

SIEMENS

Max - Flex™ Operators
Operadores Max-Flex™
Opérateurs Max-Flex™

MFMG	MFKG3R5	MFKG3R10	MFKG4X6	MFKG4X12	MFCF084
MFHG3R	MFKG3R6	MFKG3R12	MFKG4X7	MFCF036	MFCF096
MFHG4X	MFKG3R7	MFKG4X3	MFKG4X8	MFCF048	MFCF108
MFKG3R3	MFKG3R8	MFKG4X4	MFKG4X9	MFCF060	MFCF120
MFKG3R4	MFKG3R9	MFKG4X5	MFKG4X10	MFCF072	MFCF144

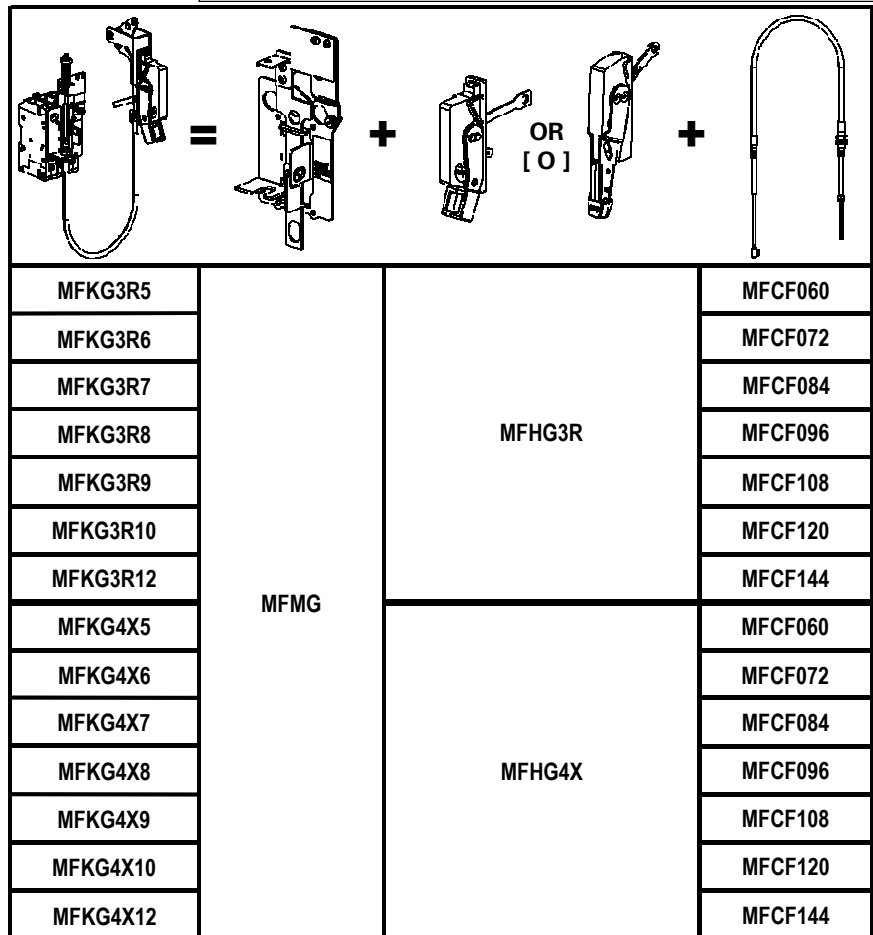
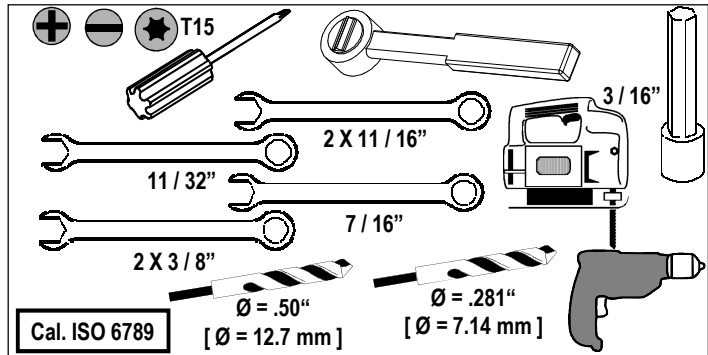
For Use With NGG, HGG and LGG
Para Usar Con Caja Base NGG, HGG y LGG

Installation Instructions / Instructivo de Instalación

	⚠ Danger	⚠ Peligro	⚠ Danger
	Hazardous Voltage. Will cause death or serious injury.	Tensión peligrosa. Puede causar la muerte o lesiones graves.	Tension dangereuse. Danger de mort ou risque de blessures graves.
	Turn off and lock out all power supplying this device before working on this device. Replace all covers before power supplying this device is turned on.	Desenergice totalmente antes de instalar o darle servicio. Reemplace todas las barreras y cubiertas antes de energizar el interruptor.	Couper l'alimentation de l'appareil et barrer avant de travailler. Remplacez tous les couverts avant que l'alprovisionnement de pouvoir soit alimenté.

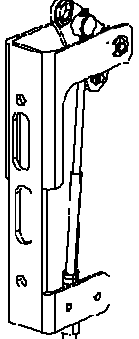
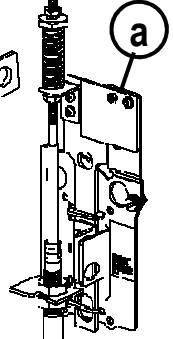
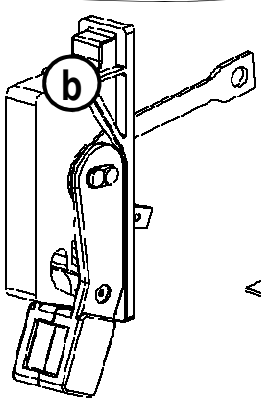
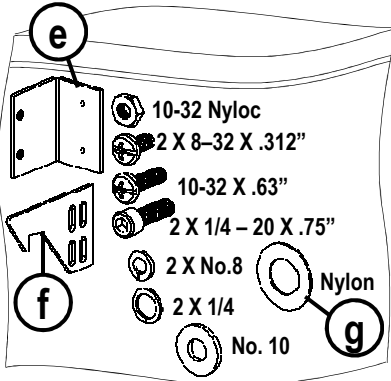
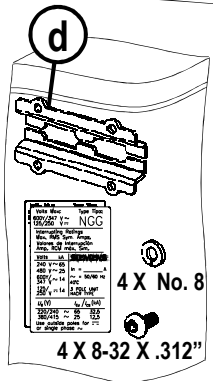
Use only with Siemens certified Components.
Utilizar únicamente con componentes certificados de Siemens.
A utiliser uniquement avec les composants certifiés Siemens.

MFHG3R MFKG3R_1 MFKG3R1_1	Suitable For Type 1,3,3R,4,12,12K enclosures [Apto par tipo 1,3,3R,4,12,12K caja]
MFHG4X MFKG4X_1 MFKG4X1_1	Suitable For Type 1,2,3,3R,4,4X,12,12K,13 enclosures [Apto par tipo 1,2,3,3R,4,4X,12,12K,13 caja]



Ex:
MFKG3R5 = MFMG + MFHG3R + MFCF060

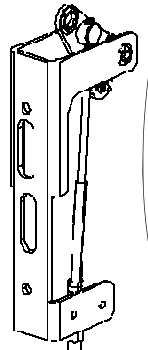
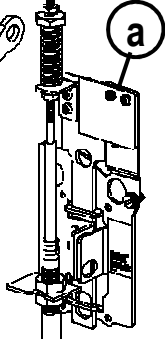
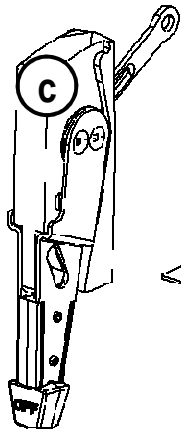
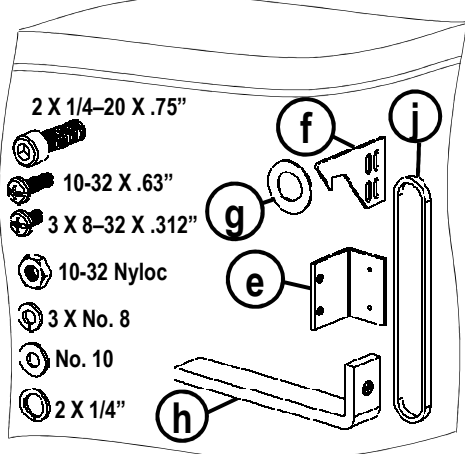
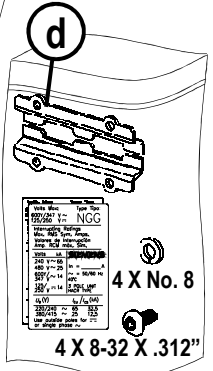
See steps 1-7, 10-14 and 23-38 for installation
 [Ver pasos 1-7, 10-14 y 23-38 para instalar]



MFKG3R3
 MFKG3R4

MFKG4X3
 MFKG4X4

See steps 1-7, 15-19 and 23-38 for installation
 [Ver pasos 1-7, 15-19 y 23-38 para instalar]





Danger

Hazardous Voltage.
Will cause death or serious injury.

Turn off and lock out all power supplying this device before working on this device.
Replace all covers before power supplying this device is turned on.



Peligro

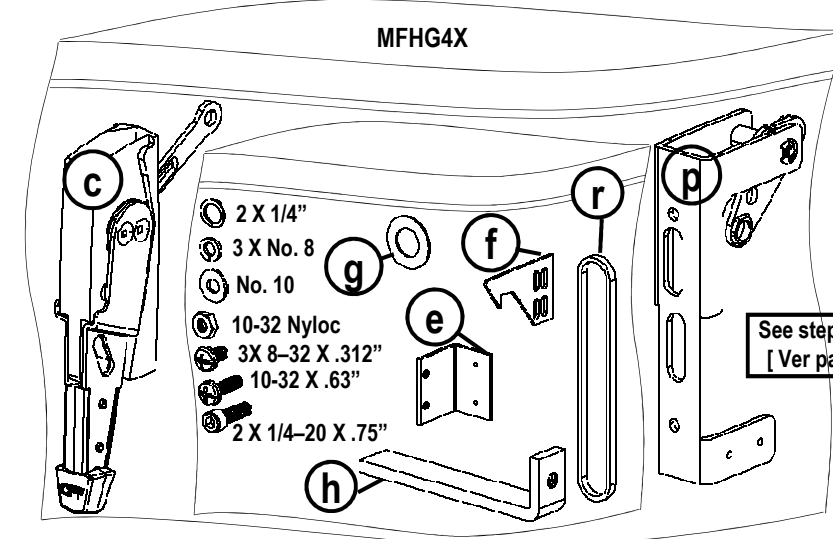
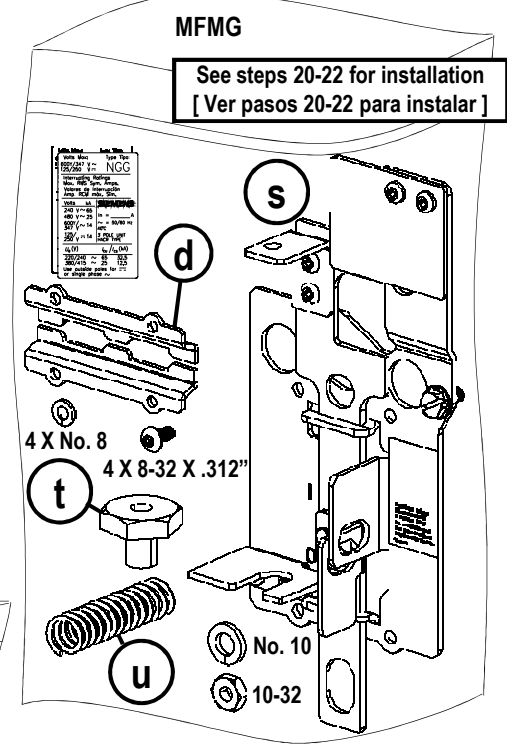
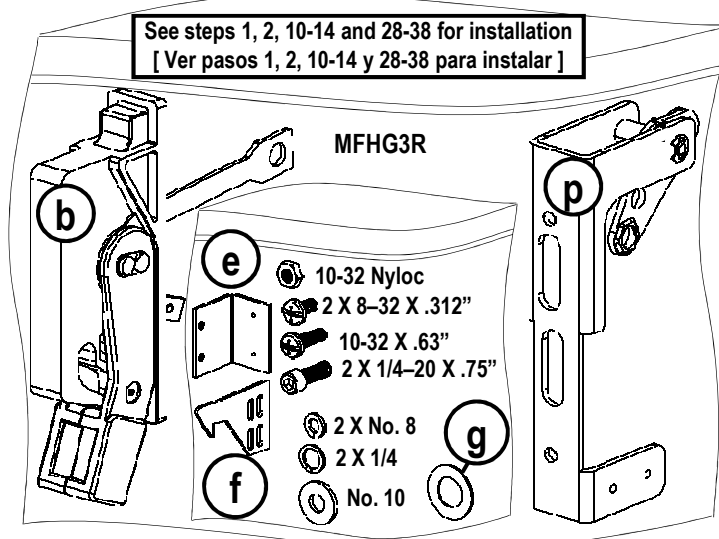
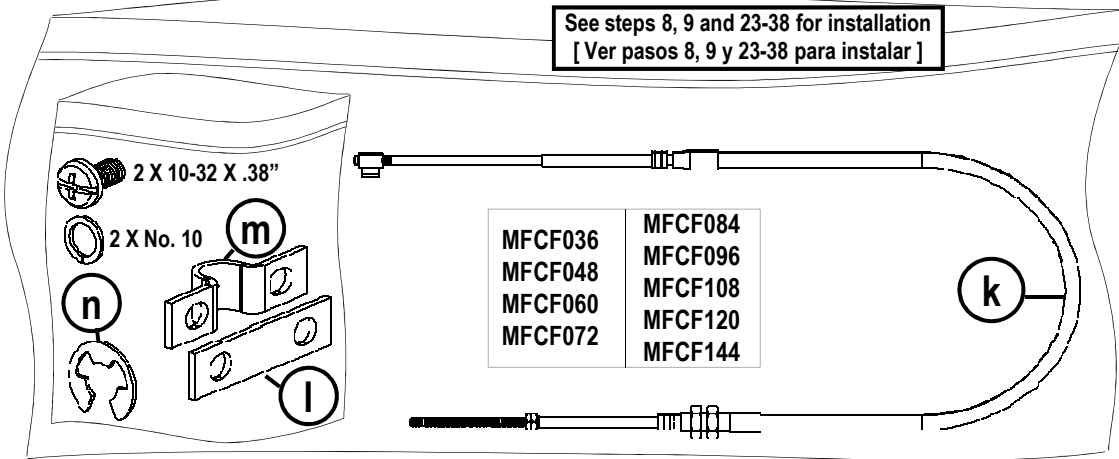
Tensión peligrosa.
Puede causar la muerte o lesiones graves.

Desenergice totalmente antes de instalar o darle servicio.
Reemplace todas las barreras y cubiertas antes de energizar el interruptor.

Danger

Tension dangereuse.
Danger de mort ou risque de blessures graves.

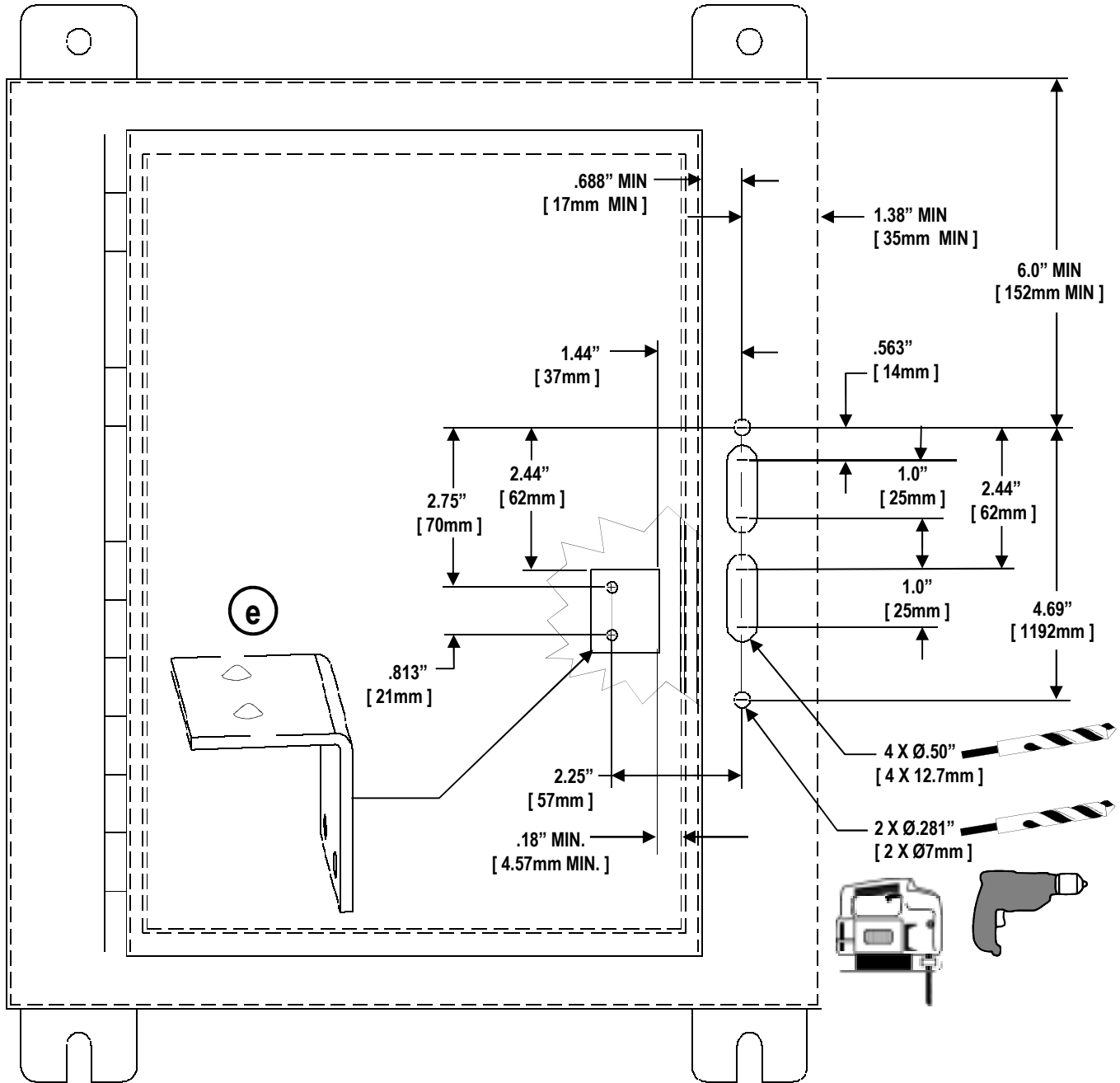
Couper l'alimentation de l'appareil et barrer avant de travailler.
Remplacez tous les couverts avant que l'alimentation de pouvoir soit alimenté.



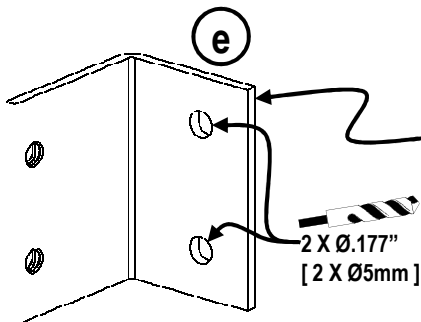
See steps 1, 2, 15-19 and 28-38 for installation
[Ver pasos 1, 2, 15-19 y 28-38 para instalar]

**Dimensions for Welded or Screw mounting the cover catch.
[Dimensiones para soldar o atornillar el seguro de la puerta.]**

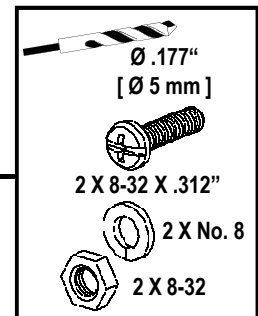
1



**Option:
[Opción:]**



Customer supplied hardware for screw mounting option. Hardware must maintain environmental integrity (NEMA rating) of the enclosure.
[Todos los materiales deben Mantener la integridad ambiental de la caja.]





⚠ Danger

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Will cause death or serious injury.

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Replace all covers before power supplying this device is turned on.



⚠ Peligro

Tensión peligrosa.
Puede causar la muerte o lesiones graves.

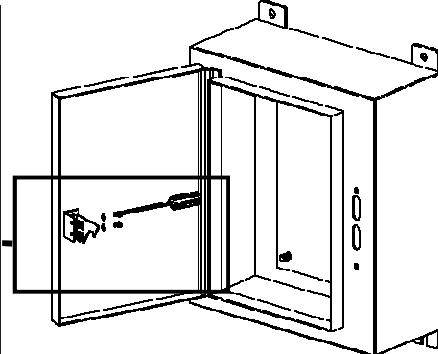
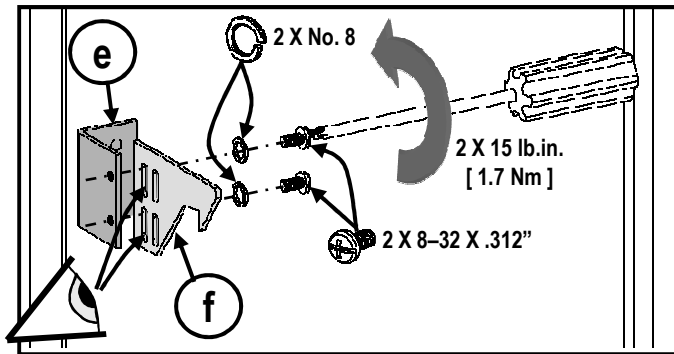
Desenergice totalmente antes de instalar o darle servicio.
Reemplace todas las barreras y cubiertas antes de energizar el interruptor.

⚠ Danger

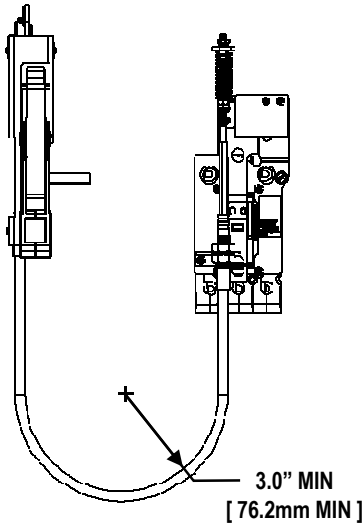
Tension dangereuse.
Danger de mort ou risque de blessures graves.

Couper l'alimentation de l'appareil et barrer avant de travailler.
Remplacez tous les couverts avant que l'alimentation de pouvoir soit alimenté.

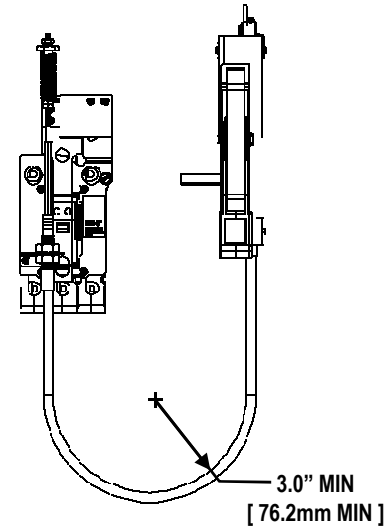
2



3



Minimum bending radius.
[Radios mínimos de curvatura.]

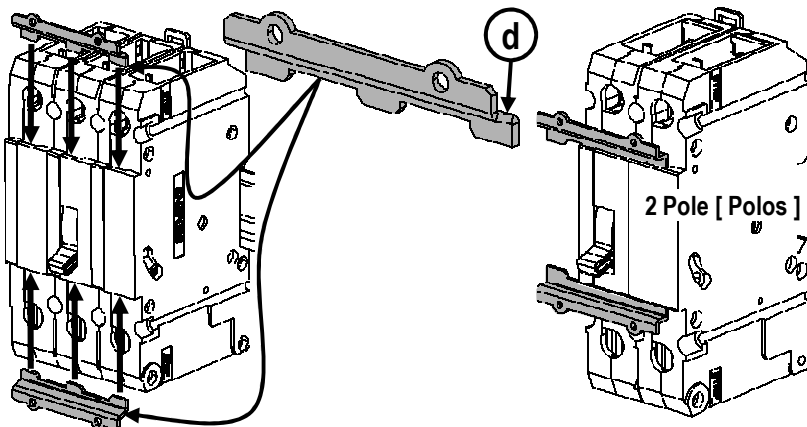


MFKG3R3	MFKG3R9	MFKG4X3	MFKG4X9
MFKG3R4	MFKG3R10	MFKG4X4	MFKG4X10
MFKG3R5	MFKG3R12	MFKG4X5	MFKG4X12
MFKG3R6		MFKG4X6	
MFKG3R7		MFKG4X7	
MFKG3R8		MFKG4X8	

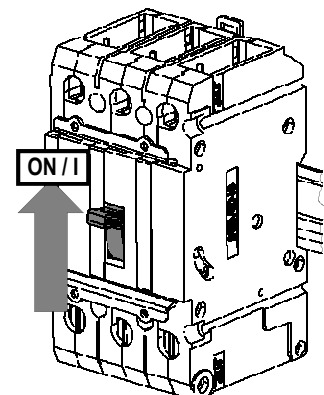
ONLY
[SOLAMENTE]

Enclosure removed for clarity
[Caja removida por claridad]

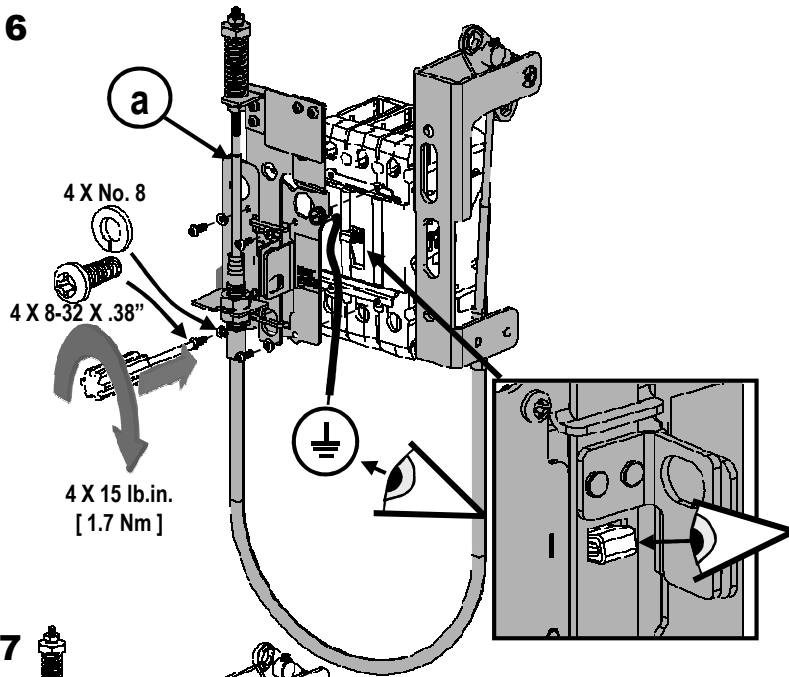
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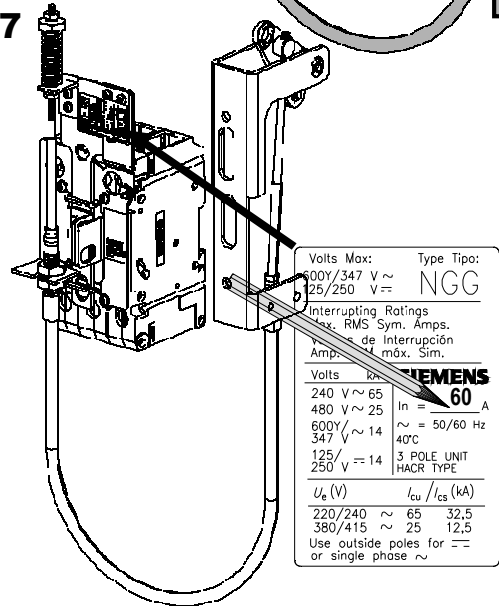
5



6



7



Volts Max:	Type Tipo:
600Y/347 V ~	NGG
125/250 V =	
Interrupting Ratings	
Max. RMS Sym. Amps.	
Valores de Interrupción	
Amp. RCM máx. Sim.	
Volts	kA
240 V ~ 65	In = _____ A
480 V ~ 25	~ = 50/60 Hz
600Y/347 V ~ 14	40°C
125/250 V = 14	3 POLE UNIT
	HACR TYPE
U _e (V)	I _{cu} / I _{cs} (kA)
220/240 ~ 65	32,5
380/415 ~ 25	12,5
Use outside poles for = or single phase ~	

Volts Max:	Type Tipo:
600Y/347 V ~	NGG
125/250 V =	
Interrupting Ratings	
Max. RMS Sym. Amps.	
Valores de Interrupción	
Amp. RCM máx. Sim.	
Volts	kA
240 V ~ 65	I _r = _____ A
480 V ~ 25	~ = 50/60 Hz
600Y/347 V ~ 14	40°C
125/250 V = 14	2 POLE UNIT
	HACR TYPE
U _e (V)	I _{cu} / I _{cs} (kA)
220/240 ~ 65	32,5
380/415 ~ 25	12,5
25/250 = 14	7

Volts Max:	Type Tipo:
600Y/347 V ~	NGG
125/250 V =	
Interrupting Ratings	
Max. RMS Sym. Amps.	
Valores de Interrupción	
Amp. RCM máx. Sim.	
Volts	kA
240 V ~ 65	In = _____ A
480 V ~ 25	~ = 50/60 Hz
600Y/347 V ~ 14	40°C
125/250 V = 14	3 POLE UNIT
	HACR TYPE
U _e (V)	I _{cu} / I _{cs} (kA)
220/240 ~ 65	32,5
380/415 ~ 25	12,5
Use outside poles for = or single phase ~	

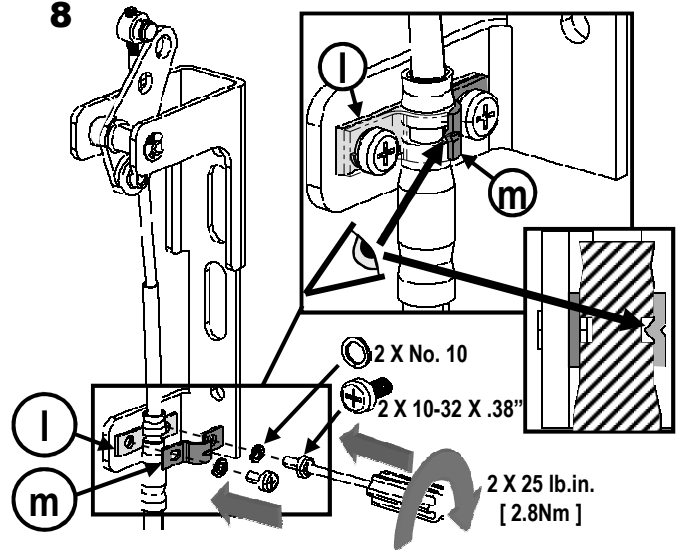
OR

Go to Step 10 [Ir al Paso 10]
or [o]
[Go to Step 15 [Ir al Paso 15]

For left hand side mounting and right hand side mounting
[Para montaje de lado izquierdo y lado derecho]

- MFC036
- MFC048
- MFC060
- MFC072
- MFC084
- MFC096
- MFC108
- MFC120
- MFC144

8





⚠ Danger

Hazardous Voltage.
Will cause death or serious injury.



Turn off and lock out all power supplying this device before working on this device.
Replace all covers before power supplying this device is turned on.

⚠ Peligro

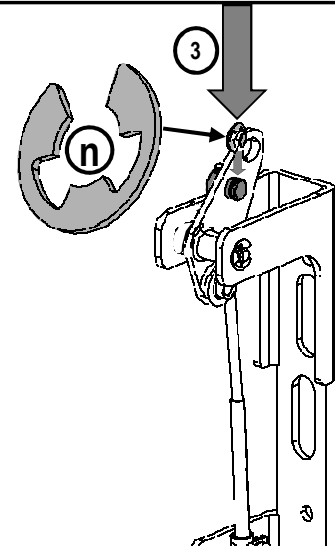
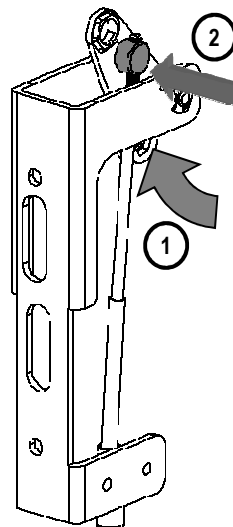
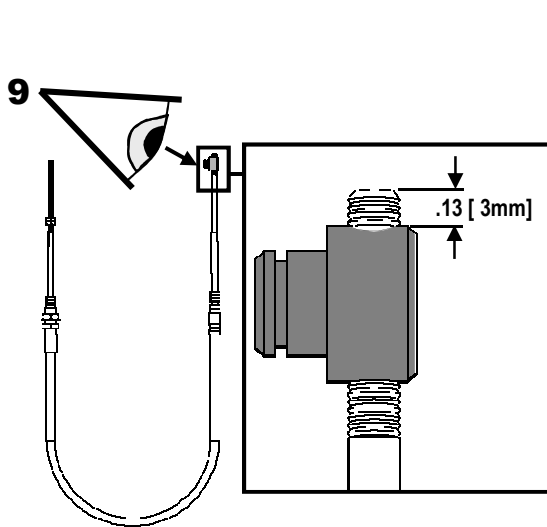
Tensión peligrosa.
Puede causar la muerte o lesiones graves.

Desenergice totalmente antes de instalar o darle servicio.
Reemplace todas las barreras y cubiertas antes de energizar el interruptor.

⚠ Danger

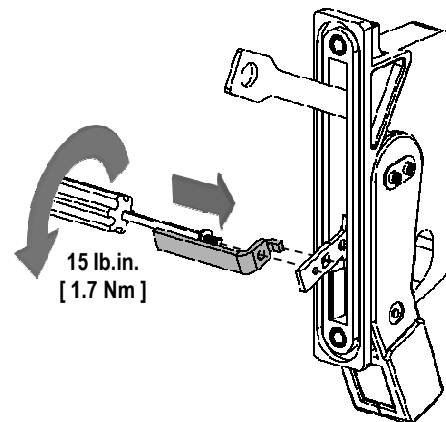
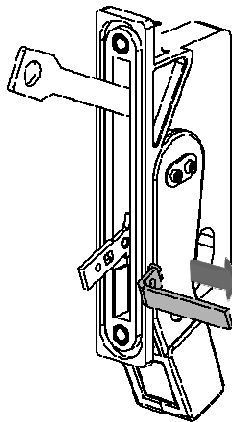
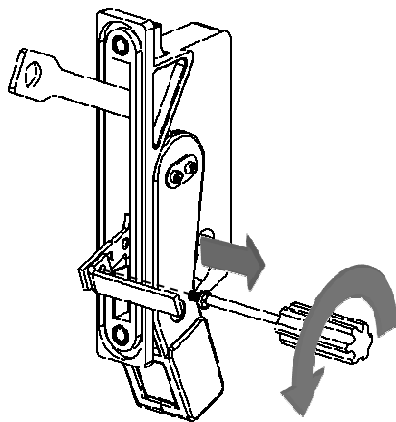
Tension dangereuse.
Danger de mort ou risque de blessures graves.

Couper l'alimentation de l'appareil et barrer avant de travailler.
Remplacez tous les couvercles avant que l'alimentation de pouvoir soit alimenté.



Option:
[Opción:]

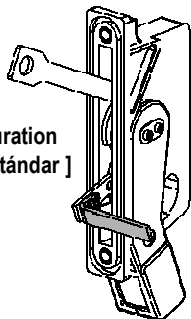
Modification for left hand side
[Modificación para lado izquierdo mano lado]



right hand side mounting
[Montaje de lado derecho]

10

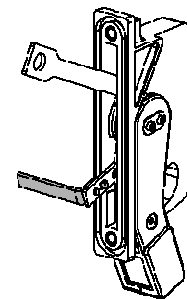
Standard configuration
[Configuración estándar]



MFHG3R
MFKG3R3
MFKG3R4
MFKG3R5
MFKG3R6
MFKG3R7
MFKG3R8
MFKG3R9
MFKG3R10
MFKG3R12

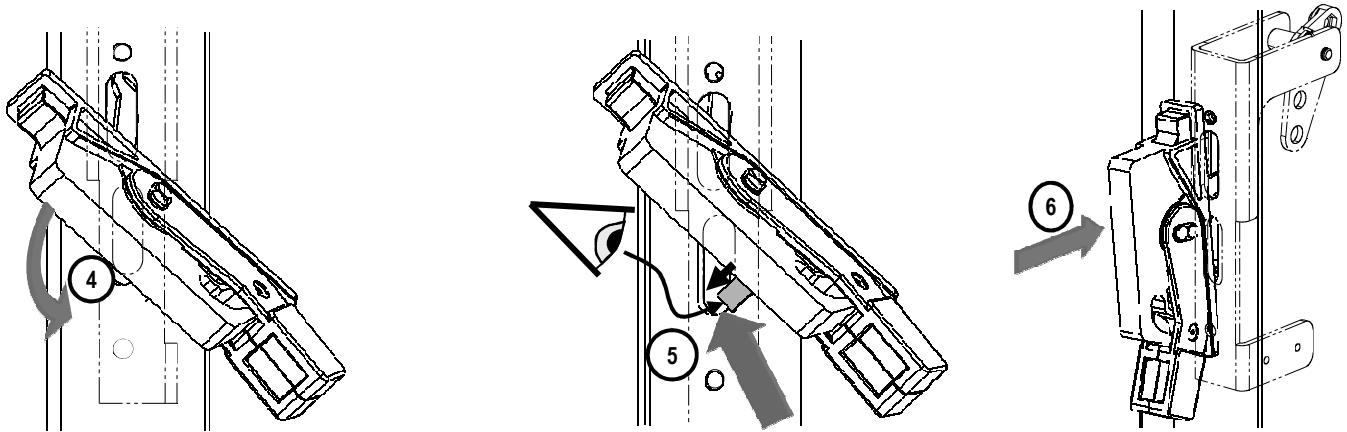
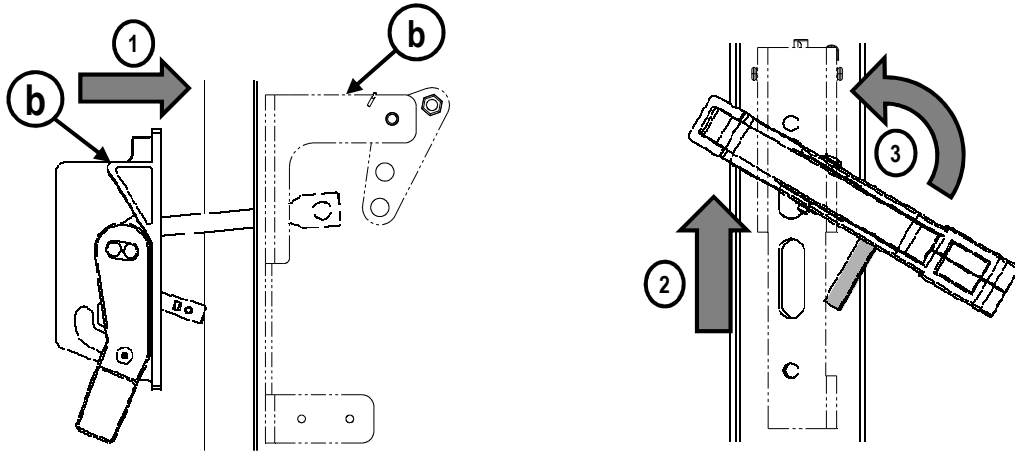
Option:
[Opción:]

left hand side mounting
[Montaje de lado izquierdo]



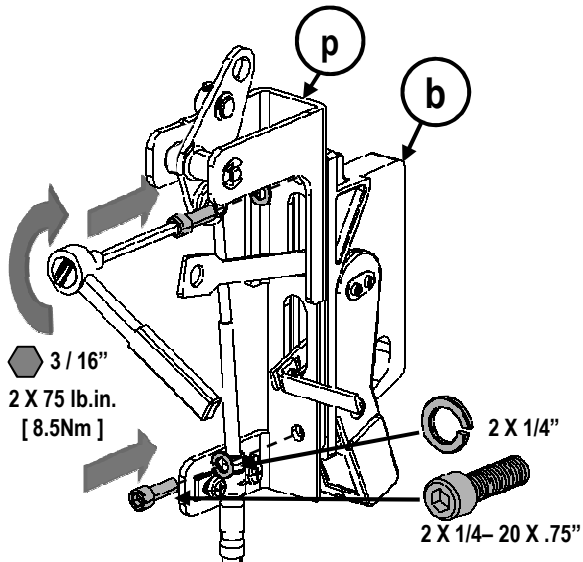
Ex: right hand side mounting
 [Montaje de lado derecho]

11



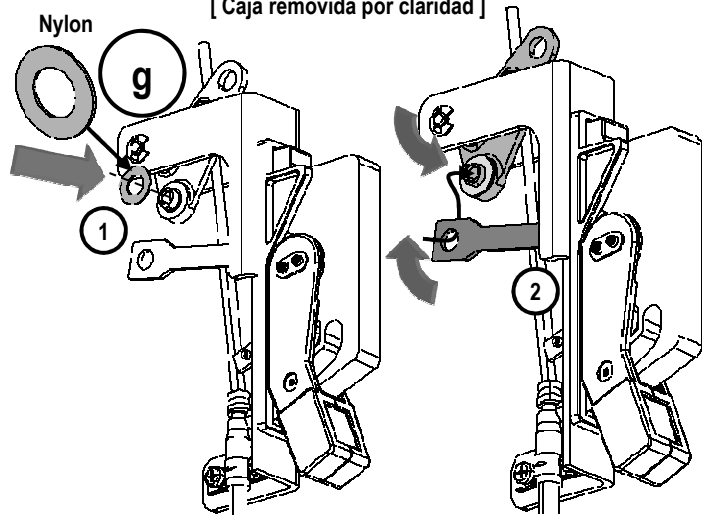
12

Enclosure removed for clarity
 [Caja removida por claridad]



13

Enclosure removed for clarity
 [Caja removida por claridad]





⚠ Danger

Hazardous Voltage.
Will cause death or serious injury.

Turn off and lock out all power supplying this device before working on this device.
Replace all covers before power supplying this device is turned on.

⚠ Peligro

Tensión peligrosa.
Puede causar la muerte o lesiones graves.

Desenergice totalmente antes de instalar o darle servicio.
Reemplace todas las barreras y cubiertas antes de energizar el interruptor.

⚠ Danger

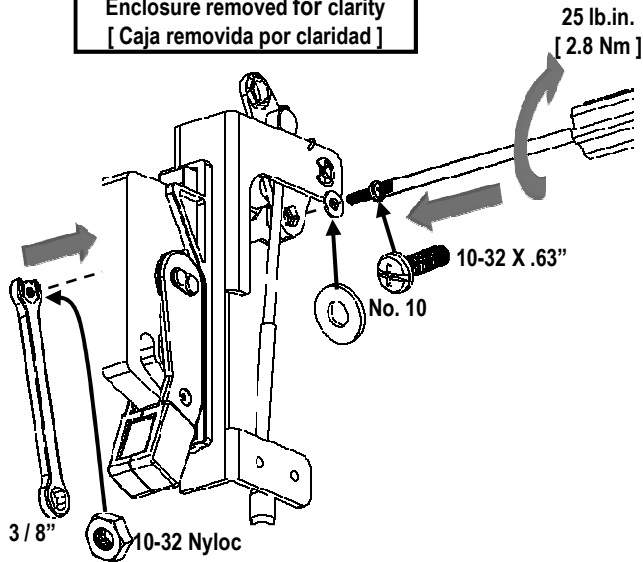
Tension dangereuse.
Danger de mort ou risque de blessures graves.

Couper l'alimentation de l'appareil et barrer avant de travailler.
Remplacez tous les couverts avant que l'alimentation de pouvoir soit alimenté.

14

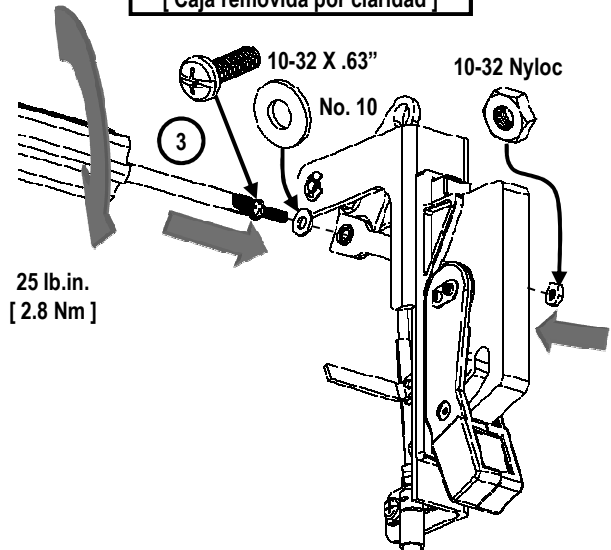
left hand side mounting
[Montaje de lado izquierdo]

Enclosure removed for clarity
[Caja removida por claridad]



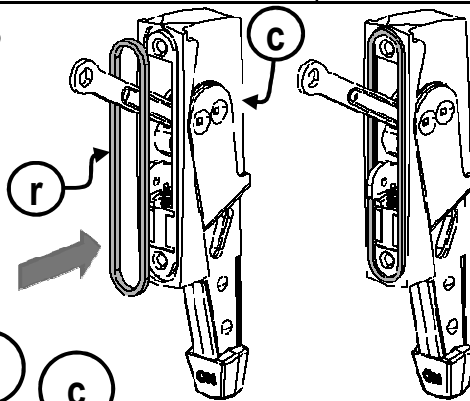
right hand side mounting
[Montaje de lado derecho]

Enclosure removed for clarity
[Caja removida por claridad]

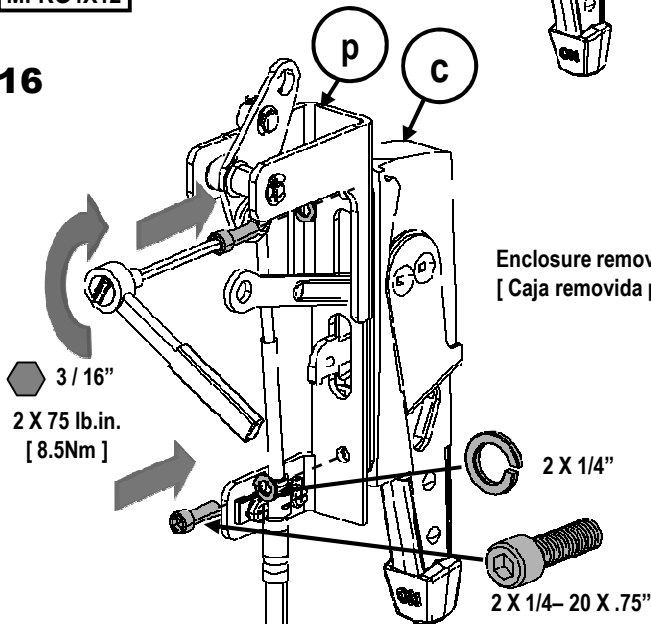


- MFHG4X
- MFKG4X3
- MFKG4X4
- MFKG4X5
- MFKG4X6
- MFKG4X7
- MFKG4X8
- MFKG4X9
- MFKG4X10
- MFKG4X12

15

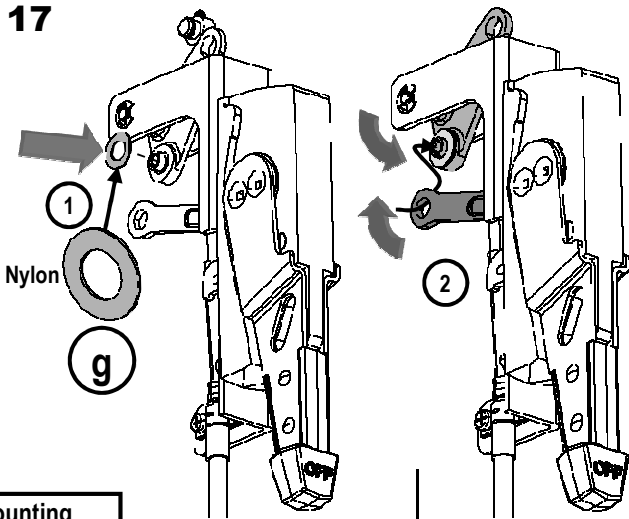


16



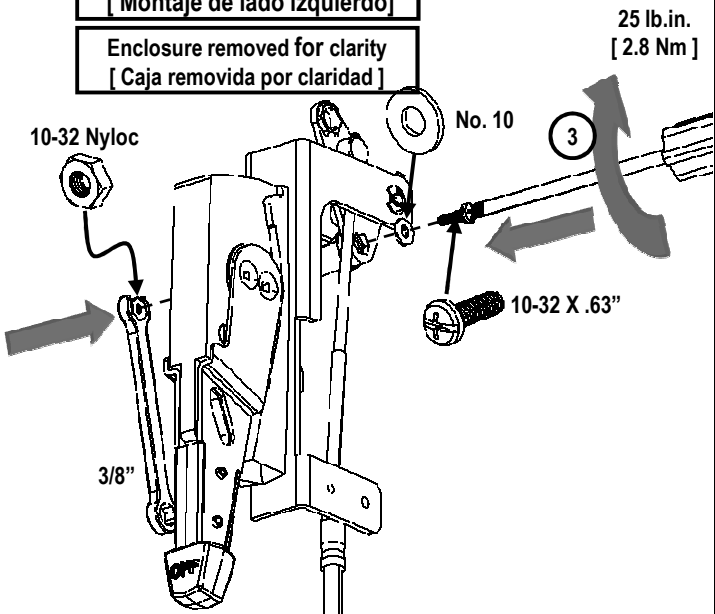
Enclosure removed for clarity
[Caja removida por claridad]

- MFHG4X
- MFKG4X3
- MFKG4X4
- MFKG4X5
- MFKG4X6
- MFKG4X7
- MFKG4X8
- MFKG4X9
- MFKG4X10
- MFKG4X12



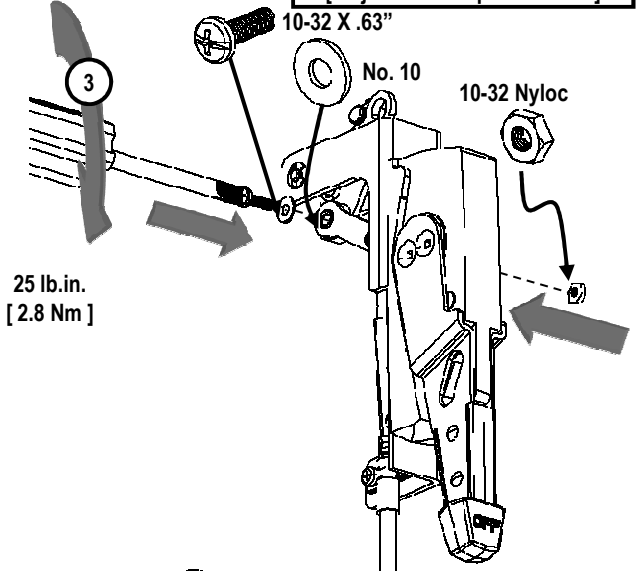
18 left hand side mounting
[Montaje de lado izquierdo]

Enclosure removed for clarity
[Caja removida por claridad]



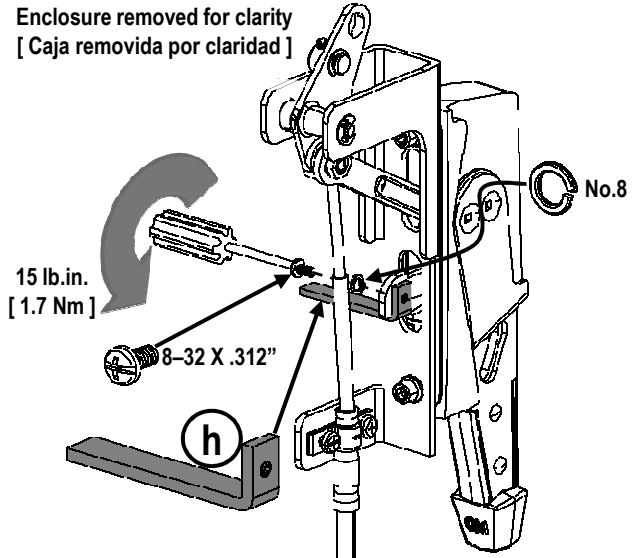
right hand side mounting
[Montaje de lado derecho]

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[Caja removida por claridad]

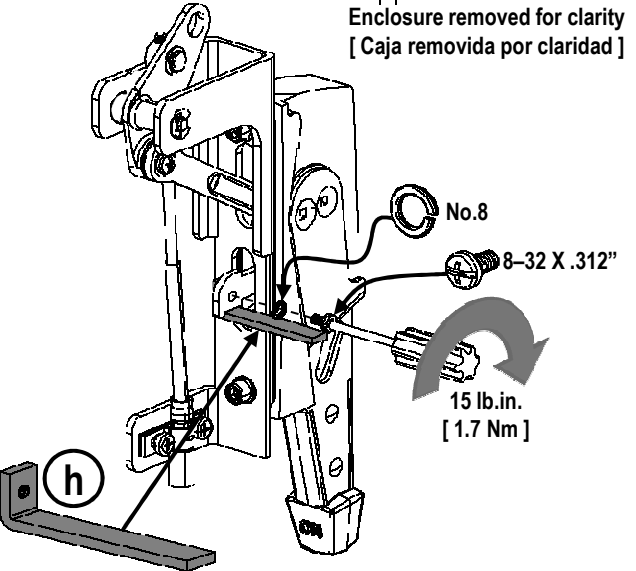


19 Enclosure removed for clarity
[Caja removida por claridad]

Enclosure removed for clarity
[Caja removida por claridad]



Enclosure removed for clarity
[Caja removida por claridad]



MFKG3R3 / MFKG3R4 / MFKG4X3 / MFKG4X4 Go To Step 27
[MFKG3R3 / MFKG3R4 / MFKG4X3 / MFKG4X4 Ir al Paso 27]



Danger

Hazardous Voltage.
Will cause death or serious injury.



Turn off and lock out all power supplying this device before working on this device.
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Peligro

Tensión peligrosa.
Puede causar la muerte o lesiones graves.

Desenergice totalmente antes de instalar o darle servicio.
Reemplace todas las barreras y cubiertas antes de energizar el interruptor.

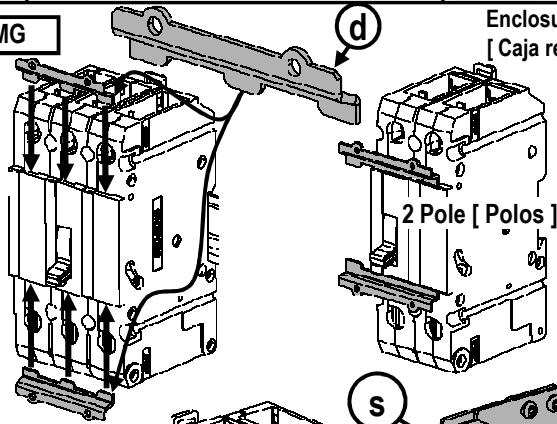
Danger

Tension dangereuse.
Danger de mort ou risque de blessures graves.

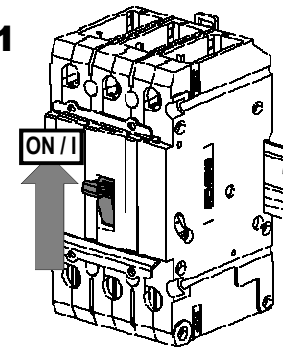
Couper l'alimentation de l'appareil et barrer avant de travailler.
Remplacez tous les couverts avant que l'alimentation de l'appareil soit alimenté.

MFMG

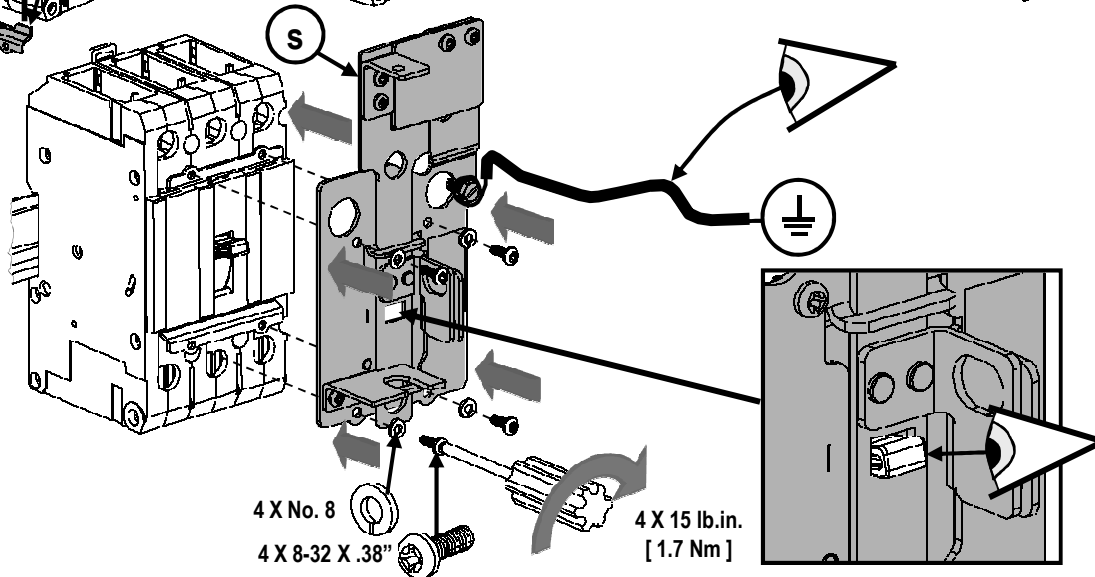
20



21



22



WARNING

Hazardous Voltage.
Can cause death or serious injury and Equipment Damage.



Proper electrical clearances must be maintained



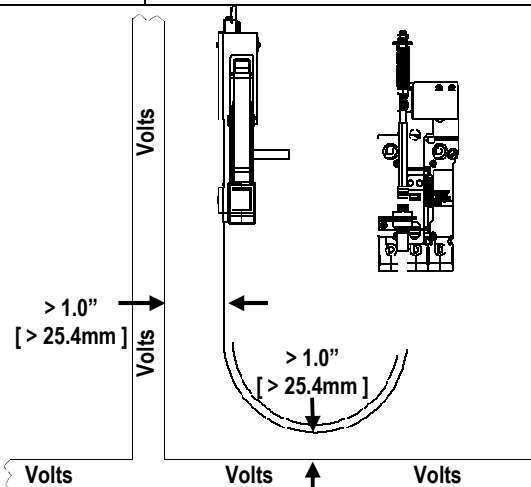
ADVERTENCIA

Tensión Peligrosa.
Puede causar la muerte o lesiones graves y daños al equipo.
Las separaciones eléctricas adecuadas deben ser mantenidas.



AVERTISSEMENT

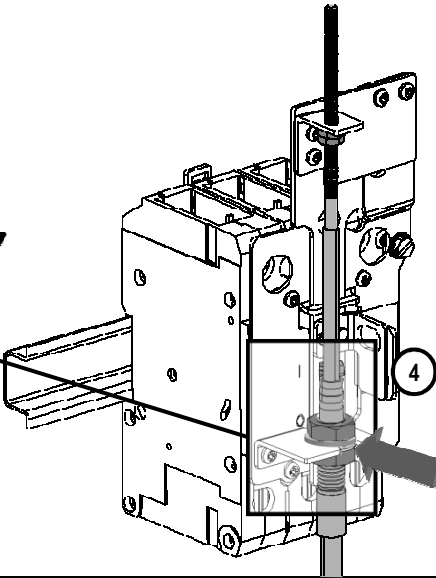
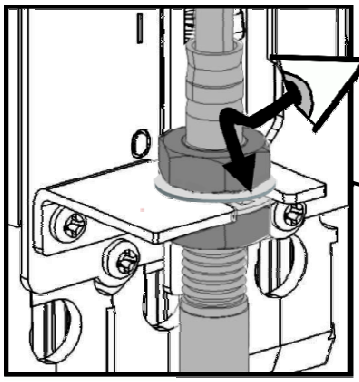
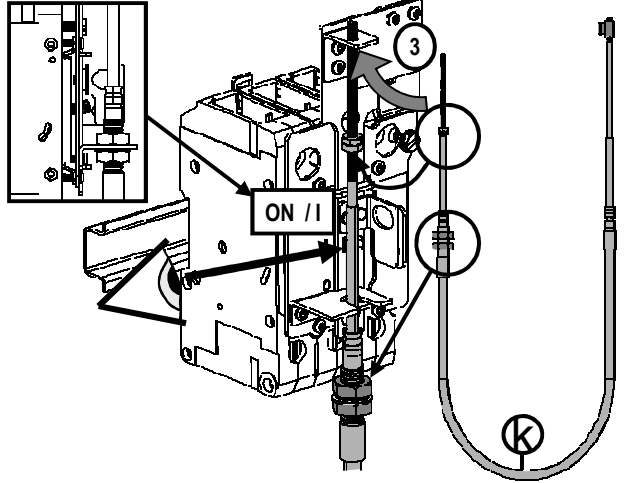
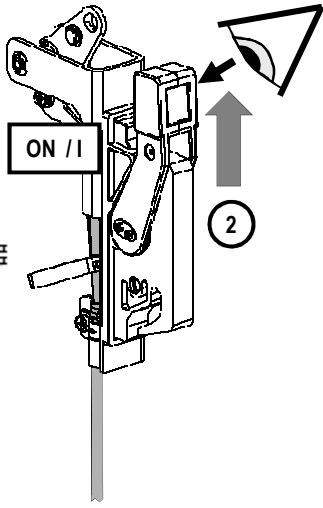
Tension dangereuse.
Peut provoquer des blessures graves ou mortelles ou causer des dommages à l'équipement.
Les dégagements électriques appropriés doivent être maintenus.



- MFC036
- MFC048
- MFC060
- MFC072
- MFC084
- MFC096
- MFC108
- MFC120
- MFC144

23

①
0.0" [0]

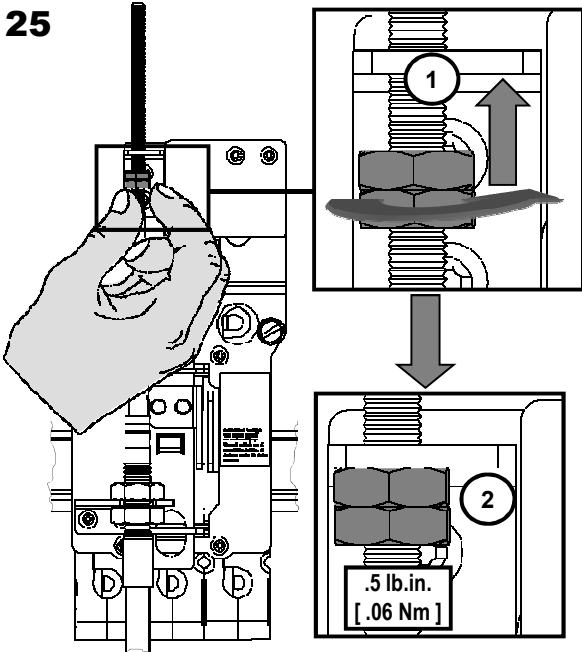


24

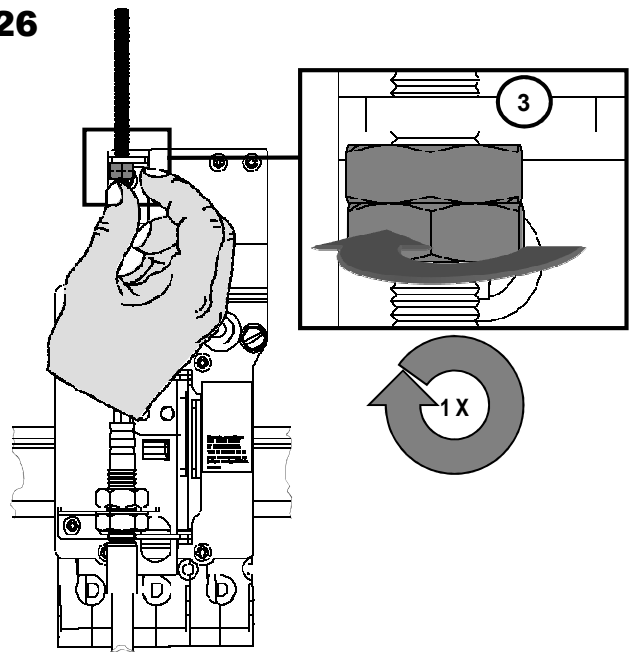
11/16" 35 lb.in. [3.9 Nm]

11/16"

25

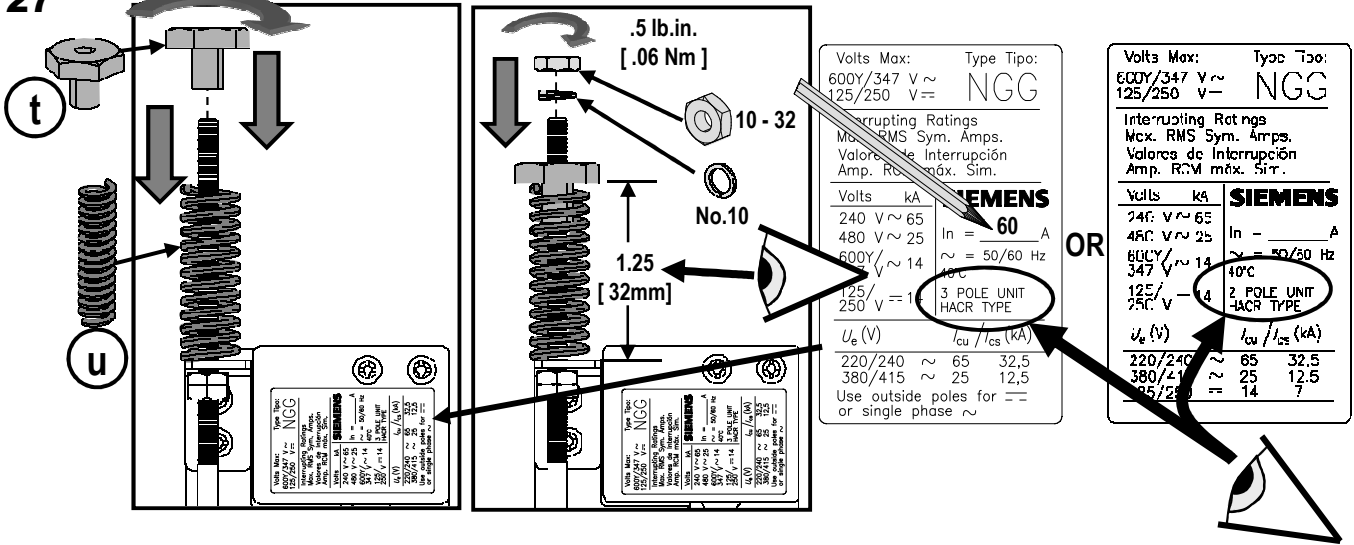


26



	⚠ Danger	⚠ Peligro	⚠ Danger
	Hazardous Voltage. Will cause death or serious injury.	Tensión peligrosa. Puede causar la muerte o lesiones graves.	Tension dangereuse. Danger de mort ou risque de blessures graves.
	Turn off and lock out all power supplying this device before working on this device. Replace all covers before power supplying this device is turned on.	Desenergice totalmente antes de instalar o darle servicio. Reemplace todas las barreras y cubiertas antes de energizar el interruptor.	Couper l'alimentation de l'appareil et barrer avant de travailler. Remplacez tous les couverts avant que l'alimentation de l'appareil soit alimentée.

27



5 lb.in. [0.06 Nm]

10-32

No.10

1.25 [32mm]

Volts Max: 600Y/347 V ~ 125/250 V = Type Tipo: **NGG**

Interrupting Ratings
Max. RMS Sym. Amps.
Valores de Interrupción Amp. RMS máx. Sim.

Volts kA SIEMENS

240 V ~ 65 In = **60** A
480 V ~ 25 ~ = 50/60 Hz
600Y/ ~ 14 40°C
125/ ~ 1
250 V = 1

3 POLE UNIT HACR TYPE

U_e (V) I_{cu} / I_{cs} (kA)

220/240 ~ 65 32,5
380/415 ~ 25 12,5
Use outside poles for ~ or single phase ~

Volts Max: 600Y/347 V ~ 125/250 V = Type Tipo: **NGG**

Interrupting Ratings
Max. RMS Sym. Amps.
Valores de Interrupción Amp. RMS máx. Sim.

Volts kA SIEMENS

240 V ~ 65 In = **4** A
480 V ~ 25 ~ = 50/60 Hz
600Y/ ~ 14 40°C
125/ ~ 1
250 V = 1

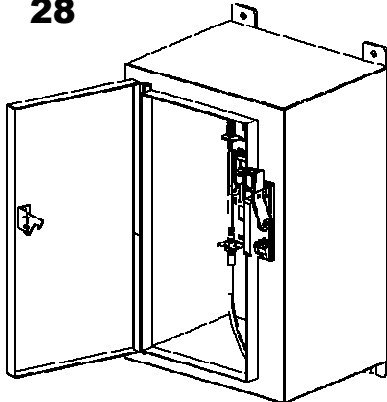
2 POLE UNIT HACR TYPE



U_e (V) I_{cu} / I_{cs} (kA)

220/240 ~ 65 32,5
380/415 ~ 25 12,5
115/230 ~ 14 7

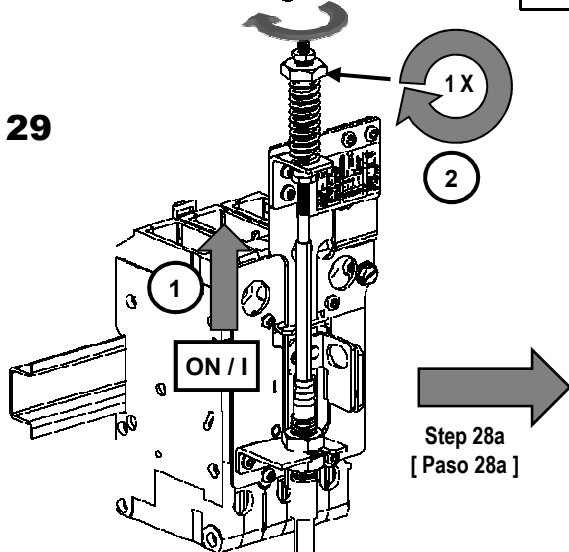
Test: ON / I – OFF / O
[Prueba: ON / I – OFF / O]

28



		Result [Resultado]		Go To [Ir Al]
				
28a	ON / I → OFF / O	OFF / O	OK	Test 28b [Prueba 28b]
		ON / I	OK	Step 29 [Paso 29]
28b	OFF / O → ON / I	ON / I	OK	Step 31 [Paso 31]
		OFF / O	OK	Step 30 [Paso 30]

29



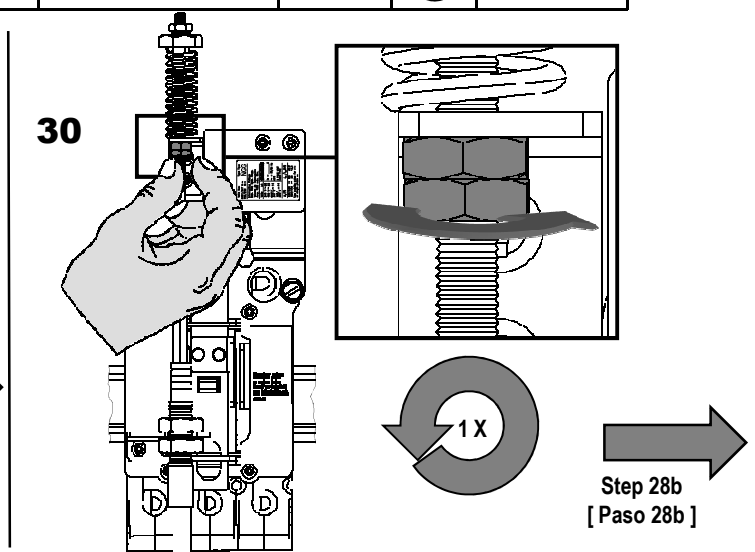
1X

2

ON / I

Step 28a [Paso 28a]

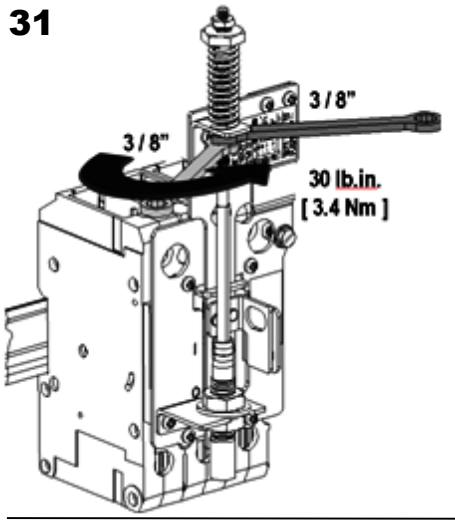
30



1X

Step 28b [Paso 28b]

31



Test: Reset
[Prueba: Restablecer]

32

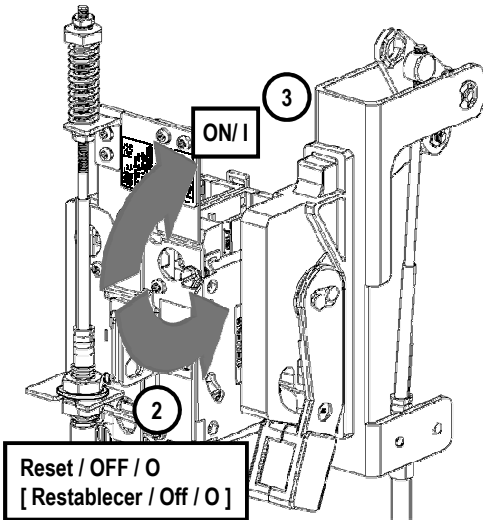
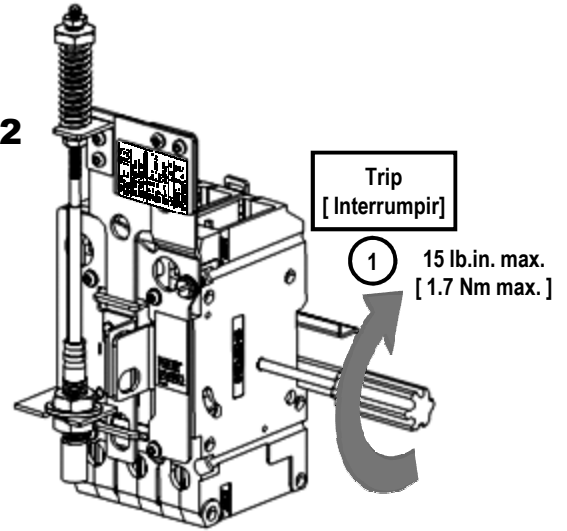
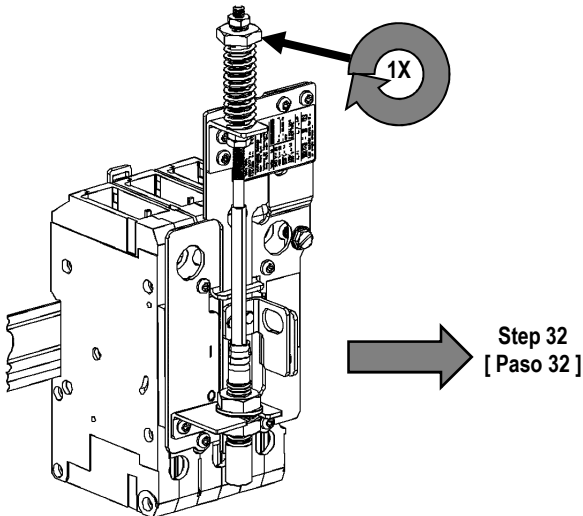
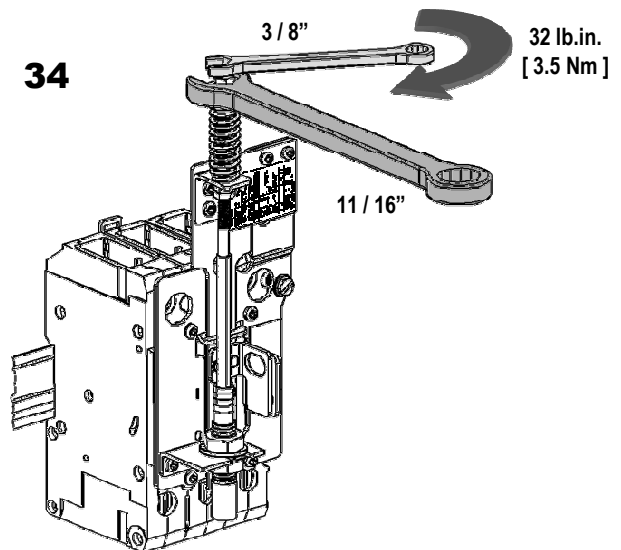


Image	Result [Resultado]		Step [Paso]
	Image	Image	
OFF / O → ON / I	ON / I	OK	34
	OFF / O	OK	33

33

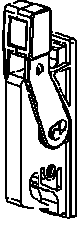
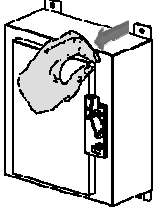
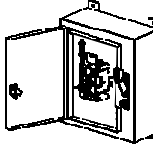
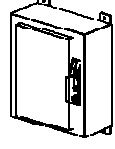





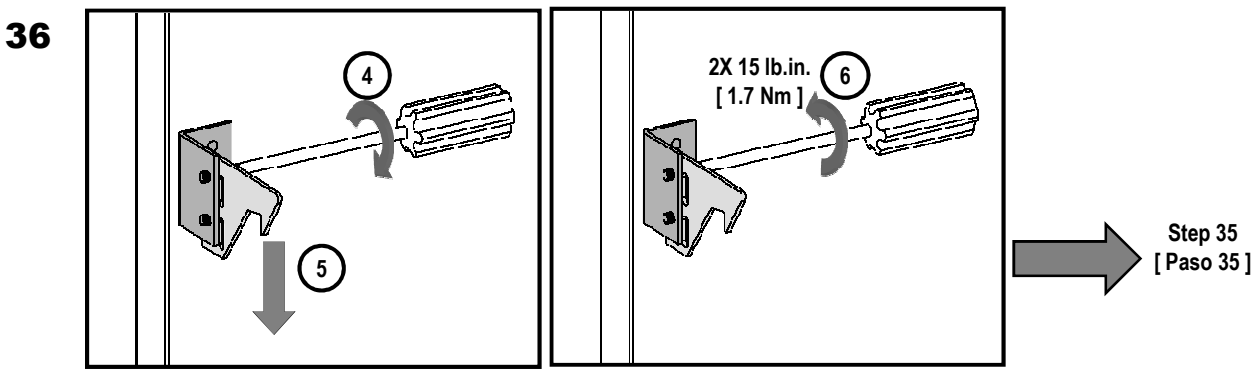
34


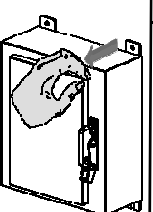
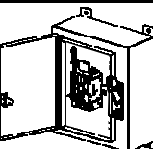
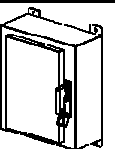
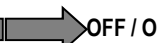




	⚠ Danger	⚠ Peligro	⚠ Danger
	Hazardous Voltage. Will cause death or serious injury.	Tensión peligrosa. Puede causar la muerte o lesiones graves.	Tension dangereuse. Danger de mort ou risque de blessures graves.
	Turn off and lock out all power supplying this device before working on this device. Replace all covers before power supplying this device is turned on.	Desenergice totalmente antes de instalar o darle servicio. Reemplace todas las barreras y cubiertas antes de energizar el interruptor.	Couper l'alimentation de l'appareil et barrer avant de travailler. Remplacez tous les couverts avant que l'alimentation de pouvoir soit alimenté.

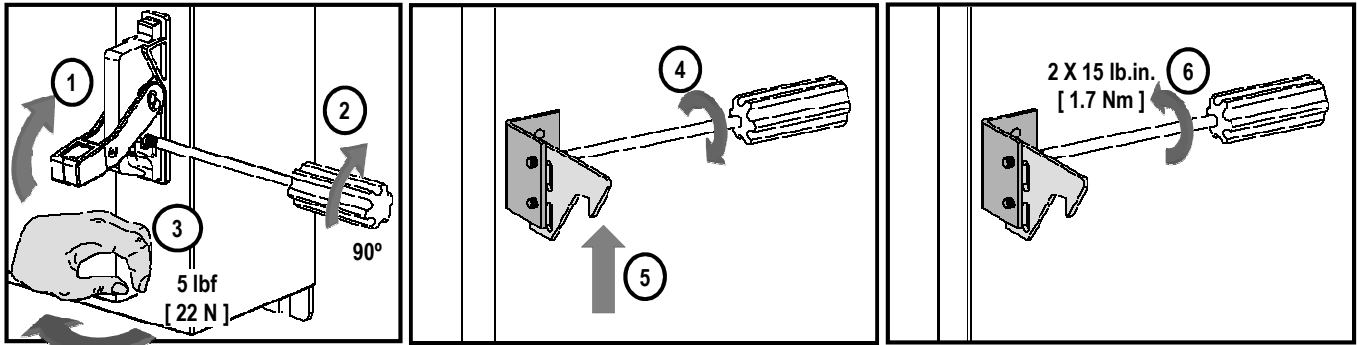
Test: Door Latch
[Prueba: Seguro de la Puerta]

35			Result [Resultado]		Step [Paso]
			 Open [Abierta]	 Closed [Cerrados]	
	OFF / O  ON / I	5 lbf [22 N]			37
					36



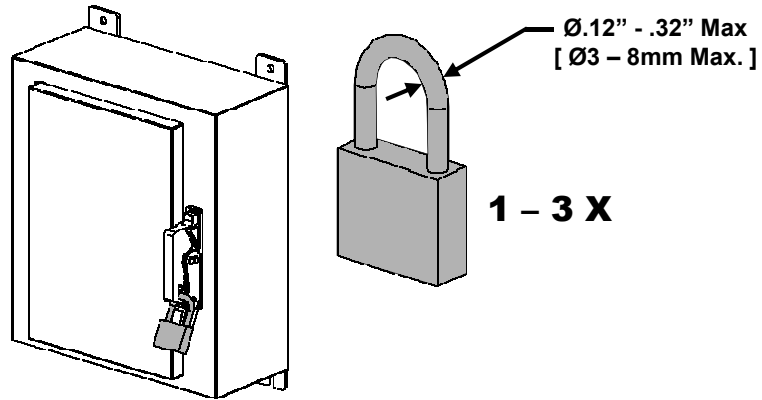
37			Result [Resultado]		Step [Paso]
			 Open [Abierta]	 Closed [Cerrados]	
	ON / I  OFF / O	5 lbf [22 N]			Finished / Ready [Terminado / Listo]
					38

38



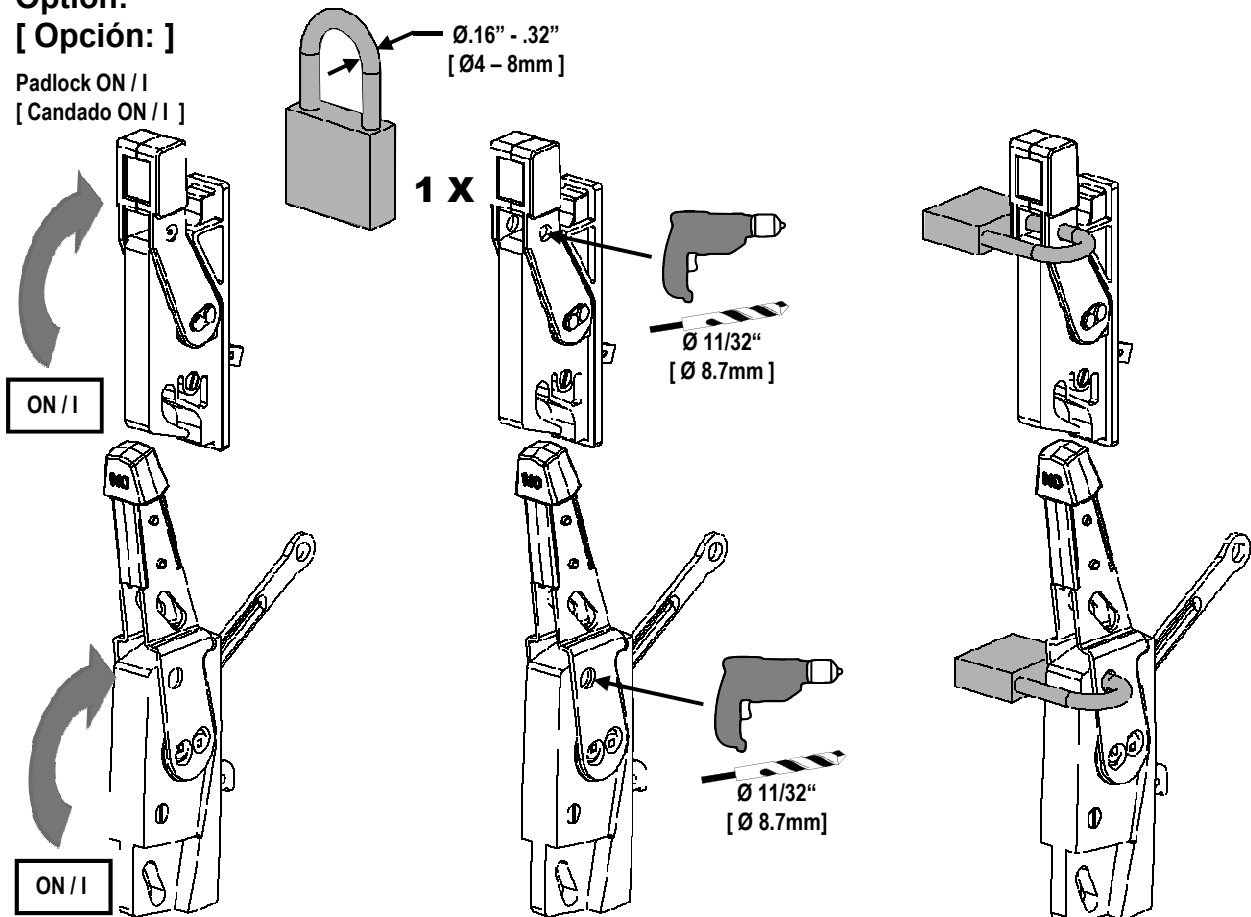
Step 37
[Paso 37]

Option:
[Opción:]



Option:
[Opción:]

Padlock ON / I
[Candado ON / I]



Technical Support:

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Internet: www.usa.siemens.com/powerdistribution