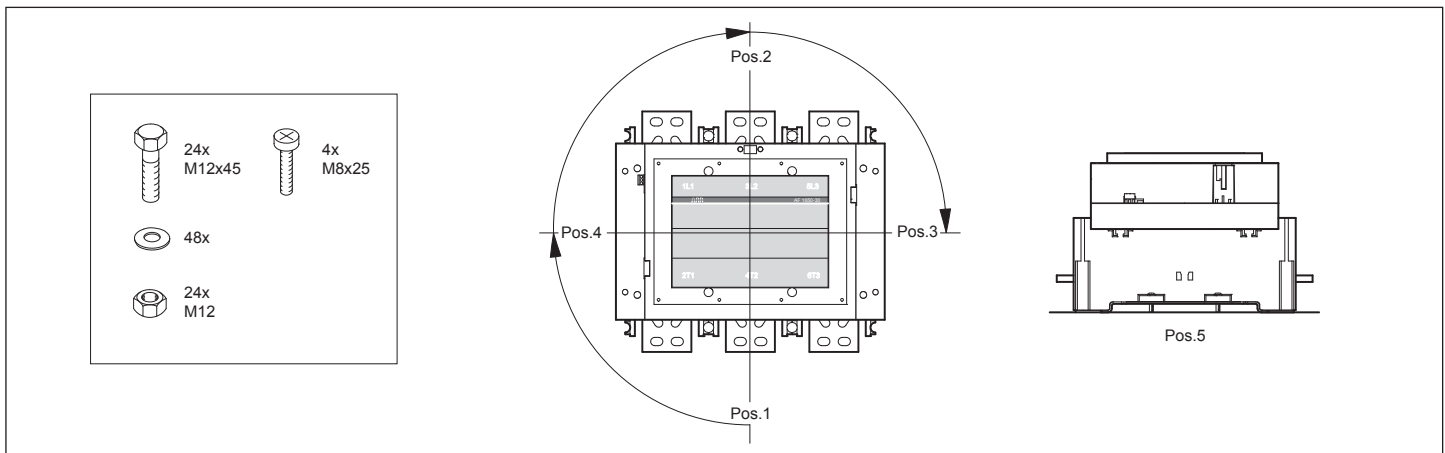
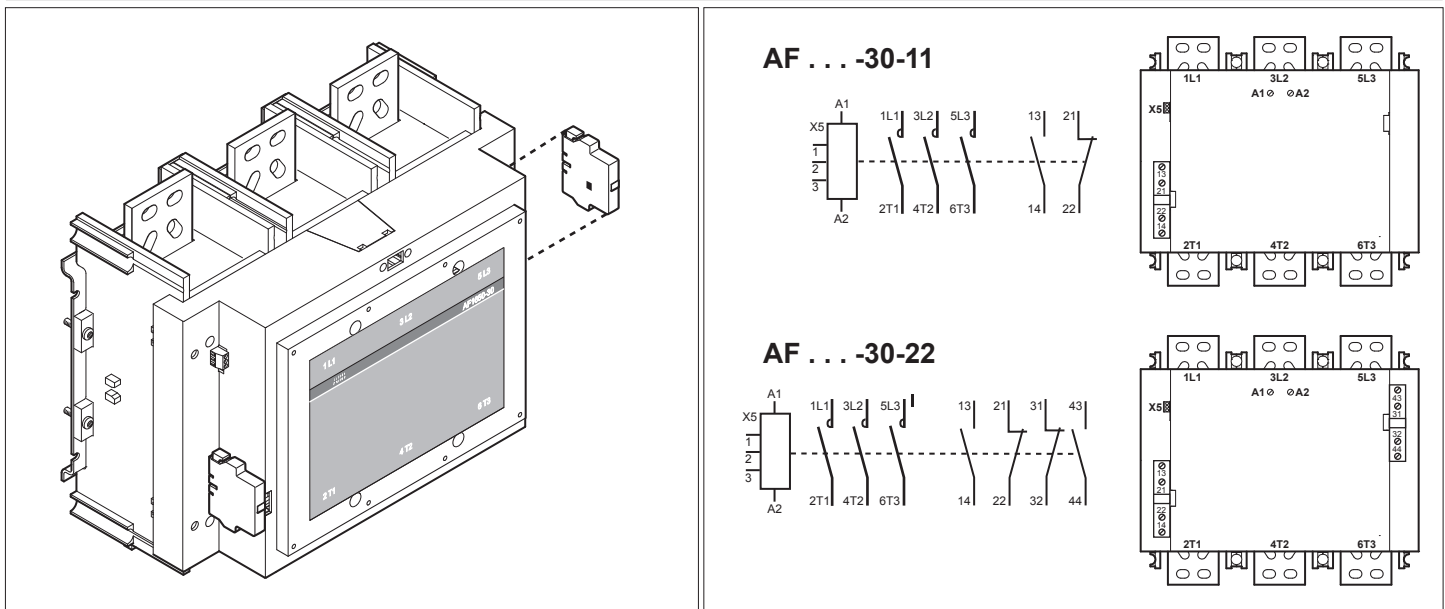


AF 1350, AF 1650, AF 2050

1SFC101002M5501, 1(6), ed.E, May 2008

Contactors
Schütze
Contacteurs
Kontaktorer
Contattori
Contactores
Kontaktori

Operating instructions
Betriebsanleitung
Notice d'instructions
Instruktion
Istruzioni tecniche
Instrucciones de empleo
Ohje



According to UL 508: For AF1350 and AF1650 Enclosure with three latches and with min. dimension 78 by 62 by 24 inches should be used.
For AF2050 Enclosure with three latches and with min. dimension 78 by 110 by 24 inches should be used.

Warning! The operation, installation and servicing of this product must be carried out by a qualified electrician, following installation standards and safety regulations. Before operating the contactor, make sure that the control voltage supply corresponds with the coil marking. Wrong control voltage can damage the coil. Do not touch live parts. Danger!

Warnung! Die Inbetriebnahme und die Installation des vorhandenen Gerätes sowie jegliche Wartungsarbeiten müssen durch einen Fachelektriker, der die anerkannten technischen Regeln, die Montagenormen und die Sicherheitsvorschriften beachtet, durchgeführt werden. Vor Inbetriebnahme der Schütze prüfen ob Steuerspannung am Verwendungsort mit den aufgedruckten Spulendaten übereinstimmt. Der Anschluss einer anderen Steuerspannung kann zur Zerstörung der Spule führen. Spannung führende Teile nicht berühren. Lebensgefahr!

Attention! La mise en œuvre et l'installation de cet appareil et toute intervention doivent être effectuées par un électricien professionnel appliquant les normes d'installation et les règlements de sécurité. Avant la mise en marche des contacteurs, vérifier que la tension du circuit de contrôle correspond bien aux indications de la bobine. Le raccordement d'une tension différente peut mener à une destruction de la bobine. Ne pas toucher les pièces sous tension. Danger de mort!

Warning! Igångsättning och installation av apparaten samt alla ingrepp bör utföras av en kompetent elektriker enligt alla gällande installationsnormer och säkerhetsregler. Kontrollera före installation av kontaktorn att aktuell manöverspänning överensstämmer med spolens märkdata. Felaktig manöverspänning kan skada spolen. Beröring av spänningsförande delar är förenat med livsfara.

Attenzione! La messa in opera, l'installazione di questo apparecchio ed ogni tipo di intervento devono essere effettuati da un elettricista professionista il quale applichi le regole del mestiere, le norme di installazione ed i regolamenti di sicurezza. Prima della messa in servizio del contattore, verificare che la tensione del circuito di comando corrisponda esattamente a quella indicata sulla bobina. L'alimentazione con una tensione diversa, può provocare la distruzione della bobina. Non toccare le parti attive. Pericolose di vita!

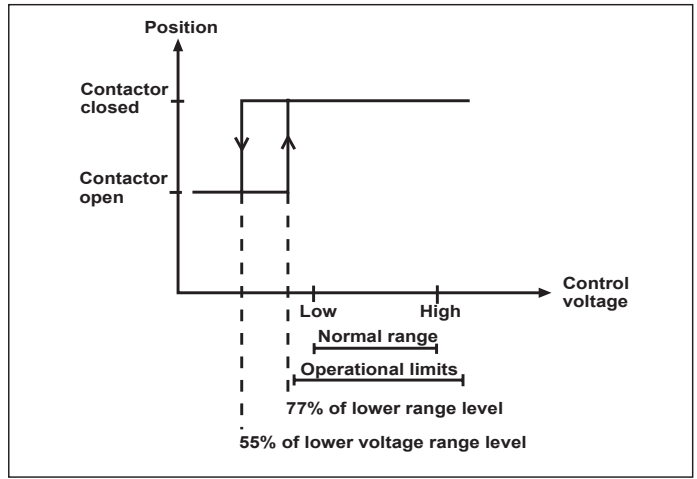
Atención! La puesta en aplicación, la instalación de este aparato y cualquier intervención deben realizarse por un electricista profesional que aplique las reglas del oficio las normas de instalaciones y la reglamentación de seguridad. Antes de la puesta en servicio del contactor, comprobar si coinciden la tensión de mando con los datos impresos en la bobina. La conexión de otra tensión de mando puede producir la destrucción de la bobina. Las partes bajo tensión no deben tocarse. Peligro de muerte!

General

AF-Contactors are fitted with an electronic coil interface. For a given coil, this interface allows the contactor to accept a very wide voltage range. The Contactor can also be controlled by separate logic control signals from for instance a PLC. Selection of control method is done with switch S1. Control by switching voltage on A1 and A2 requires the switch in position B while control with logic signals requires the switch in position A. Use of the logic control signals also requires a steady supply voltage on A1 and A2 within the rated voltage range.

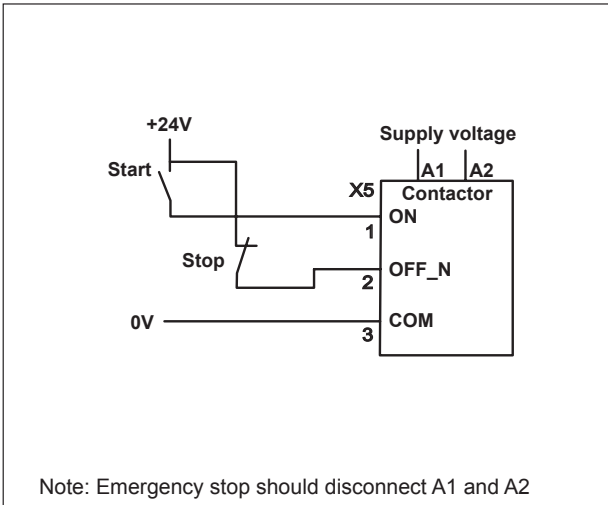
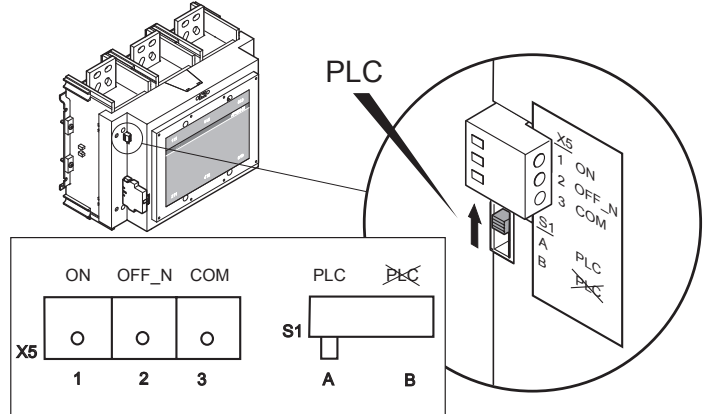
Control by switching voltage on A1 and A2 (switch S1 in position B, default factory setting).

Operation of AF-Contactors can be done as with conventional contactors by applying and removing voltage on A1 and A2.



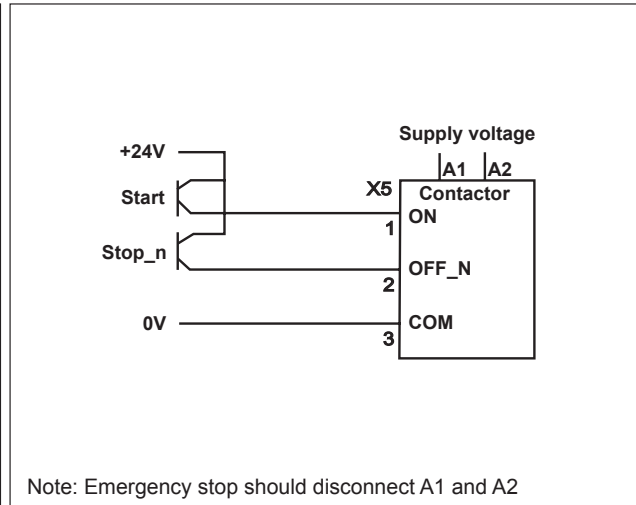
Control with logic control signals (switch S1 i position a)

Use of the logic control signals also requires a steady voltage on terminals A1 and A2 within the operational limits. Minimum pulse length for opening and closing: 7 ms. The function of the logic control signals will no longer be guaranteed when the voltage on A1 and A2 is removed. The logic control signals operates with 24 V DC and consist of two control signals (ON and OFF_N) and a common reference (COM).



Note: Emergency stop should disconnect A1 and A2

When used with switches the wiring can be done according to the following diagram.



Note: Emergency stop should disconnect A1 and A2

When used with transistor outputs the wiring can be done according to the following diagram.

The functions are described with following diagram. "1" means 24 V DC between the control signal and COM, "0" means no voltage between the control signal and COM. The function is made so that ON and OFF_N can be connected in parallel for a common ON/OFF signal. In addition to these signals the function limits for the supply voltage are still valid (closing at 77% and opening at 55%), which is indicated in the diagram by high and low voltage.

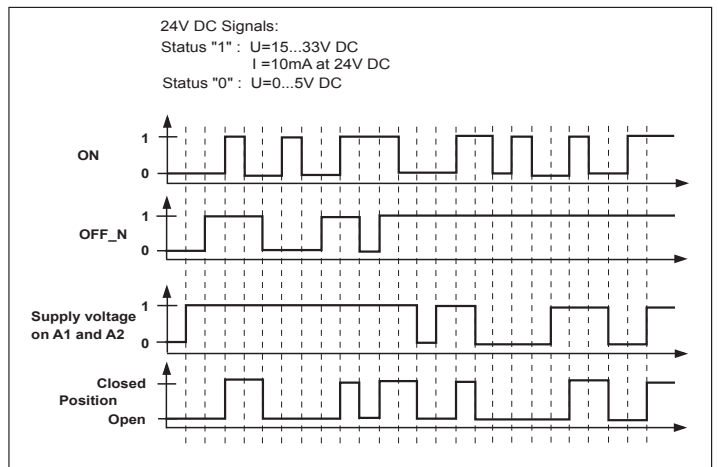
AF-Contactors comply with international standards IEC 947-1, 947-4-1 and European standards EN 60 947-4-1. Moreover, in environment 2, they meet the electromagnetic compatibility rules (EMC):



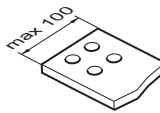
Using these materials in environment 1 may lead to radio-interferences requiring the use of additional mitigation methods.



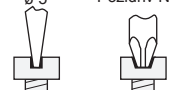

Here are the definitions given in the above mentioned standards.

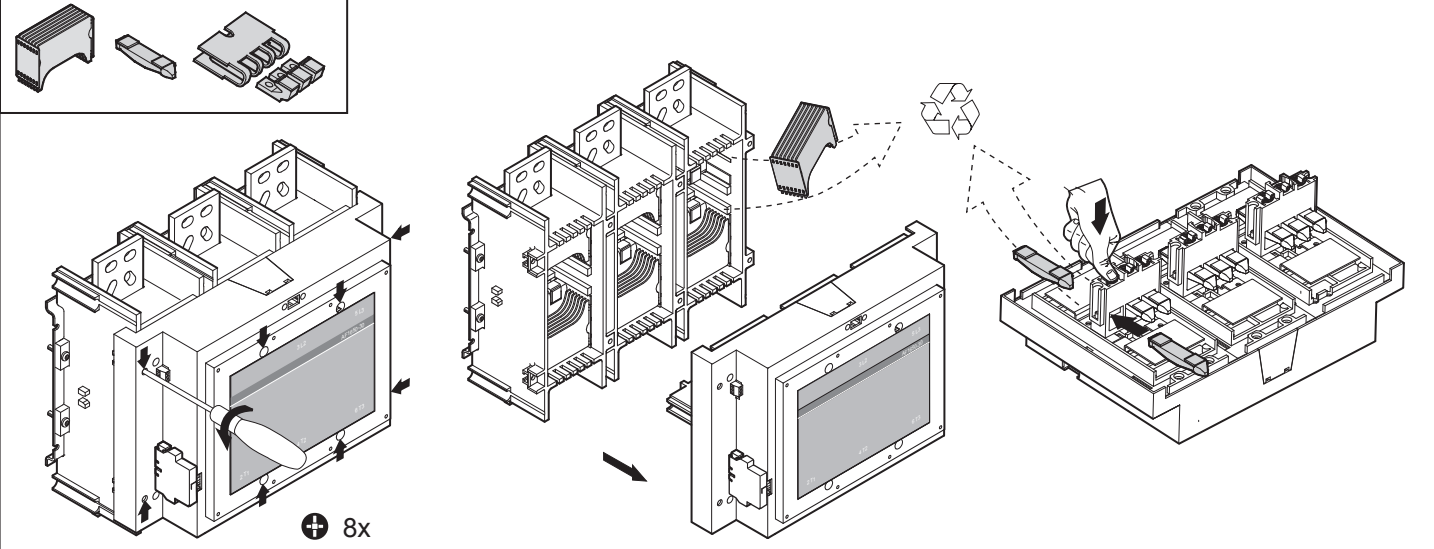
Environment 1: "Mainly relates to low-voltage public networks such as residential, commercial and light industrial locations/installations. Highly distributing sources such as arc welders are not covered by this environment".

Environment 2: "Mainly relates to low-voltage industrial networks/locations/ installations including highly disturbing sources".

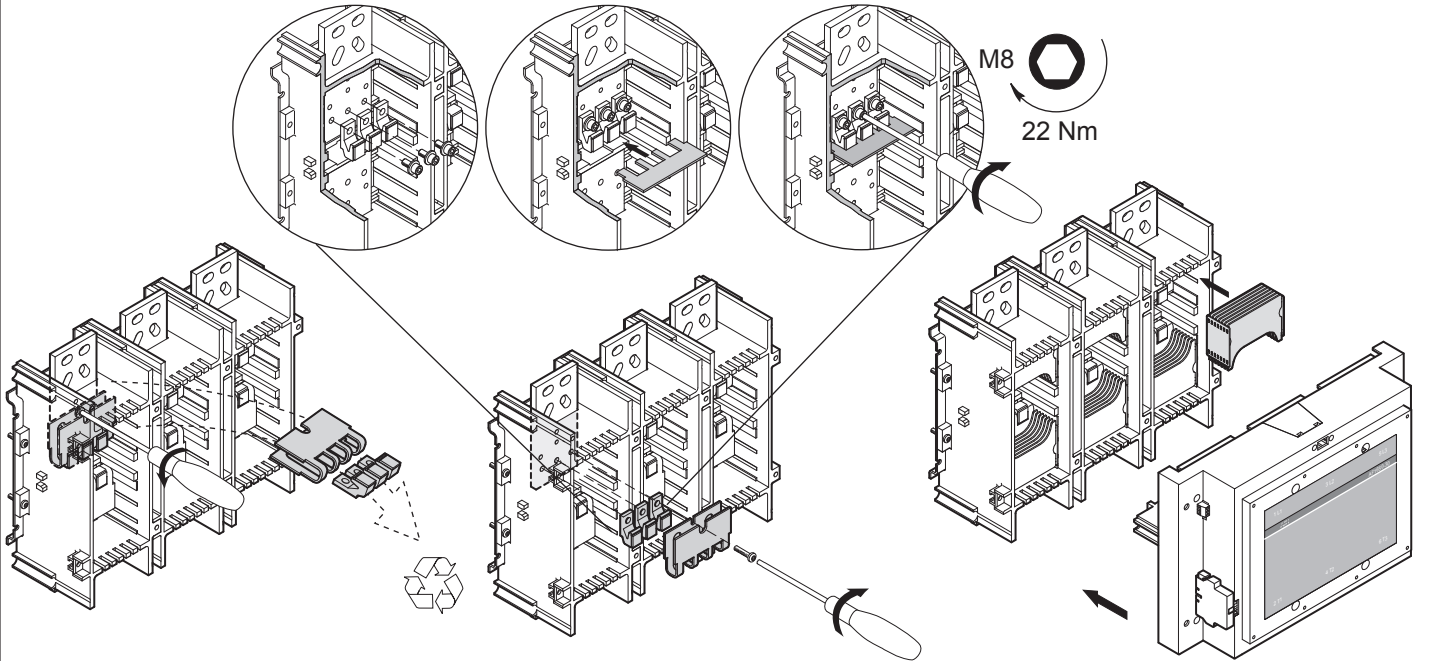


	<p>M12</p>  <p>45 N.m - 398 lb.in</p>	 <p>max 100</p>	<p>AF1350 , AF1650: Use terminal kit K7TK, wire 4/0 AWG - 500 kcmil Cu 75 °C only, 375 in - lb AF2050: Use copper bars of minimum 4 times 21/2 (width) by 1/4 inch (thickness)</p>
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 <p>A1 A2</p>	<p>M 3.5</p>  <p>1 Nm (7 in. lbs)</p>	<p>ø 5 Pozidriv N° 2</p> 	<p>2 x 1 2,5 mm² 2 x 0,75 2,5 mm² Cu 75°C</p>	 <p>l > 3,5 mm, L < 8 mm</p>
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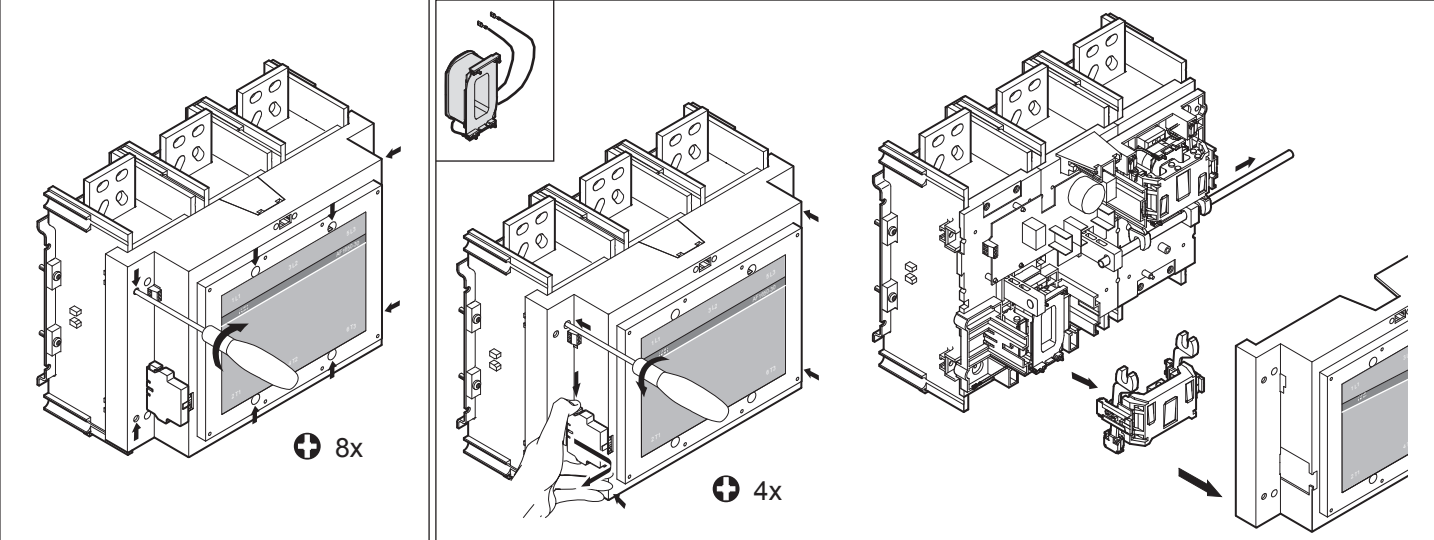


⊕ 8x



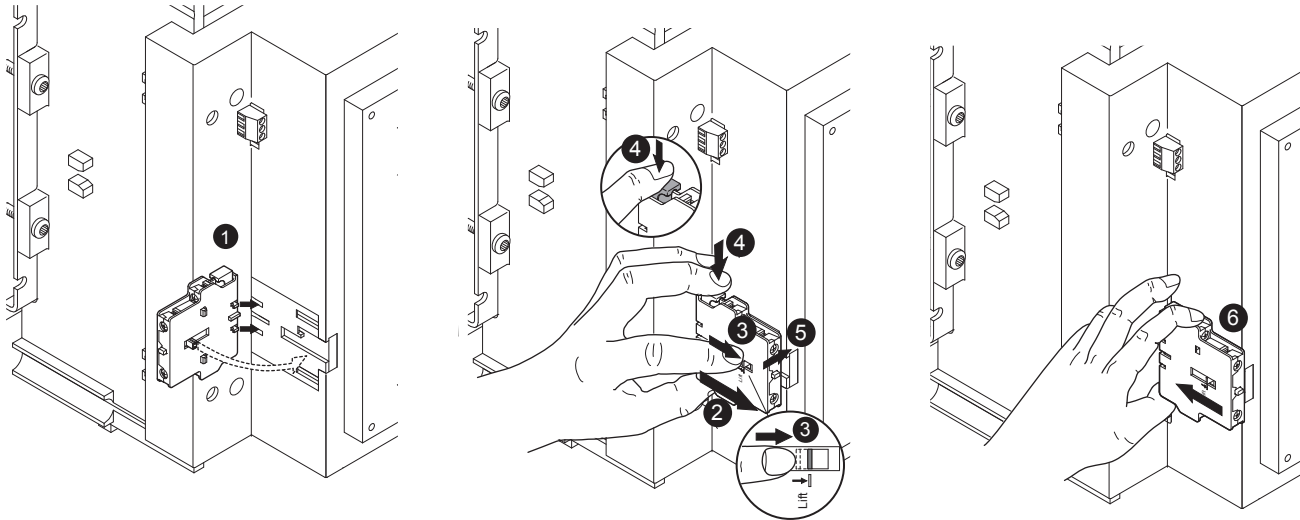
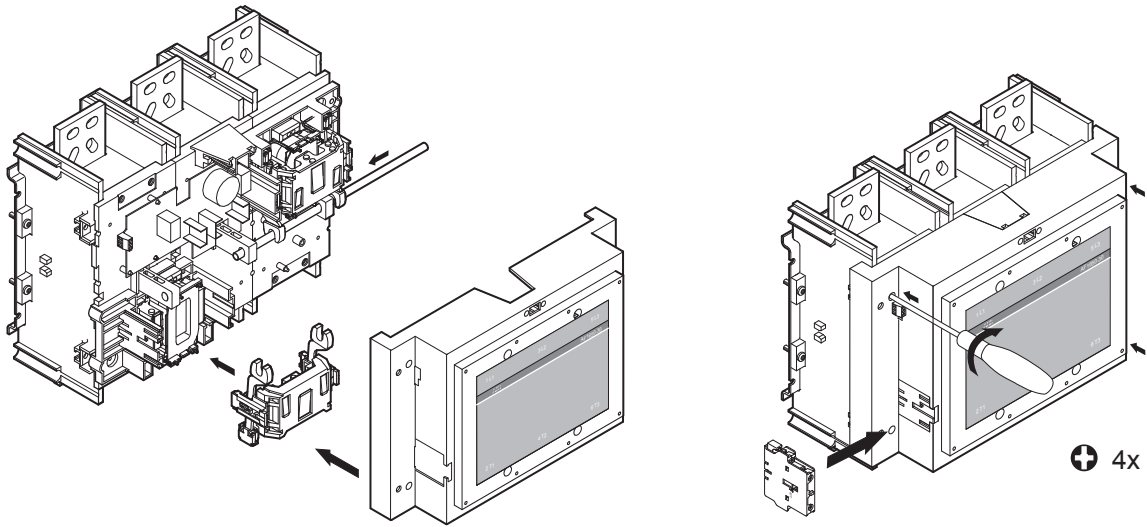
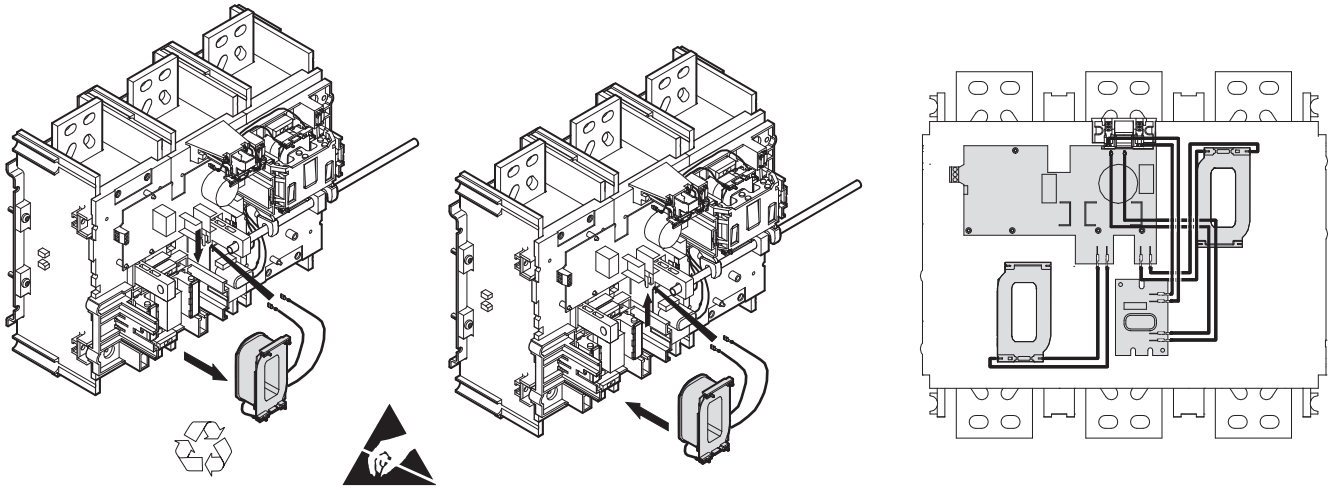
M8

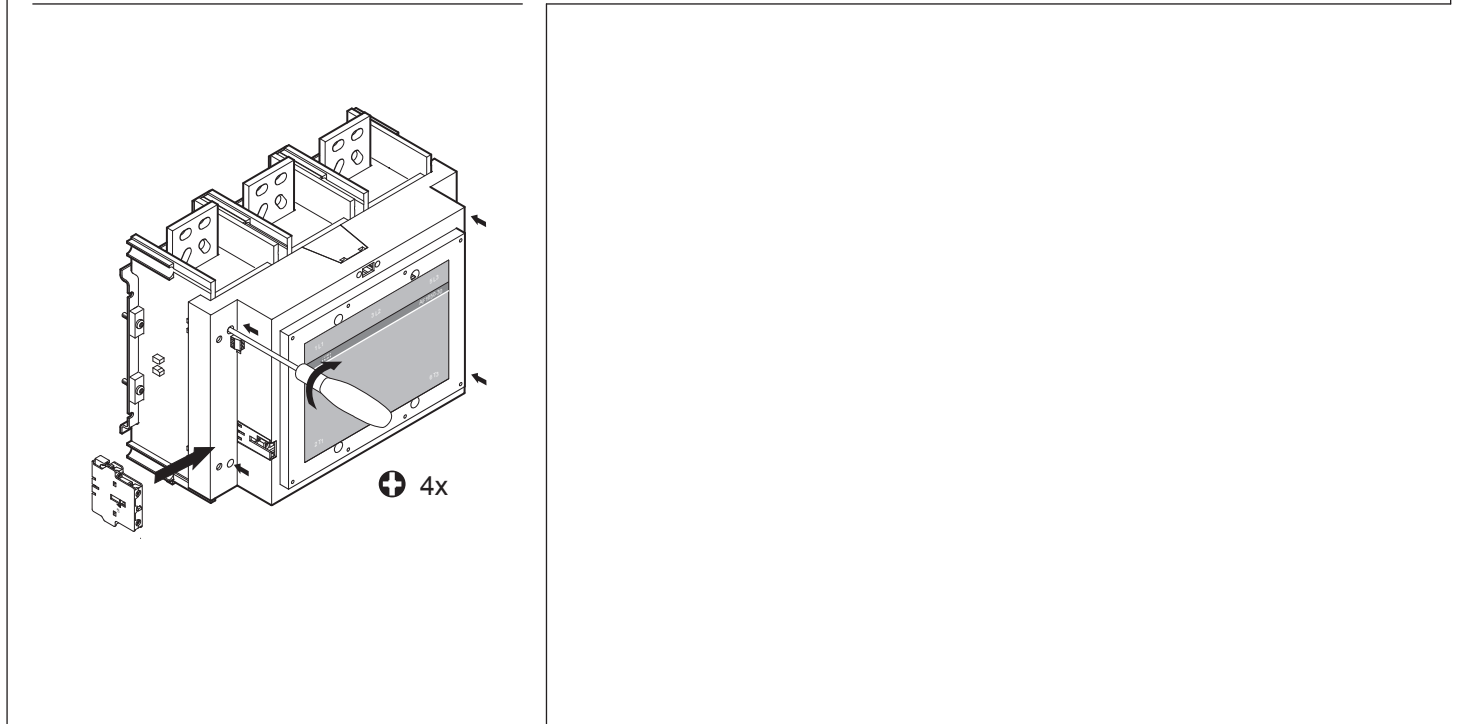
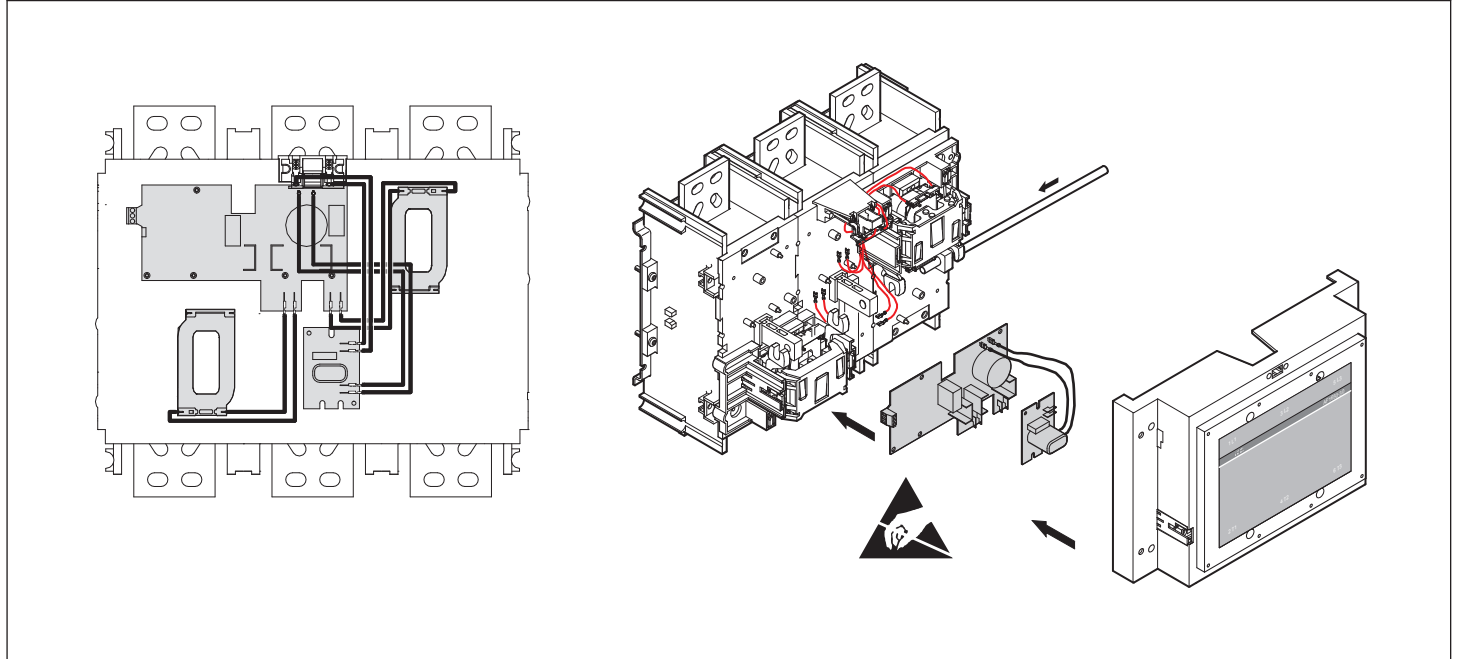
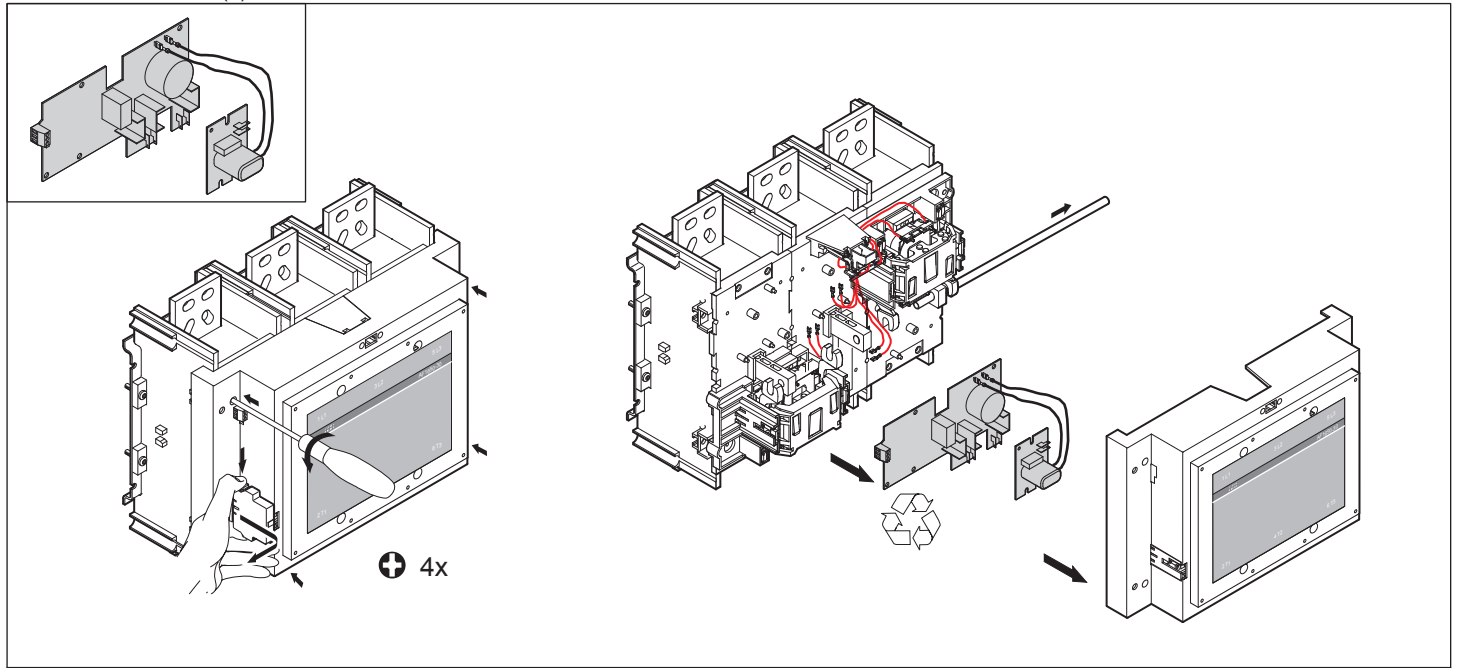
22 Nm

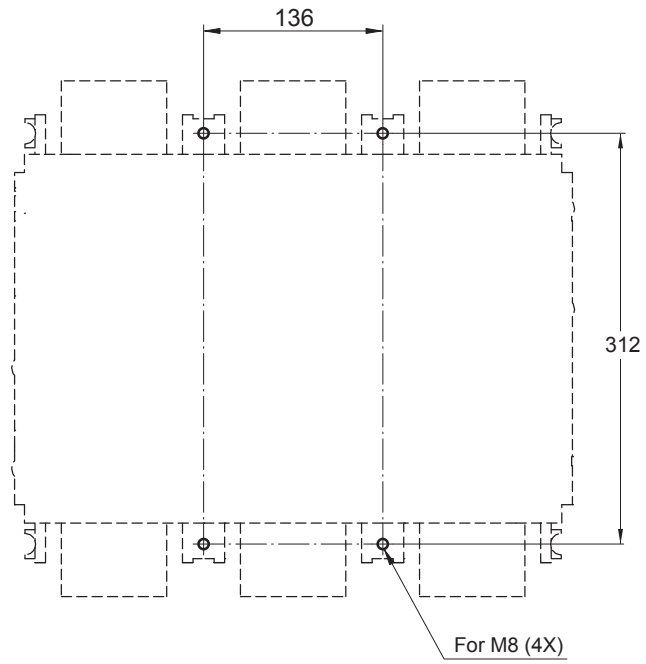


⊕ 8x

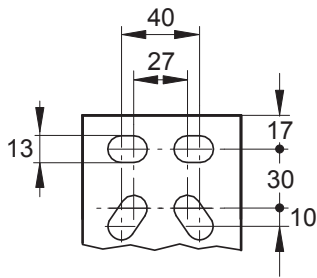
⊕ 4x







AF 1350, AF 1650



AF 2050

