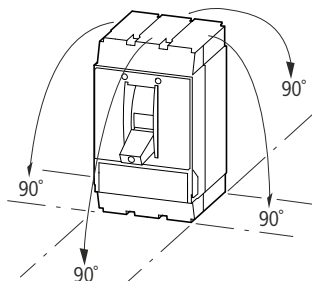
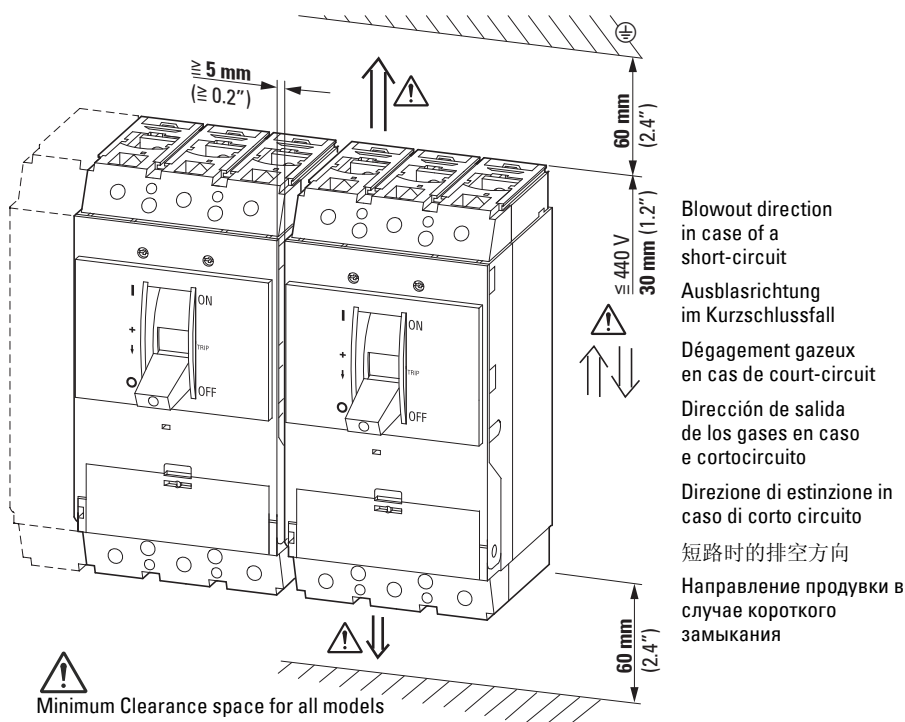


NZMN(H)(L)3(-4)-AE(VE)(ME)...(-T)
NZMB(C)(N)(S)(H)3(-4)-A(S)
(P)N3-...
+NZM3(-4)-XT



NZMN(H)(L)3-AE(AEF)...-NA
NZMN(H)(L)3-VE(VEF)...-NA
NZMN(H)(L)3-SE...-CNA
N(S)3-...-NA
NZMB(N)(H)3-A(-AF)...(-BT)-NA
NZMB(N)(H)3-S...(-BT)-CNA



Minimum Clearance space for all models



(en) Electric current! Danger to life!

Only skilled or instructed persons may carry out the following operations.

(de) Lebensgefahr durch elektrischen Strom!

Nur Elektrofachkräfte und elektrotechnisch unterwiesene Personen dürfen die im Folgenden beschriebenen Arbeiten ausführen.

(fr) Tension électrique dangereuse !

Seules les personnes qualifiées et averties doivent exécuter les travaux ci-après.

(es) ¡Corriente eléctrica! ¡Peligro de muerte!

El trabajo a continuación descrito debe ser realizado por personas cualificadas y advertidas.

(it) Tensione elettrica: Pericolo di morte!

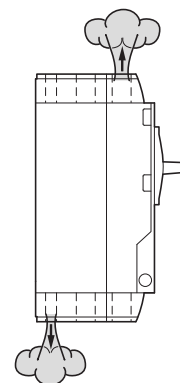
Solo persone abilitate e qualificate possono eseguire le operazioni di seguito riportate.

(zh) 触电危险!

只允许专业人员和受过专业训练的人员进行下列工作。

(ru) Электрический ток! Опасно для жизни!

Только специалисты или проинструктированные лица могут выполнять следующие операции.



Blowout direction
in case of a
short-circuit

Ausblasrichtung
im Kurzschlussfall

Dégagement gazeux
en cas de court-circuit

Dirección de salida
de los gases en caso
e cortocircuito

Direzione di estinzione in
caso di corto circuito

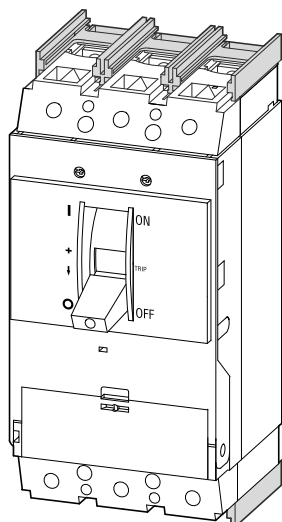
短路时的排空方向

Направление продувки в
случае короткого
замыкания

-NA

-CNA

(UL/CSA models)



(en) Caution!

The removal or exchange of parts during mounting may become necessary.
Refer to installation instructions for proper assembly and to maintain electrical clearances.



(de) Vorsicht!

Für die Durchführung der beschriebenen Arbeiten kann das Entfernen oder der Austausch von Teilen notwendig sein. Bitte alle Installations-Anweisungen beachten, um die erforderlichen Luft- und Kriechstrecken nach dem Zusammenbau zu gewährleisten.



(fr) Attention !

L'enlèvement ou l'échange de certaines pièces pendant le montage est parfois nécessaire. Consultez l'instruction d'assemblage pour assurer une installation conforme aux normes.



(es) Atención!

Con el fin de llevar a cabo los trabajos descritos, puede ser necesario eliminar o cambiar alguna pieza. Le rogamos tenga en cuenta todas las instrucciones de instalación para así garantizar las líneas de fuga y eflujo necesarias tras el montaje.



(it) Attenzione!

Per l'esecuzione degli interventi descritti potrebbe essere necessaria la rimozione o sostituzione di alcuni pezzi. Attenersi alle istruzioni d'installazione per garantire dopo l'assemblaggio le vie di dispersione necessarie.



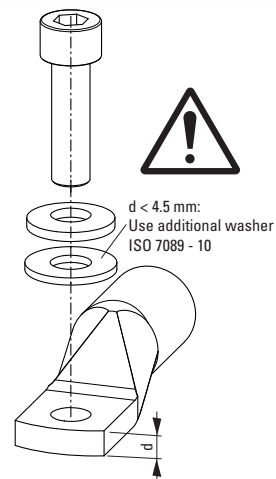
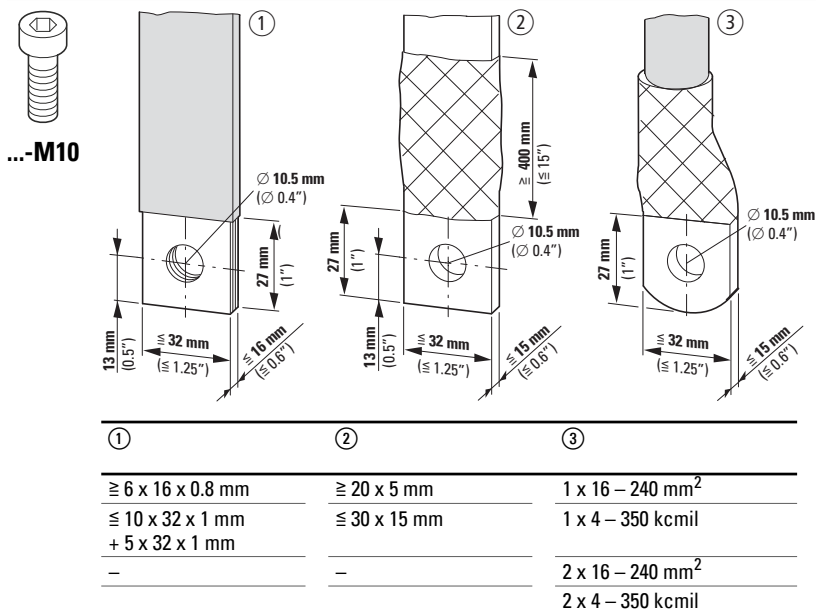
(zh) 小心!

执行所描述的操作时可能需要拆除或更换零部件。
请遵守所有相关的安装说明，
以确保在组装后能获得需要的空间距离或爬电距离。



(ru) Внимание!

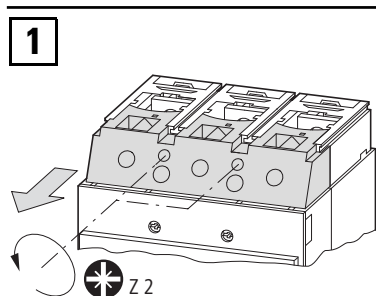
При проведении описанных процедур может возникнуть необходимость демонтировать или заменить детали. Для обеспечения надлежащих зазоров и вывода тока утечки, соблюдайте все инструкции по монтажу.



n		n = Number of crimps
		n = Anzahl der Pressungen
		n = Nombre de sertissages
		n = Número de compresiones
		n = Numero delle crimpature
		n = 压制数量
		n = Число прессований
2	NZM3-XKS185	
4	NZM3-XKS240	

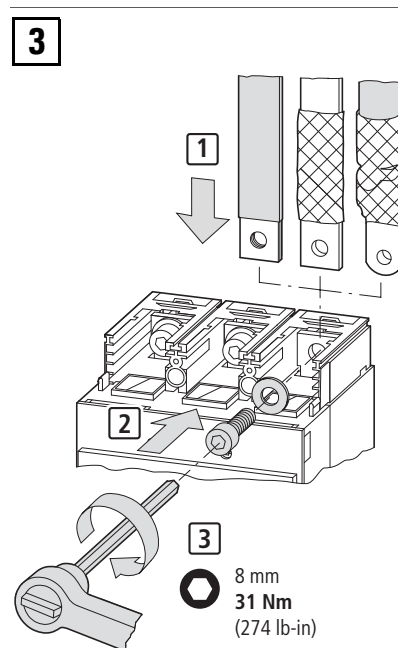
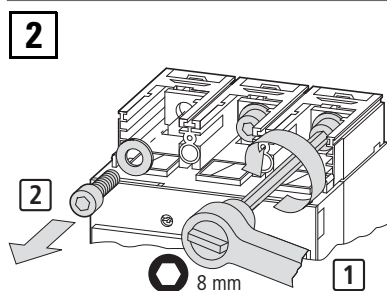
A		
185 mm ²	NZM3-XKS185	
240 mm ²	NZM3-XKS240	

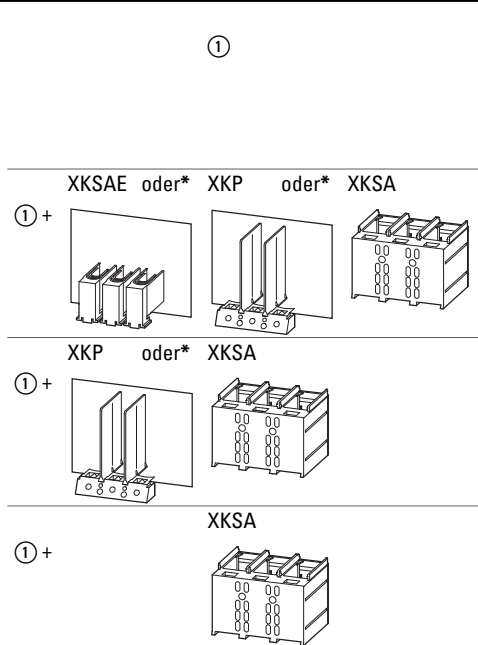
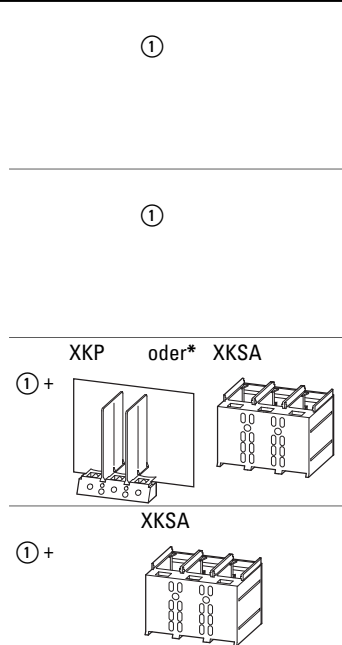
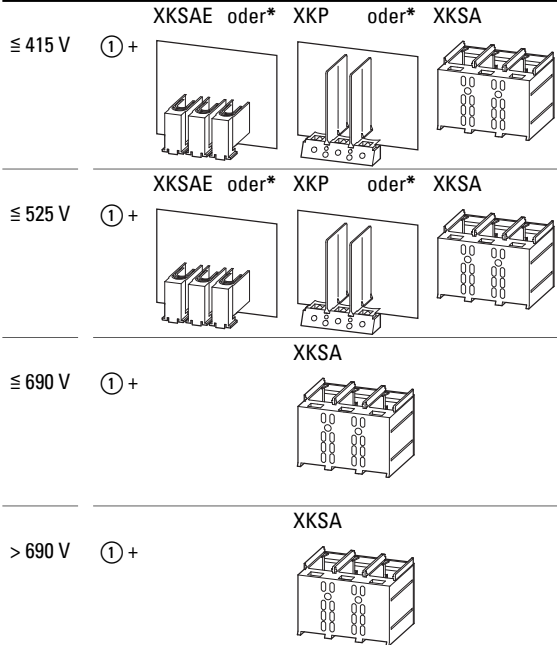
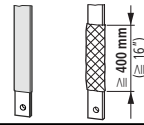
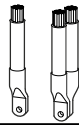
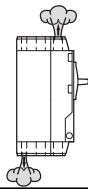
3pol	M10 x 35
4pol	



UL/CSA models:

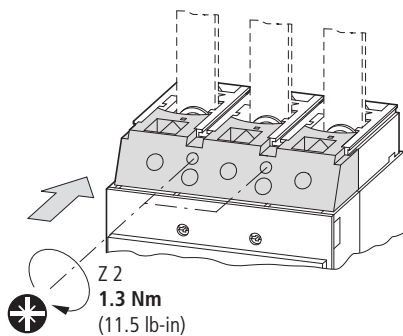
Follow diagrams below when making connections using XKS screw terminations for compression crimp lugs:
 – Always use terminal cover NZM3-XKSA when making connections with bare bus or non-insulated crimp lugs, or when two wires per phase are connected.
 To mount terminal cover NZM3-XKSA, refer to instruction sheet IL01208010Z (former AWA1230-2048).





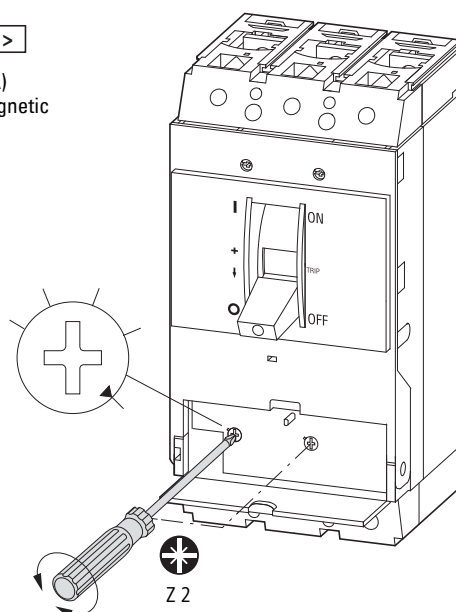
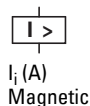
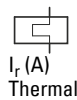
- ① Basic device – Grundgerät – Appareil de base – Aparato base – Apparechio base – 基础设备 – Основное устройство
 + Combination options – Kombinationsmöglichkeiten – Combinaisons possibles – Combinaciones posibles – Combinazioni possibili
 组合方法 – Комбинационные возможности
 * or – oder – ou – ó – oppure – 或者 – или

4

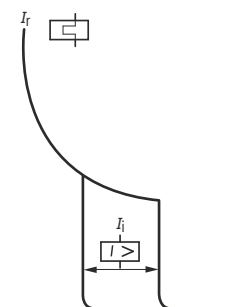


5

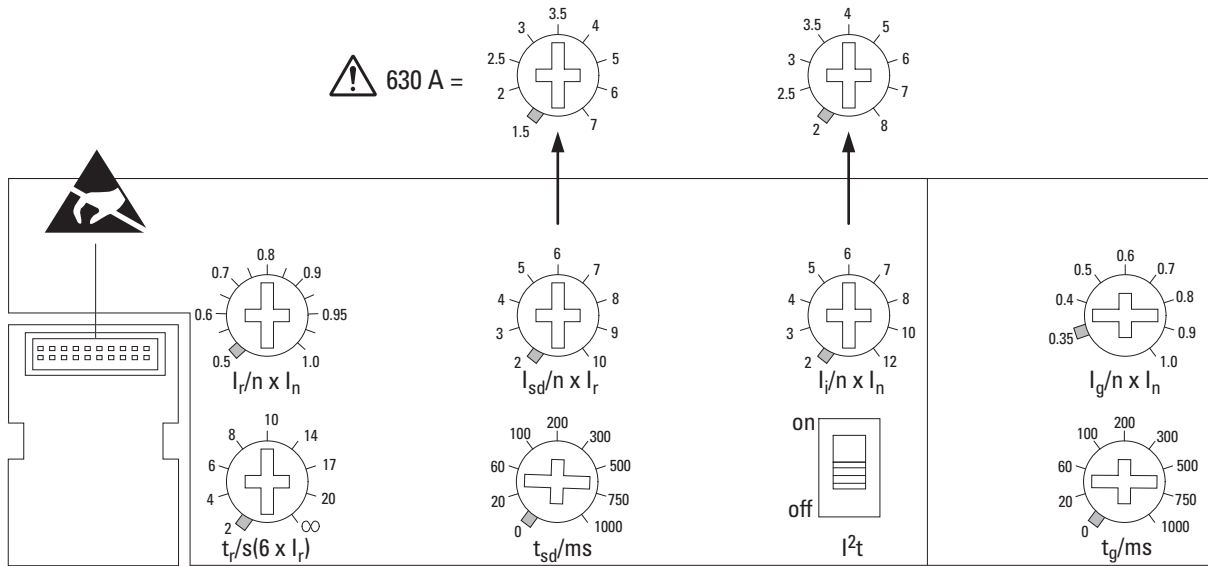
NZMB(C)(N)(H)3(-4)-A(S)
 NZM...3-A(AF)...-NA
 NZM...3-S...-CNA



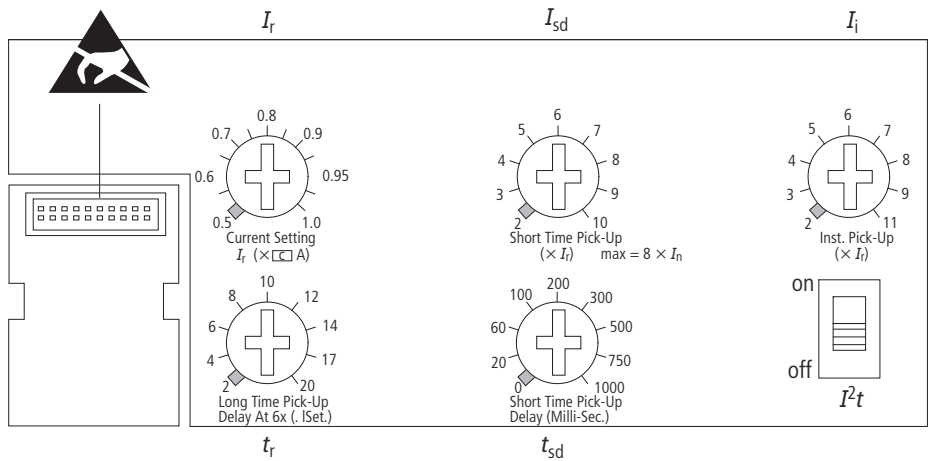
Note: On certain models with UL/CSA labeling the thermal trip setting is fixed and only the magnetic trip (instantaneous) setting is adjustable.



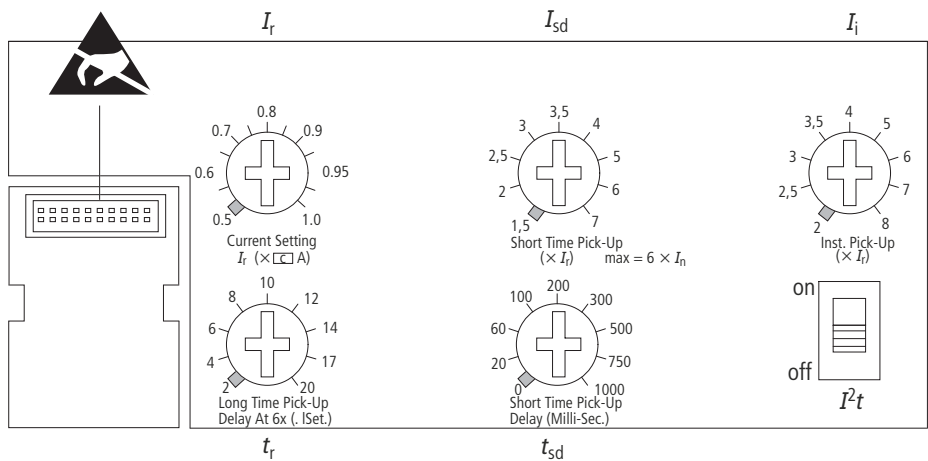
Setting I_i with DC = setting I_i AC/1.45
 Einstellwert I_i bei DC = Einstellwert I_i AC/1,45
 Valeur de réglage I_i avec DC = valeur de réglage I_i AC/1,45
 Valor de respuesta I_i con DC = valore de respuesta I_i AC/1,45
 Valore di regolazione I_i con DC = valore di regolazione I_i AC/1,45
 DC 的设置值 I_i = AC/1.45 的设置值 I_i
 Значение I_i при постоянном токе = I_i при переменном токе /1.45



-NA, -CNA Electronic Trip Circuit Breaker Adjustable Settings (UL/CSA models)
250...400 A

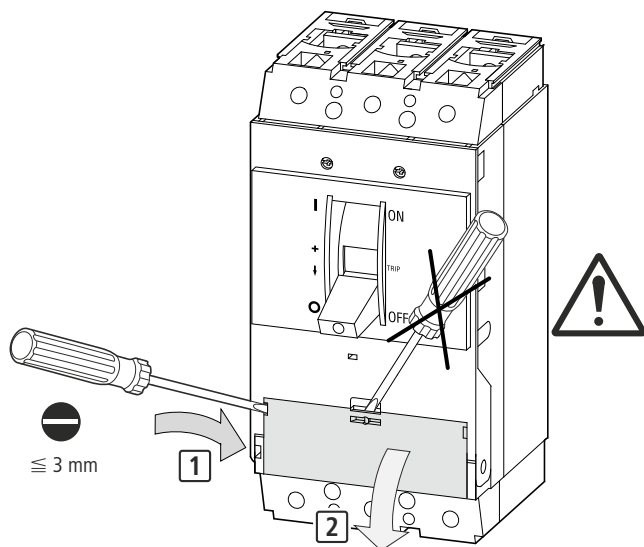


450...600 A

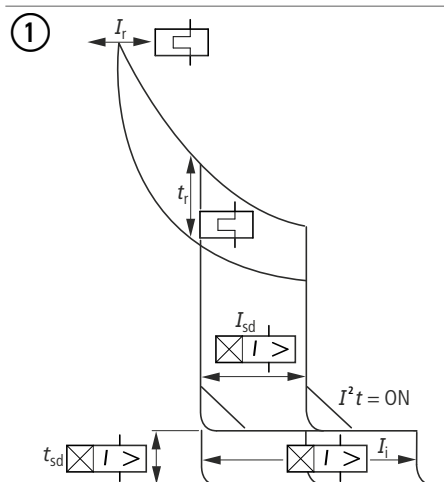
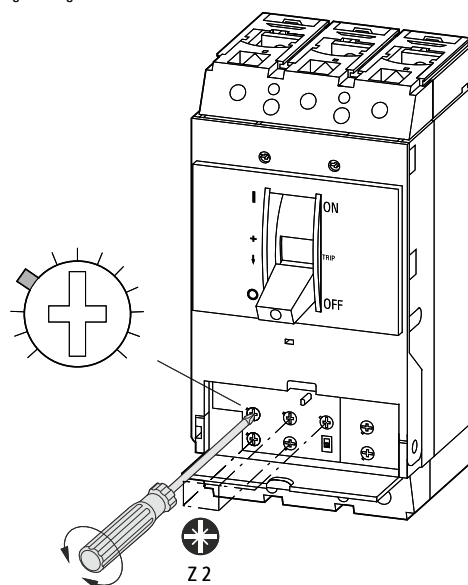


	Current setting I_r (x c A)	Long Time Pick-Up Delay at 6 x I_r (sec)	Short Time Pick-Up (x I_r)	Short Time Pick-Up Delay (milli-sec.)	Inst. Pick-Up (x I_n)	I^2t
NZM3-VE...-NA	X	X	X	X	X	X
NZM3-VEF...-NA	Fixed current Rating	X	X	X	X	X
NZM3-AE...-NA	X	—	—	—	X	—
NZM3-AEF...-NA	Fixed current Rating	—	—	—	X	—
NZM3-SE...-CNA	—	—	—	—	X	—

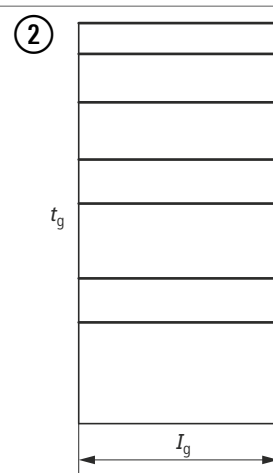
1 Settings – Einstellung – Réglages – Parámetros – Regolazione – 设置 – Настройка



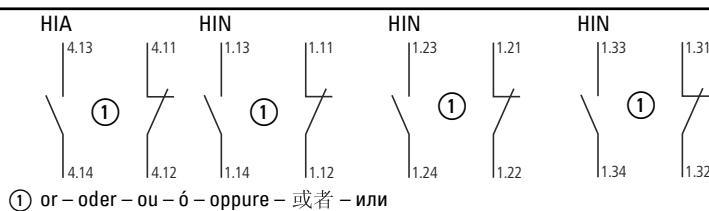
2 I_r (A), t_r (s), I_{sd} (A), t_{sd} (ms) I_i (A) I^2t ON/OFF I_g (A), t_g (ms)



$(I_n = \text{Max. current rating})$
 $I_r = \text{Adjustable current setting } (0.5 - 1.0 \times I_n) \text{ for Long Time Pick-up.}$
 $t_r = \text{Adjustable Long Time Pick-up Delay } (2 - 20 \text{ sec.})$
 factory set at 10 seconds.
 $I_{sd} = \text{Adjustable Short Time Pick-up } (2 - 10 \times I_r) \text{ factory set at } 6 \times I_r.$
 (NZM...3-VE600-NA: $1.5 - 7 \times I_r$ factory set at $6 \times I_r$).
 $t_{sd} = \text{Short-Time Pick-up Delay } (0 - 1000 \text{ ms}) \text{ factory set at } 0 \text{ ms.}$
 $I_i = \text{Instantaneous Pick-up } (2 - 12 \times I_n) \text{ factory set at } 12 \times I_n.$
 NZM3-VE250/400-NA: $(2 - 11 \times I_n)$ factory set at $11 \times I_n.$
 NZM3-VE600-NA: $(2 - 8 \times I_n)$ factory set at $8 \times I_n.$
 I^2t function switch = factory set to OFF.



M22-K10 M22-K01 M22-CK10 M22-CK01 Auxiliary Switches



IEC  $I_{th} = I_e$		
	U_e (V)	I_e (A)
AC-15	115	4
	230	4
	400	2
	500	1
DC-13	24	3
	42	1.7
	60	1.2
	110	0.6
	220	0.3

Notes on mounting and wiring Auxiliary Switches for UL/CSA labeled models:

- M22-K(10)(01) have screw terminals. M22-CK(10)(01) have clamp terminals
- Switch modules are snapped into place at the locations shown in the diagrams that follow.
- Switches will function as either „standard“ or „trip/alarm“ contacts depending on their mounting location.
- Location „HIN“ refers to standard operation. Location „HIA“ refers to „trip/alarm“ operation.
- Follow the numbering and wiring scheme provided above depending on the contact location and function. (N.O. or N.C.)

Permissible contact configuration: 1 x HIA and/or 3 x HIN.

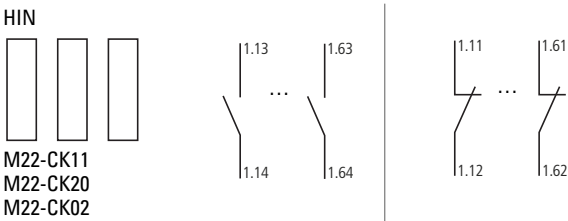
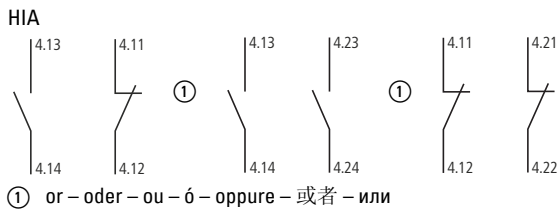
Note:

After mounting of the M22... switch is complete, check off the appropriate box on the auxiliary switch label provided on the side of the breaker or switch.

-NA -CNA (UL/CSA)  $I_{th} = I_e$		
	U_e (V)	I_e (A)
600 AC	600 AC	5
	250 DC	1

Pilot Duty Ratings:
 B 600, Q 300
 Above 300 V AC
 Same polarity

M22-CK11
M22-CK20
M22-CK02



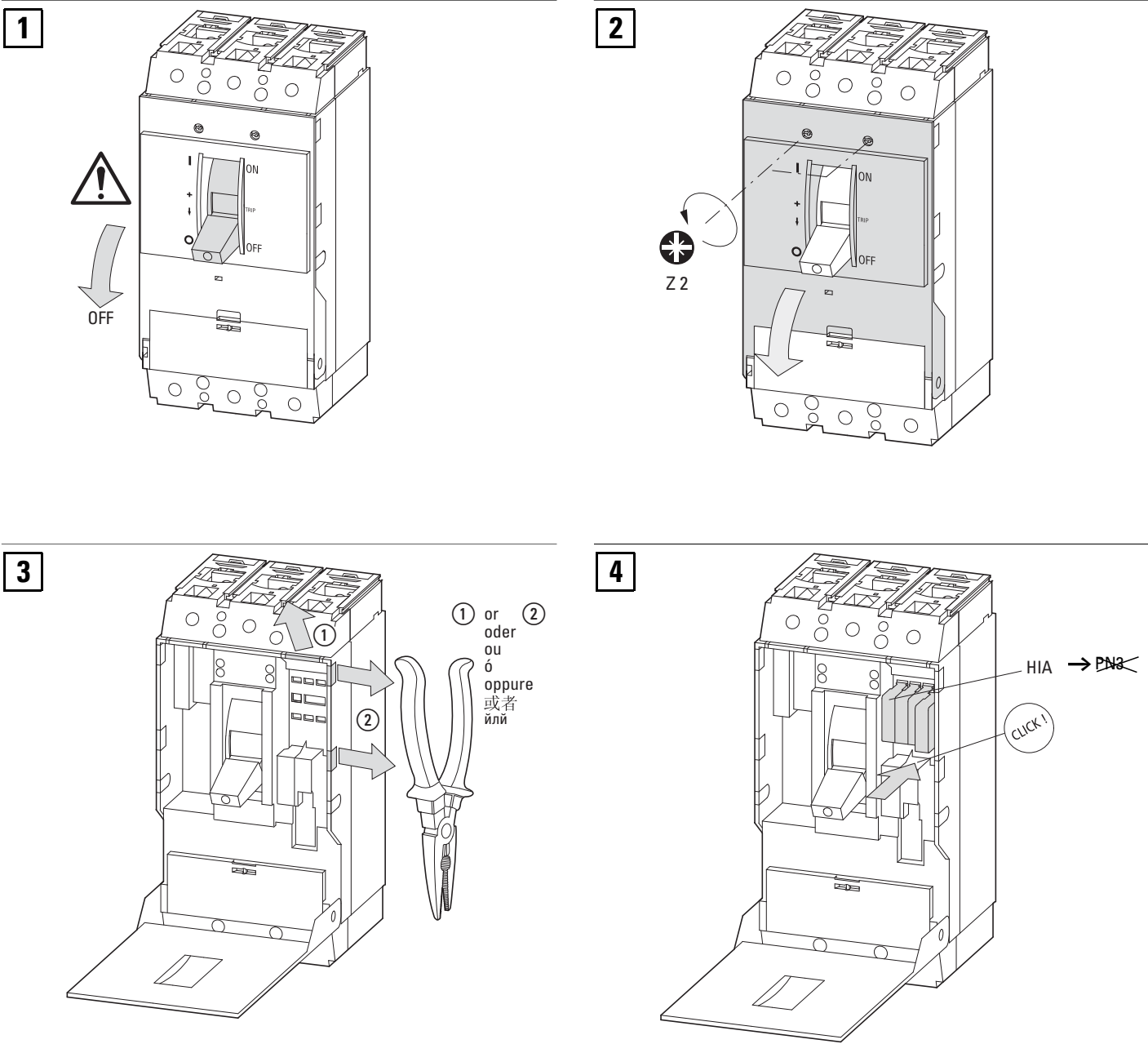
IEC



$I_{th} = I_e$

	U_e (V)	I_e (A)
AC-15	115	4
	230	4
DC-13	24	3
	42	1
	60	0.8
	110	0.5
	220	0.2

Mounting – Montage – Montage – Montaje – Montaggio – 安装 – Монтаж



11/15 IL01208009Z

5a

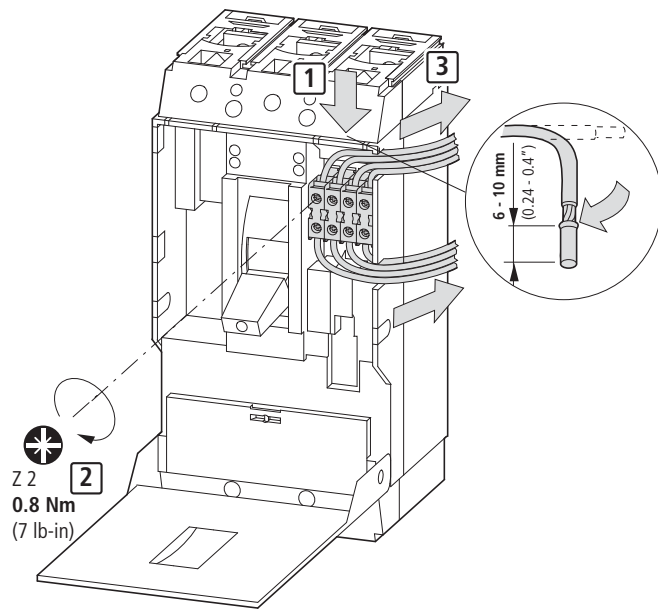
M22-K10, M22-K01

(Screw Terminals)

...K10: N. O. Contact

...K01: N. C. Contact

	2 x 0.75 – 2.5 mm ²
	2 x AWG 18 – AWG 14
	
UL/CSA = Cu only	

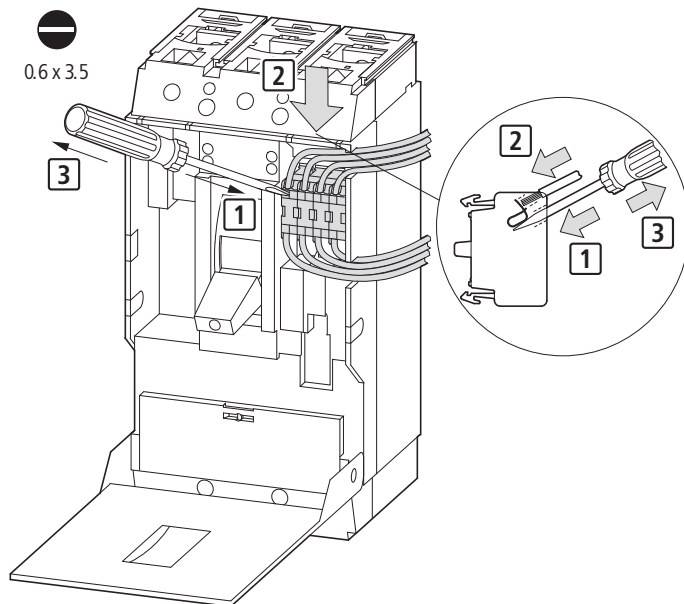


5b

M22-CK10, M22-CK01

(Clamp Terminals)

	2 x 0.75 – 2.5 mm ²
	2 x AWG 18 – AWG 14
	
UL/CSA = Cu only	

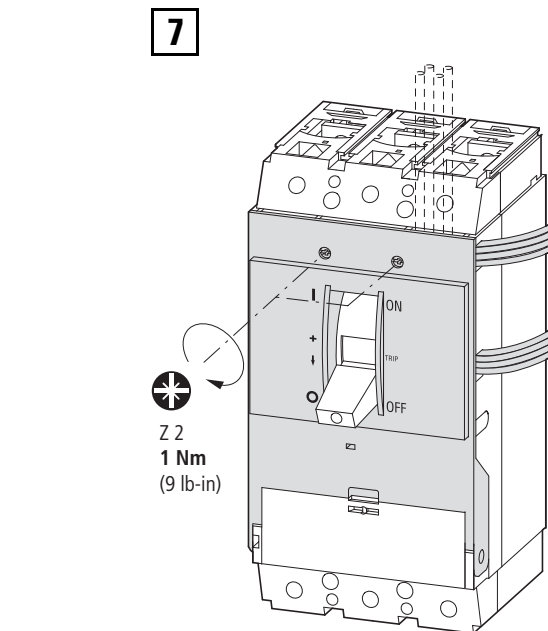


5c

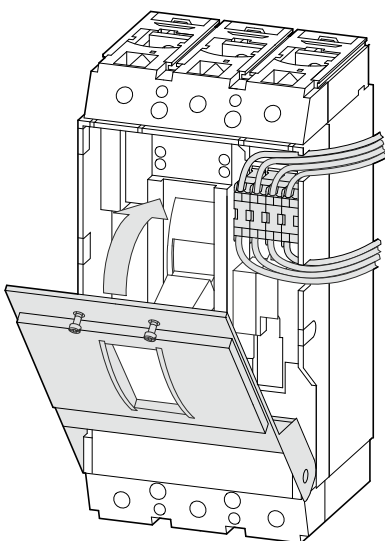
M22-CK11, M22-CK20, M22-CK02

(Clamp Terminals)

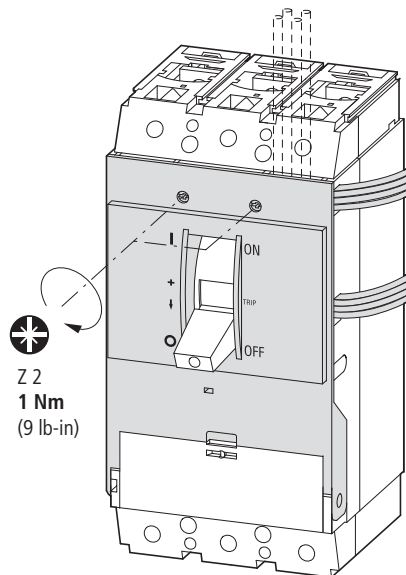
	a = 8 mm (a = 0.32")
	1 x 0.5 – 1.5 mm ²
	1 x AWG 20 – AWG 16
	2 x 0.5 – 0.75 mm ²
	2 x AWG 20 – AWG 18



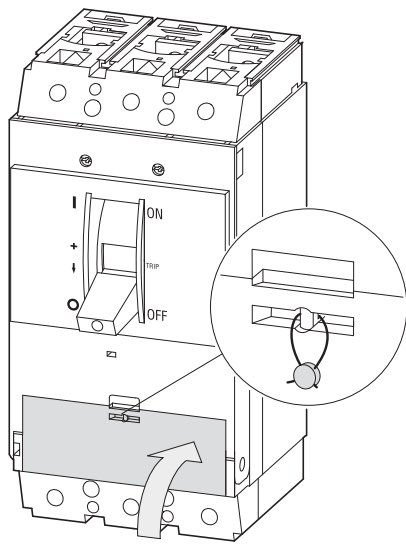
6



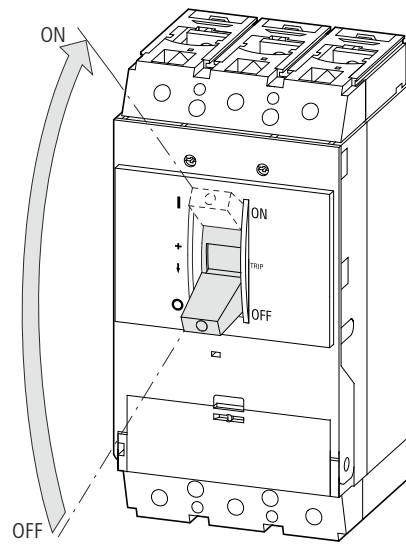
7



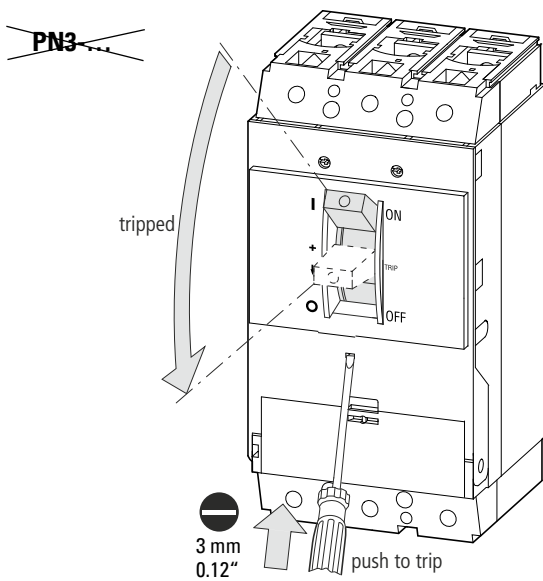
11/15 IL01208009Z



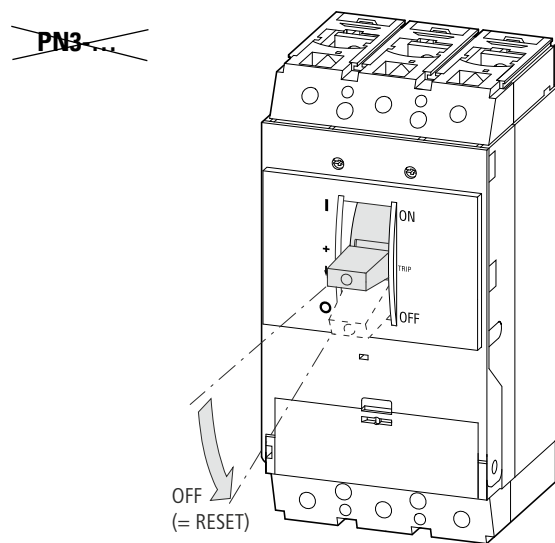
TEST 1



TEST 2

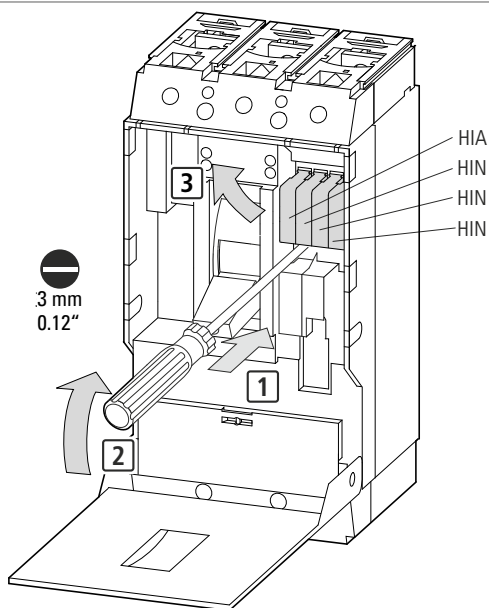


TEST 3

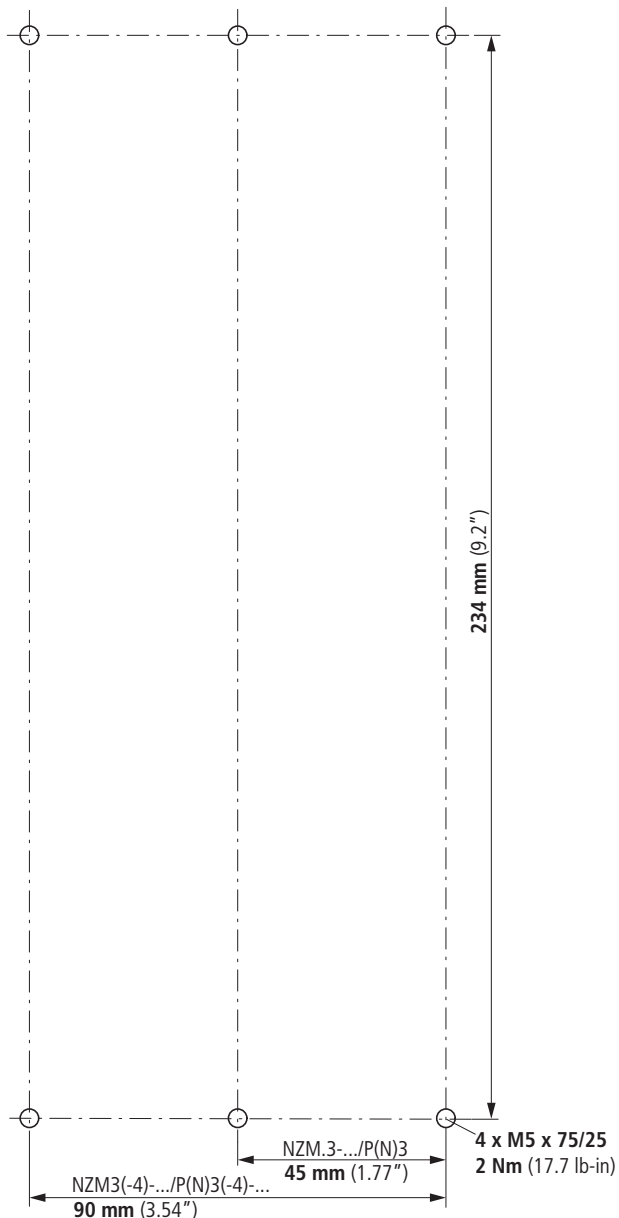


Dismounting – Demontage – Démontage – Desmontaje – Smontaggio – 拆卸 – Демонтаж

1



11/15 IL01208009Z



Wiring terminations circuit breaker type NZM...3...-NA (CNA)
Wiring terminations molded case switch type NS3...-NA

Connector Type	Wire size	Wire 75° C	Max. A-Rating	Tightening-Torque
1) Bolt on			600	31 Nm (275 lb-in)
NZM3-XKA2	2 x AWG 1/0 – 500 kcmil	Cu only	400	31 Nm (275 lb-in)
NZM3-XKC	1 x AWG 1/0 – 500 kcmil	Cu only	400	19 Nm (168 lb-in)
2) integrated Auxiliary Terminal	1 x AWG 12 – 18	Cu only		1.2 Nm (11 lb-in)

- 1) Connector Pads Type NZM3-XKS for Compression Crimp lugs supplied standard on all NZM3 circuit breakers and switches.
- 2) Integrated Auxiliary Terminal on Barrel (Tunnel) Mechanical lug Connector Type NZM3-XKA(1)(2) only.