgt.

Placer la partie mobile dans la partie fixe et la pousser jusqu'à ce qu'elle arrive en butée.

Poner la parte móvil en la parte fija y empujarla hasta el bloqueo.

将活动部分调到固定部分的位置, 并向前推动至停下.



Inserire la manovella nella parte fissa. In questa fase la parte mobile è in posizione DISCONNECTED.

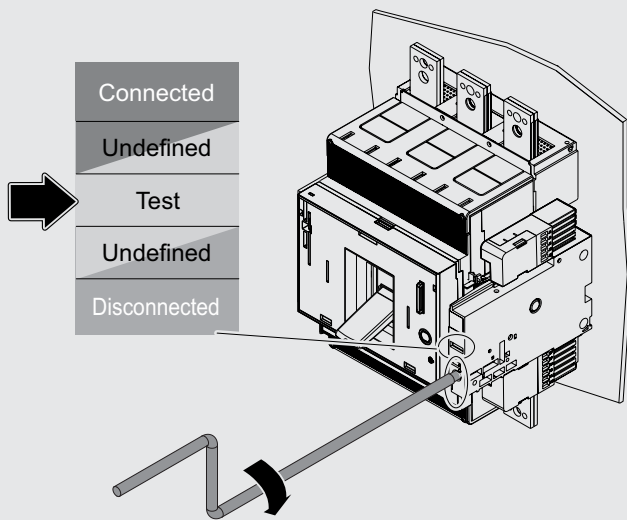
Insert the crank in the fixed part. In this phase the moving part is in DISCONNECTED position.

Die Handkurbel in das festen Teil stecken. In dieser Phase befindet sich das bewegliche Teil in der Position DISCONNECTED.

Introduire la manivelle dans la partie fixe. Dans cette phase la partie mobile est en position DISCONNECTED.

Introducir la manivela en la parte fija. En esta fase la parte móvil está en posición DISCONNECTED.

往移固定部分上插入摇把。这过程中, 移动部分仍处于 DISCONNECTED 位置.



Ruotare la manovella in senso orario sino a quando il segnalatore indica che l'interruttore è in posizione TEST.

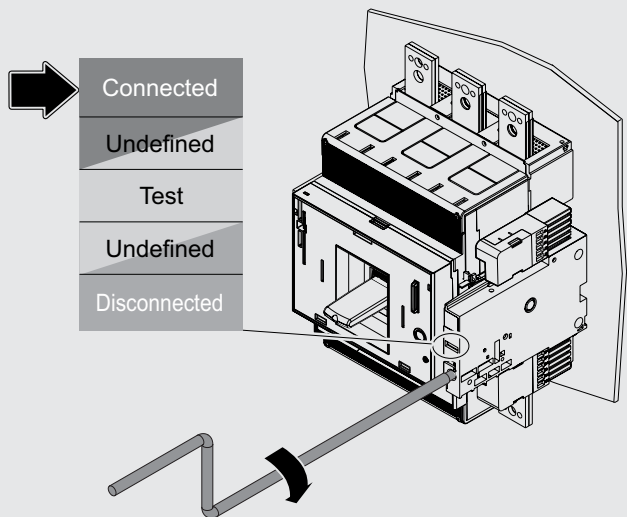
Turn the crank clockwise until the indicator shows that the circuitbreaker is in TEST position.

Die Handkurbel im Uhrzeigersinn drehen Die Anzeige meldet die Stellung des Leistungsschalters in der Position TEST.

Tourner la manivelle dans le sens horaire jusqu'à ce que l'indicateur signale que le disjoncteur est en position TEST.

Girar la manivela en sentido horario hasta que el indicador señale que el interruptor está en posición TEST.

顺时针转动手柄，直到出且位置指示装置显示断路器已处于 TEST 位置为止。



Ruotare la manovella in senso orario sino a quando il segnalatore indica che l'interruttore è in posizione CONNECTED.

L'interruttore si porta in posizione TRIPPED.

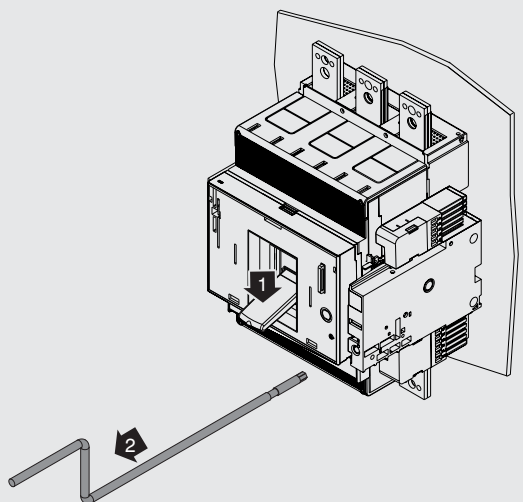
Turn the crank clockwise until the indicator shows that the circuitbreaker is in CONNECTED position.
The circuit breaker moves to TRIPPED position.

Die Handkurbel im Uhrzeigersinn drehen Die Anzeige meldet die Stellung des Leistungsschalters in der Position CONNECTED.
Der Leistungsschalter bewegt sich in die Position TRIPPED.

Tourner la manivelle dans le sens horaire jusqu'à ce que l'indicateur signale que le disjoncteur est en position CONNECTED.
Le disjoncteur se déplace en position TRIPPED.

Girar la manivela en sentido horario hasta que el indicador señale que el interruptor está en posición CONNECTED.
El interruptor se mueve a la posición TRIPPED.

顺时针转动手柄，直到出且位置指示装置显示断路器已处于 CONNECTED 位置为止。
开关移到 TRIPPED 位置。



Portare l'interruttore in posizione "Open"

Estrarre la manovella. L'interruttore può essere chiuso.

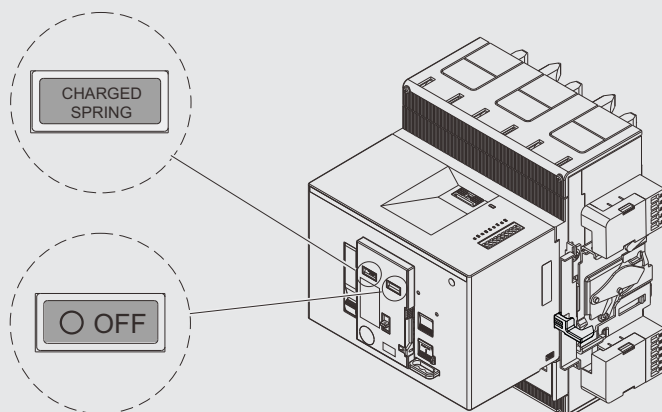
Switch the circuit-breaker to the "Open" position
Extract the crank. The circuit-breaker can be closed.

Den Leistungsschalter in Position "Open" bringen
Die Handkurbel herausziehen. Der Leistungsschalter kann eingeschaltet werden

Placer le disjoncteur en position "Open"
Extraire la manivelle. Le disjoncteur peut être fermé

Poner el interruptor en posición "Open"
Extraer la manivela. El interruptor se puede cerrar

将断路器切换到 "Open" 位置
取出摇柄。可对断路器进行闭合操作。



Portare l'interruttore in posizione "OFF" e "Charged Spring"

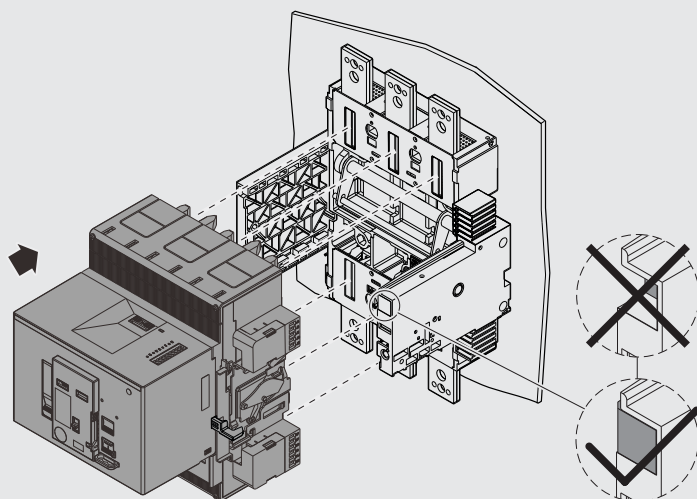
Switch the circuit-breaker to the "OFF" and "Charged Spring" position

Den Leistungsschalter in Position "OFF" und "Charged Spring" bringen

Placer le disjoncteur en position "OFF" e "Charged Spring"

Poner el interruptor en posición "OFF" y "Charged Spring"

"OFF-Charged Spring"



Posizionare la parte mobile nella parte fissa e spingerla sino a quando va in arresto.

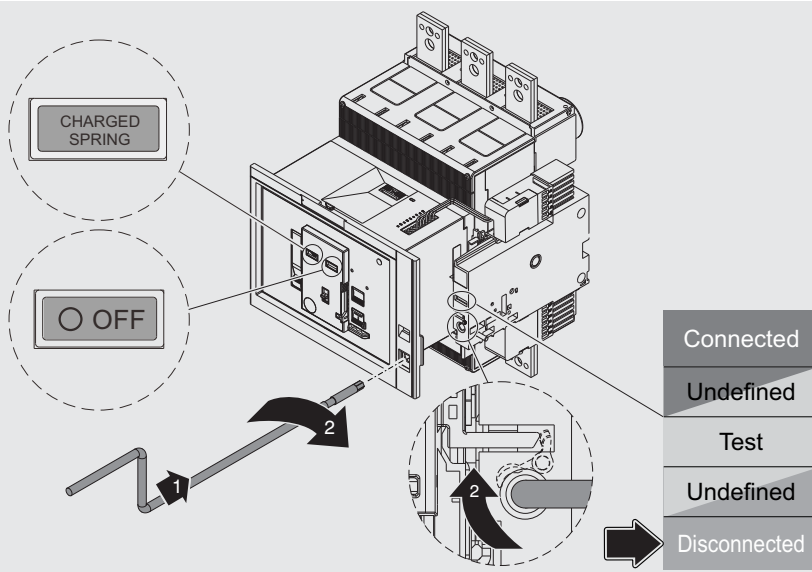
Position the moving part in the fixed part and push until it comes to a stop.

Das bewegliche Teil im festen Teil anordnen und es schieben, bis es anschlägt.

Placer la partie mobile dans la partie fixe et la pousser jusqu'à ce qu'elle arrive en butée.

Poner la parte móvil en la parte fija y empujarla hasta el bloqueo.

将活动部分调到固定部分的位置，并向前推动至停下。



Inserire la manovella nella parte fissa. In questa fase la parte mobile è in posizione DISCONNECTED.

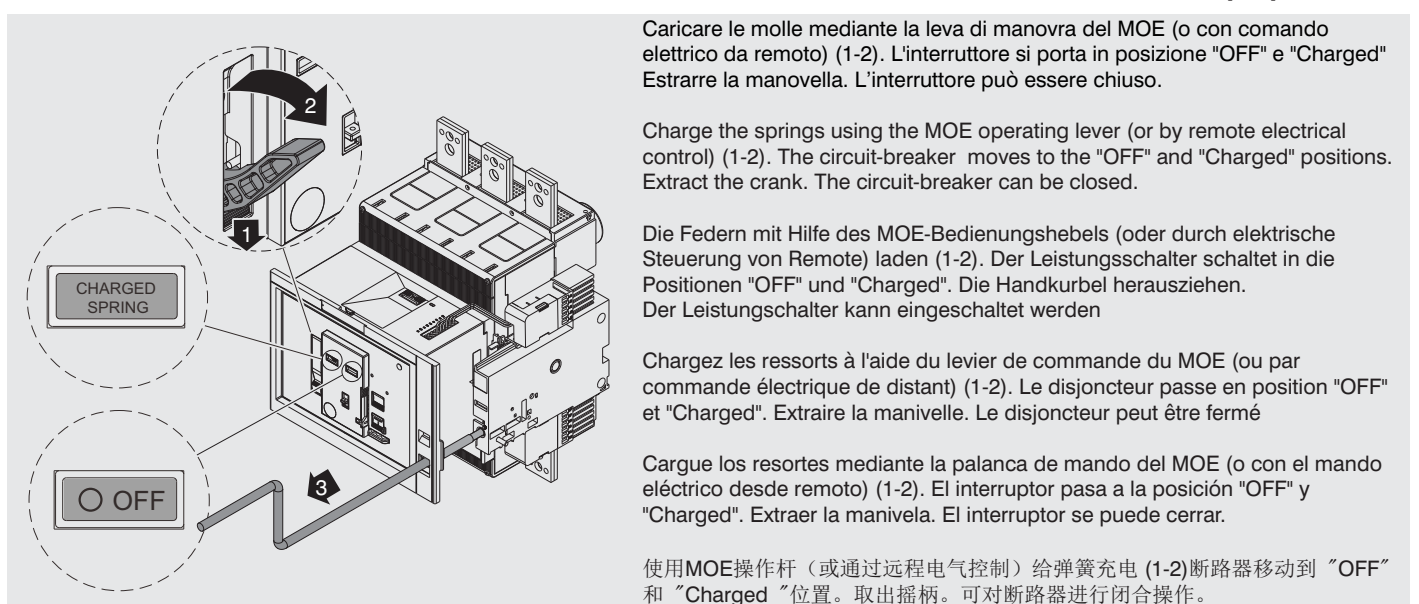
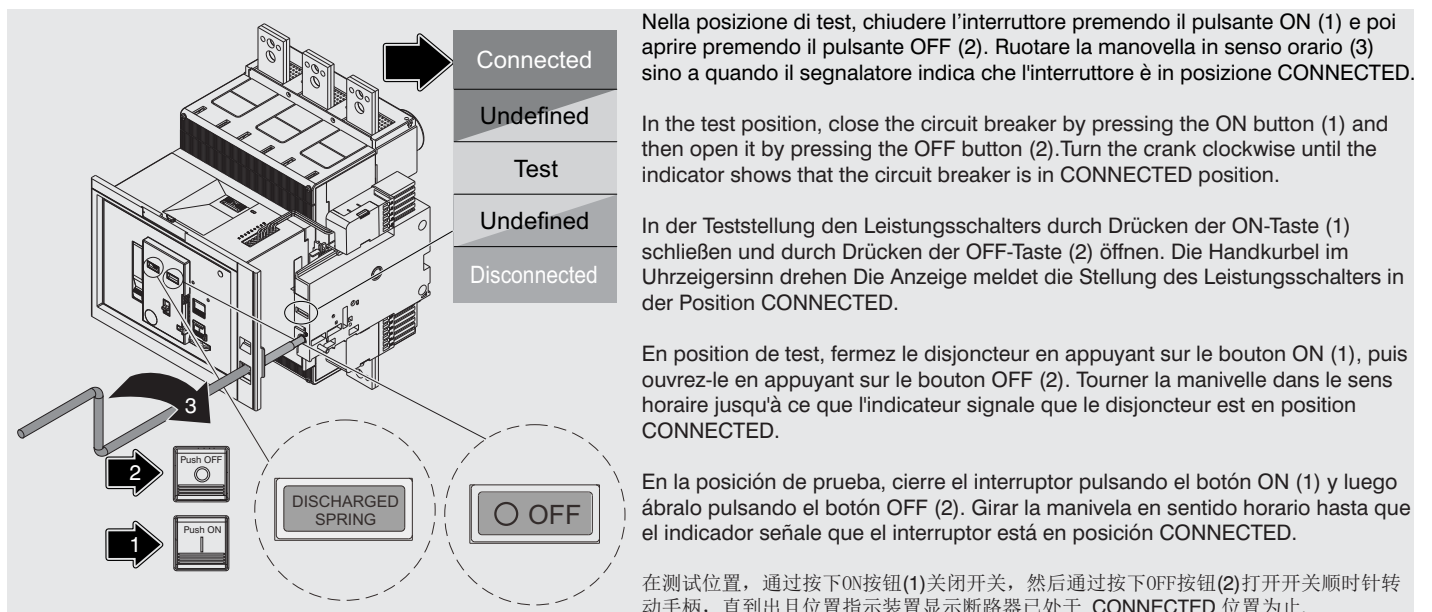
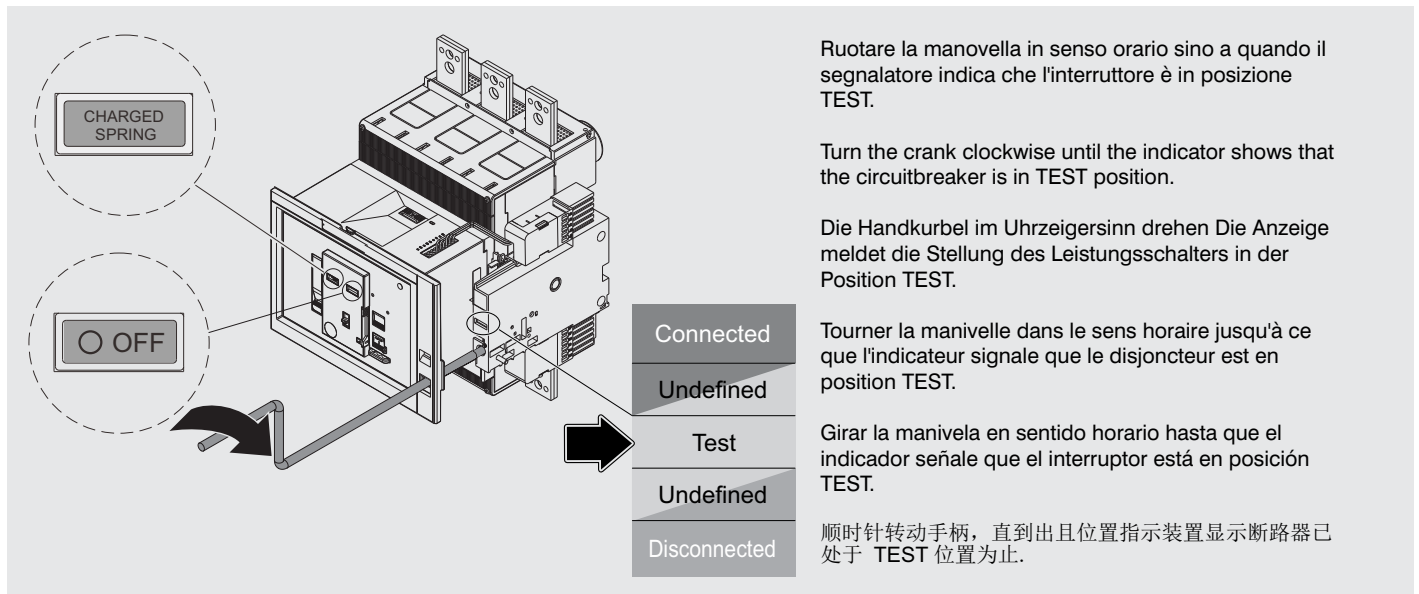
Insert the crank in the fixed part. In this phase the moving part is in DISCONNECTED position.

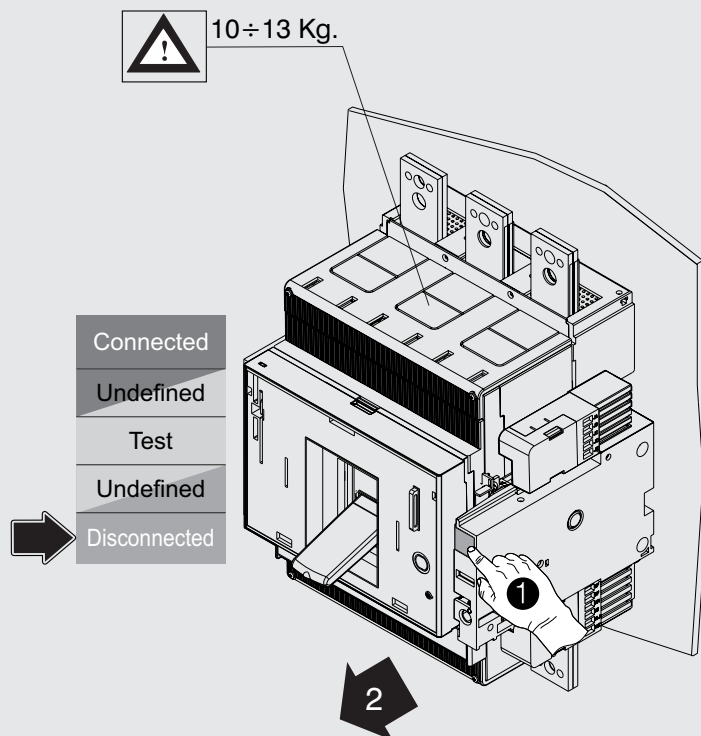
Die Handkurbel in das feste Teil stecken. In dieser Phase befindet sich das bewegliche Teil in der Position DISCONNECTED.

Introduire la manivelle dans la partie fixe. Dans cette phase la partie mobile est en position DISCONNECTED.

Introducir la manivela en la parte fija. En esta fase la parte móvil está en posición DISCONNECTED.

往移固定部分上插入摇把。这过程中，移动部分仍处于 DISCONNECTED 位置。





Per estrarre la parte mobile dalla parte fissa eseguire in senso inverso le medesime operazioni indicate per l'inserzione. Dopo l'estrazione, per rimuovere la parte mobile, sbloccare il blocco di sicurezza.

To extract the moving part from the fixed part, perform the same steps indicated for insertion in reverse order. After extraction, in order to remove the moving part, unlock the safety lock.

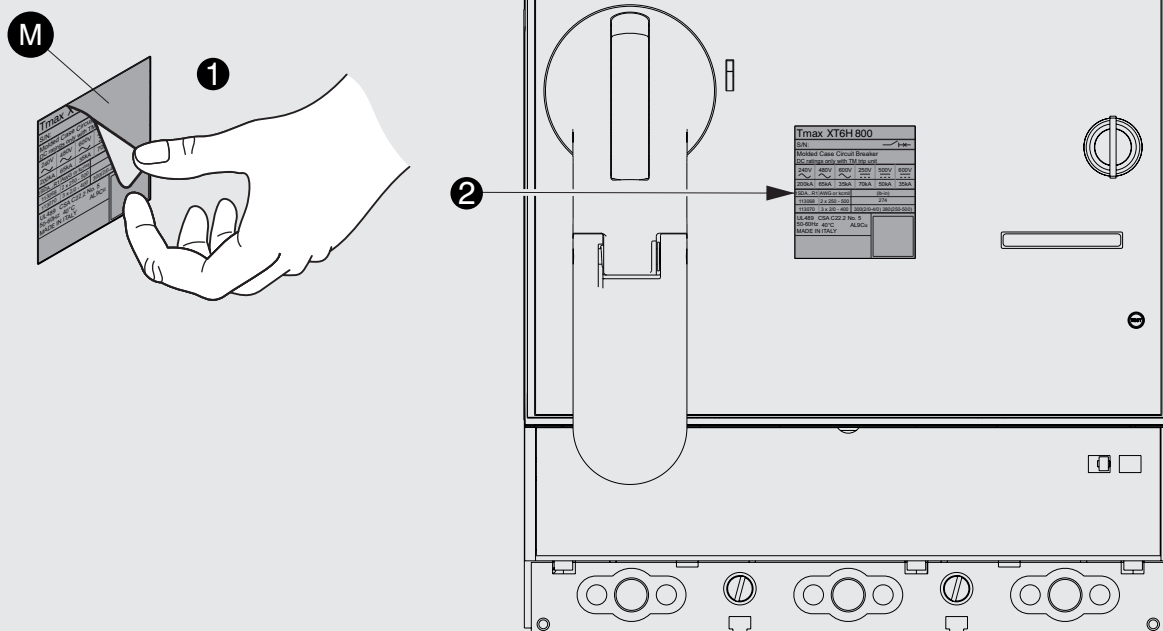
Um das bewegliche Teil aus dem festen Teil herauszuziehen, die gleichen Vorgänge, die zum Einfahren angegeben sind, in der umgekehrten Reihenfolge ausführen. Nach dem Ausfahren zum Entfernen des beweglichen Teil die Sicherheitsverriegelung entriegeln.

Pour extraire la partie mobile de la partie fixe effectuer les mêmes opérations indiquées pour l'embrochage dans le sens inverse. Après le débrogage, pour enlever la partie mobile, débloquer le verrou de sécurité.

Para extraer la parte móvil de la parte fija efectuar en sentido inverso las mismas operaciones indicadas para la inserción. Después de la extracción, para quitar la parte móvil, desbloquear el bloqueo de seguridad.

为将活动部分从固定部分拔下，应按照插入的步骤反向执行。拔下后，为移除活动部分，应解锁安全锁。

With front accessories only

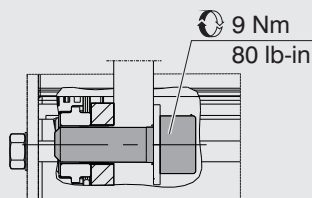


Terminali
Terminals
Anschlüsse
Prises
Terminales
端子类型

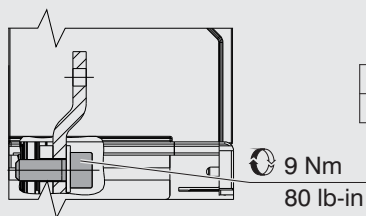
Codici
Codes
Codes
Codes
Códigos
物料编号

Istruzioni d'installazione
Installation instructions
Installationsanleitung
Instructions pour l'installation
Instrucciones de instalación
安装说明

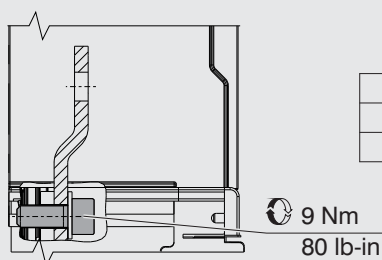
Dimensioni di ingombro
Overall dimensions
Abmessungen
Dimensions d'encombrement
Dimensiones generales
全部尺寸

F - F

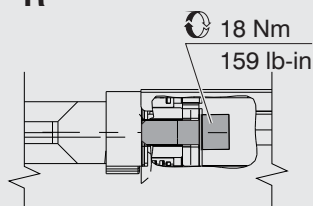
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1SDA104733R1	4pcs

[1SDH002012A1801](#)
[1SDH002012A1101](#)
F 800 - EF

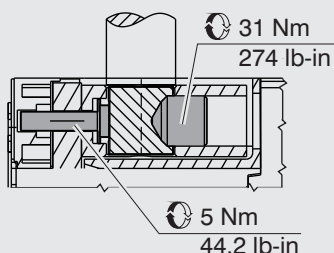
1SDA104736R1	3pcs
1SDA104737R1	4pcs

[1SDH002012A1802](#)
[1SDH002012A1104](#)
F/W - ES

1SDA104740R1	3pcs - Sup
1SDA113127R1	3pcs - Inf
1SDA104741R1	4pcs

[1SDH002012A1803](#)
[1SDH002012A1106](#)
F - R

1SDA104762R1	3pcs
1SDA104763R1	4pcs

[1SDH002012A1807](#)
[1SDH002012A1102](#)
F/W - FC CuAl
2x250...500kcmil


1SDA113068R1	3pcs
1SDA113069R1	4pcs

[1SDH002012A1805](#)
[1SDH002012A1107](#)

1SDA113093R1	3pcs	Vaux
1SDA113094R1	4pcs	Vaux

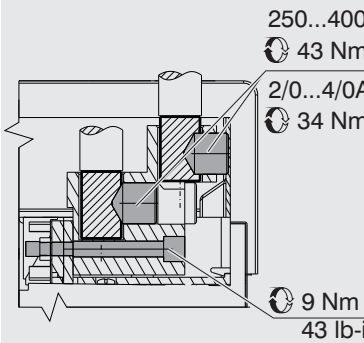
Terminali
Terminals
Anschlusse
Prises
Terminales
端子类型

Codici
Codes
Codes
Codes
Códigos
物料编号

Istruzioni d'installazione
Installation instructions
Installationsanleitung
Instructions pour l'installation
Instrucciones de instalación
安装说明

Dimensioni di ingombro
Overall dimensions
Abmessungen
Dimensions d'encombrement
Dimensiones generales
全部尺寸

F/W - FC CuAl
3x2/0AWG...400kcmil



250...400kcmil
43 Nm/380 lb-in

2/0...4/0AWG
34 Nm/301 lb-in

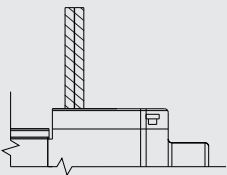
9 Nm
43 lb-in

1SDA113070R1	3pcs
1SDA113071R1	4pcs

1SDA113095R1	3pcs	Vaux
1SDA113096R1	4pcs	Vaux

[1SDH002012A1806](#) [1SDH002012A1107](#)

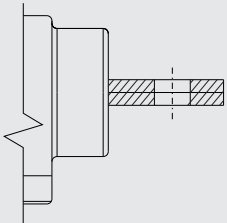
W - EF



1SDA104768R1	3pcs
1SDA104769R1	4pcs

[1SDH002012A1808](#) [1SDH002012A1115](#)

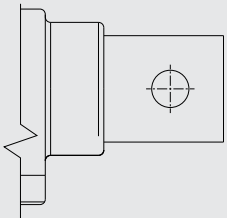
W - HR



1SDA104772R1	3pcs
1SDA104773R1	4pcs

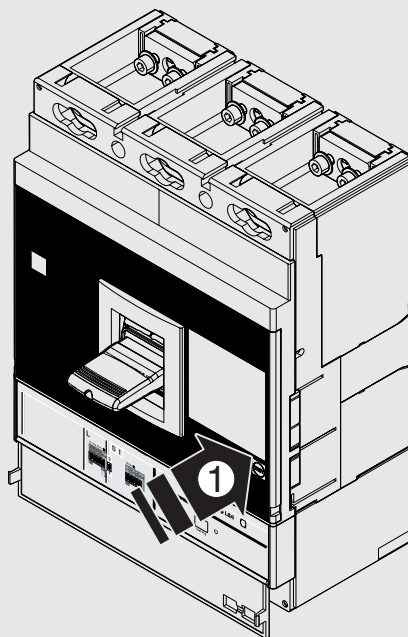
[1SDH002012A1808](#) [1SDH002012A1116](#)

W - VR

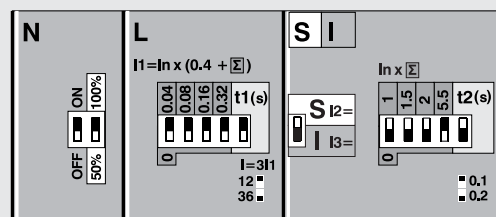
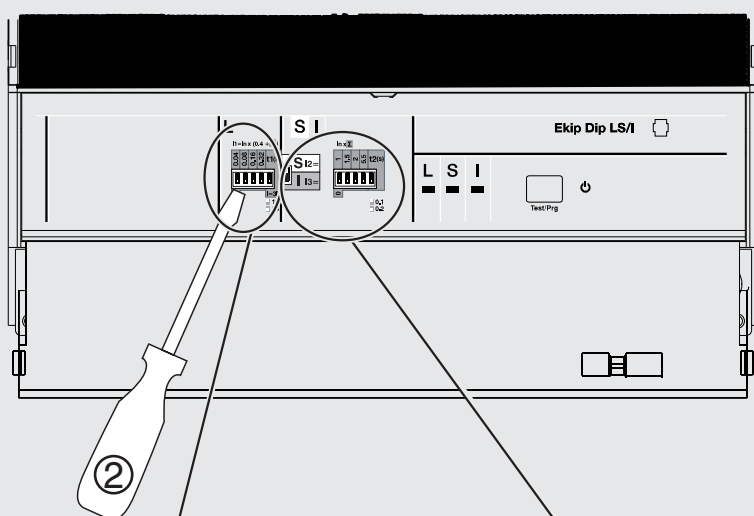


1SDA104782R1	3pcs
1SDA104783R1	4pcs

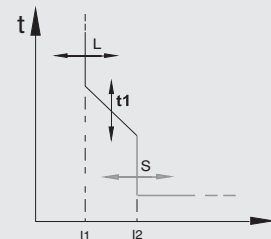
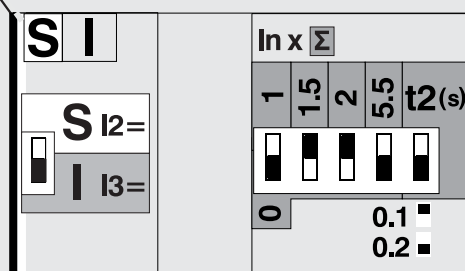
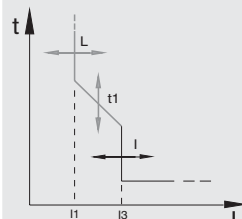
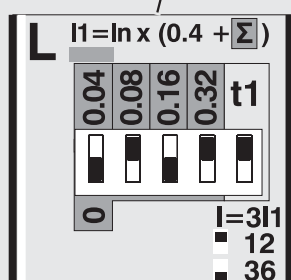
[1SDH002012A1808](#) [1SDH002012A1116](#)



LED	Color	CONDITION Run time
⏻	Green	LED ON (fixed) = Device active
L	Yellow	LED Fixed = L pre alarm ($0,9 \cdot I_1 < I < 1,2 \cdot I_1$)
L	Red	LED Blinking = L alarm ($I > 1,2 \cdot I_1$)
S	Red	LED Blinking = S alarm ($I > I_2$)
L S I	Red	LED Blinking = Parameters inconsistency - L = S or L = I. LED Blinking without Parameters inconsistency = generic fault (please contact ABB)

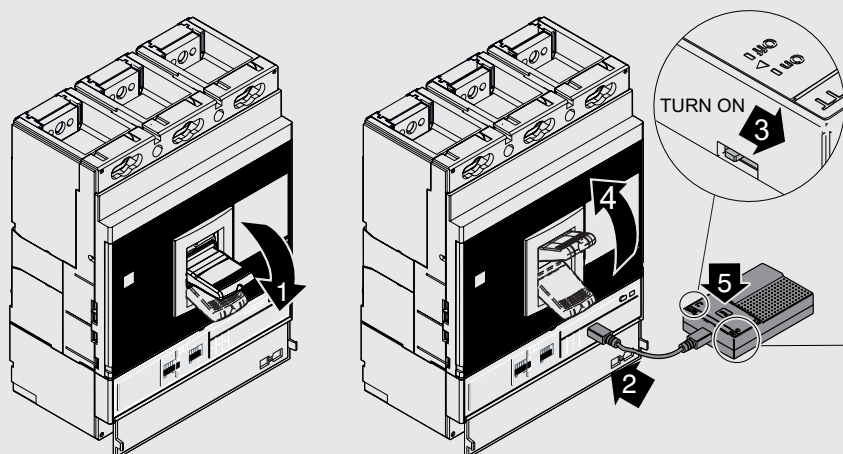


Settaggio di default
Default setting
Default-Einstellung
Configuration par défaut
Ajuste de default
默认设置



Esempio: $I_n = 800 \text{ A}$
Example: $I_1 = 800 \times (0,4 + 0,08 + 0,32) = 640 \text{ A}$
 $t_1 = 12 \text{ s @ } 1920 \text{ A (3I}_1)$

Esempio: $I_n = 800 \text{ A}$
Example: $I_2 = 800 \times (1,5 + 2) = 2800 \text{ A}$
 $t_2 = 0,2 \text{ s @ } I_n > I_2$



LED Ekip TT	
Verde Green Grün Vert Verde 绿	Rosso Red Rot Rouge Rojo 红
Dispositivo acceso Device ON Einrichtung eingeschaltet Dispositif allumé Dispositivo encendido 设备运行	Sostituire batterie Change battery Batterie ersetzen Remplacer batteries Sustituir baterías 更换电池

Per il trip test, prima di collegare l'interruttore all'impianto, eseguire la seguente procedura (in ogni caso, durante il trip test, sia il circuito primario che quello ausiliario devono essere NON attivi):

- 1) Mettere l'interruttore in posizione aperta
- 2) Inserire il cavo dell'unità TT
- 3) Accendere l'unità TT e verificare che il LED  di alimentazione sullo sganciatore di protezione sia acceso.

-Controllo LED:

- a) Se uno o più LED lampeggiano, fare riferimento alla tabella dei LED.
- b) Se tutti i led sullo sganciatore si accendono in sequenza: OK, pronto per trip test.
- 4) Chiudere l'interruttore.
- 5) Premere per 2 secondi il pulsante trip test dell'unità TT, l'interruttore esegue un trip.

-Scollegare il cavo dell'unità TT.

For the trip test, before connecting the circuit-breaker to the system, perform the following procedure (in any case, during the trip test, both the primary and the auxiliary circuits must be NOT active):

- 1) Put the circuit-breaker in open position
- 2) Insert the TT cable
- 3) Turn on the TT and check that the power LED  on the protection unit is on.

-LED control:

- a) If one or more LEDs are blinking, refer to the LED table.
- b) If all the LEDs on the release light up in sequence: OK, ready for trip test.
- 4) Close the circuit-breaker.
- 5) Press the trip test button on the TT for 2 seconds, the circuit-breaker performs a trip.

-Disconnect the TT cable.

Führen Sie für den Auslösetest das folgende Verfahren durch, bevor Sie den Leistungsschalter an die Anlage anschließen (während des Auslösetests dürfen in jedem Fall sowohl der Primär- als auch der Hilfsstromkreis NICHT aktiv sein):

- 1) Stellen Sie den Cricuit Breaker in die geöffnete Position
- 2) Das Kabel die Einheit TT einstecken
- 3) Schalten Sie die Einheit TT ein und sich vergewissern, dass die Power-LED  auf dem Schutzauslöser leuchtet.

-LED Kontrolle:

- a) Wenn eine oder mehrere LEDs blinken, ist Bezug auf die LED tabelle zu nehmen.
- b) Wenn alle LEDs auf dem Auslöser nacheinander aufleuchten: OK, bereit für den Auslösetest.
- 4) Den Leistungsschalter einschalten.
- 5) Die Taste Auslösetest am die Einheit TT für 2 Sekunden drücken, der Leistungsschalter führt eine Auslösung durch.

-Das Kabel die Einheit TT abtrennen.

Pour le test de déclenchement, avant de connecter le disjoncteur à l'installation, suivre la procédure ci-dessous

(dans tous les cas, pendant le test de déclenchement, aussi bien le circuit primaire que le circuit auxiliaire ne doivent PAS être actifs):

- 1) Mettre le disjoncteur en position ouverte
- 2) Brancher le câble de l'unité TT
- 3) Allumez l'unité TT et vérifier que la LED d'alimentation sur le déclencheur de protection est allumée.

-Contrôle des LED :

- a) Si une ou plusieurs LED clignotent, se reporter au tableau LED.
- b) Si toutes les LED sur le déclencheur s'allument en séquence : OK, prêt pour le test de déclenchement.
- 4) Fermer le disjoncteur.
- 5) Appuyer sur le bouton de test du déclenchement de l'unité TT pendant 2 secondes, le disjoncteur effectue un déclenchement.

-Débrancher le câble de l'unité TT.

Para el test de disparo, antes de conectar el interruptor a la instalación, realizar el siguiente procedimiento (durante la prueba tanto el circuito primario como el auxiliar deben estar siempre en estado NO ACTIVO):

- 1) Ponga el interruptor automático en posición abierta
- 2) Conectar el cable de la unidad TT
- 3) Encienda la unidad TT y verificar que el led de alimentación en el relé de protección esté encendido.

-Control del LED:

- a) Si uno o más LEDs parpadean, consulte la tabla LED.
- b) Si todos los LEDs en el relé se encienden secuencialmente: OK, está listo para el test de disparo.
- 4) Cerrar el interruptor.
- 5) Pulsar 2 segundos el botón de test de disparo de la unidad TT; el interruptor ejecuta un disparo.

- Desconectar el cable de la unidad TT.

进行脱扣测试时，先将断路器连接到设备上，然后执行以下程序（总之在脱扣测试期间，主回路和辅助回路都不能激活）：

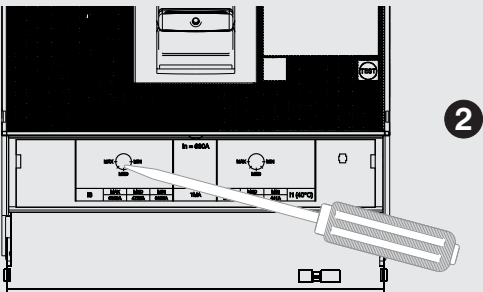
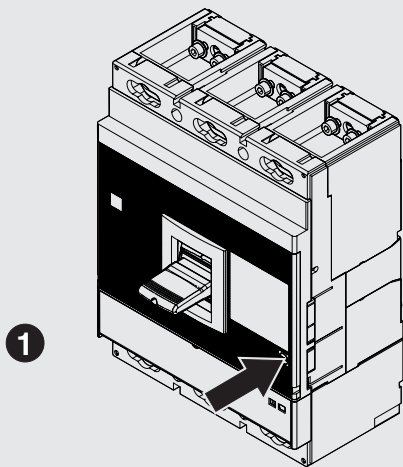
- 1) 将断路器置于断开位置
- 2) 插入TT电线。
- 3) 开启TT，检查脱扣保护装置上的LED 灯是否点亮

- 检查LED灯：

- a) 如果一盏或多盏LED闪烁，请参考表 LED。
- b) 如果脱扣保护装置上的LED灯依次点亮：说明已准备好进行脱扣测试。
- 4) 关闭断路器。
- 5) 按住TT的脱扣测试按钮2秒钟，断路器就会执行一次脱扣。

- 断开TT的电线。

- Mettere l'interruttore in posizione Trip test prima di regolare il termomagnetico.
- Turn the circuit breaker to Trip test mode before adjusting the thermomagnetic release.
- Der Leistungsschalter muss vor Einstellung des thermomagnetischen Auslösers zwingend in die Prüfstellung geschaltet werden.
- Mettre le disjoncteur en position de Test de Déclenchement avant de régler le déclencheur magnétothermique.
- Situar el interruptor en posición "Test de Disparo" antes de realizar el ajuste del relé termomagnético.
- 调整热磁脱扣器前必须使开关处于跳扣状态



		I1		
	In	MIN (0,7×In)	MED (0,85×In)	MAX (1×In)
TMA	600	420	510	600
	800	560	680	800

		I3		
	In	MIN (5×In)	MED (7,5×In)	MAX (10×In)
TMA	600	3000	4500	6000
	800	4000	6000	8000