

! DANGER / DANGER / PELIGRO**HAZARDOUS VOLTAGE**

- This equipment must be installed and serviced only by qualified electrical personnel.
- Turn off all power supplying this equipment before working on or inside equipment.
- Always use a properly rated voltage sensing device to confirm power is off.
- Replace all devices, doors, and covers before turning on power to this equipment.
- Maintain electrical clearances between cable and live parts.

PRESENCE OF MAGNET

- Keep a minimum distance (>4in / 10cm) from medical equipments, inclusive pacemakers and other medical implants.

Failure to follow these instructions will result in death or serious injury.

TENSION DANGEREUSE

- L'installation et l'entretien de cet appareil ne doivent être effectués que par du personnel qualifié.
- Coupez l'alimentation de cet appareil avant d'y travailler.
- Utilisez toujours un dispositif de détection de tension à valeur nominale approprié pour confirmer que toute alimentation est coupée.
- Remplacez tous les dispositifs, les portes et les couvercles avant de mettre cet appareil sous tension.
- Maintenez les distances d'isolement électrique entre le câble et les pièces sous tension.

PRESENCE D'AIMANT

- Maintenir une distance minimale (> 4in / 10cm) avec tous les équipements médicaux, incluant les pacemakers et autres implants actifs.

Si ces précautions ne sont pas respectées, cela entraînera la mort ou des blessures graves.

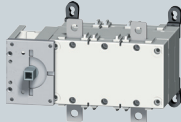
VOLTAJE PELIGROSO

- Este equipo debe ser instalado y operado únicamente por personal cualificado.
- Desconectar cualquier suministro eléctrico al equipo antes de trabajar con el mismo.
- Utilizar siempre un multimetro correctamente calibrado para confirmar que el equipo no está alimentado.
- Vuelva a colocar todos los dispositivos, puertas y cubiertas antes de volver a dar tensión al equipo
- Mantenga las distancias eléctricas adecuadas entre el cable y las partes activas

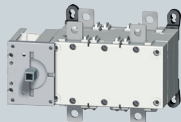
PRESENCIA DE MAGNETISMO

- Deje una distancia mínima (> 4in / 10cm) con equipos médicos, incluso marcapasos y otros implantes médicos.

No seguir estas instrucciones puede provocar daños graves e incluso la muerte.

100A to 250A & IEC 315A

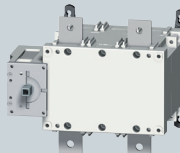
- 1 27PV2011
- 2 27PV2021
- 3 27PV2026



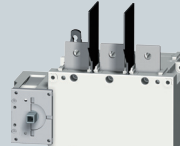
- 4 27PV5009 / 26PV5010*
- 5 27PV5019 / 26PV5016*
- 6 27PV5024 / 26PV5025* / 26PV5031*

275A to 350A & IEC 500A

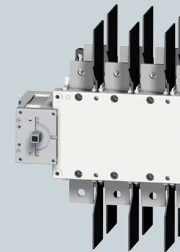
- 7 27PV6026
- 8 27PV6032
- 9 27PV6039



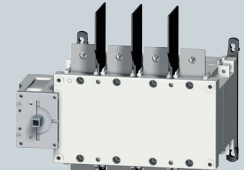
- 10 27PV2028
- 11 27PV2033
- 12 27PV2042



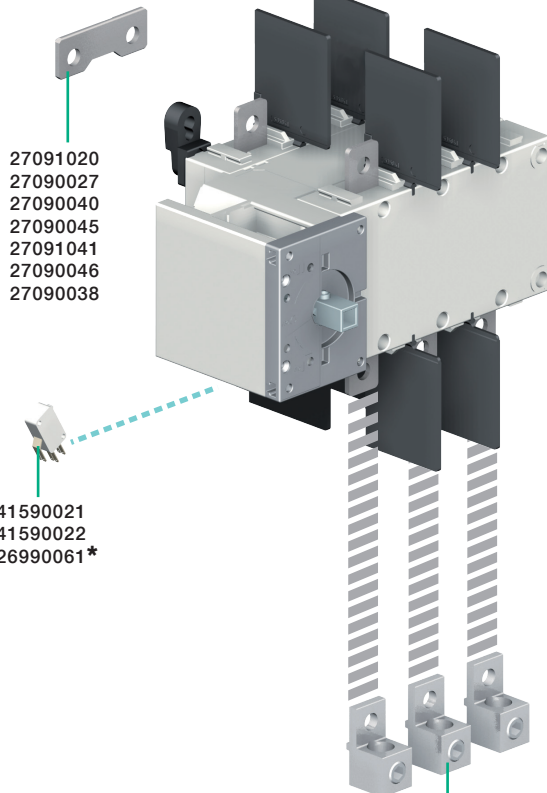
- 13 27PV3027
- 14 27PV3033
- 15 27PV3042



- 16 27PV8026
- 17 27PV8032
- 18 27PV8039

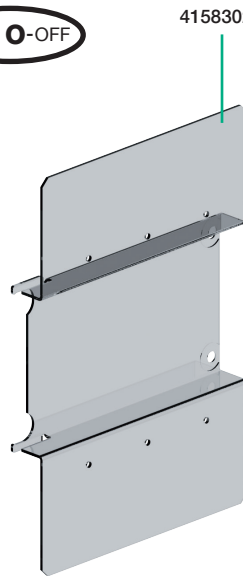


- 19 27PV4027
- 20 27PV4033
- 21 27PV4042

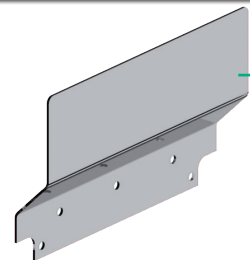
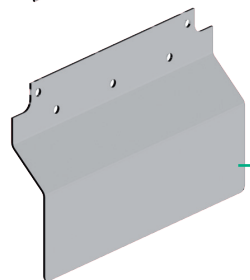
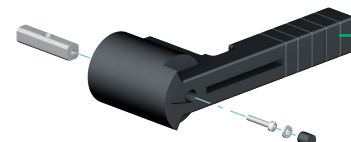
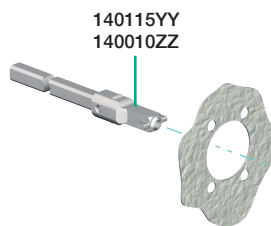
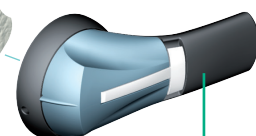
Switch and accessories**L'interrupteur et ses accessoires****El interruptor y sus accesorios**

- 27091020
- 27090027
- 27090040
- 27090045
- 27091041
- 27090046
- 27090038

- 41590021
- 41590022
- 26990061*



41583021

41583041
4158404141583041
4158404141994012
11221113*140115YY
140010ZZ

142X6111 / 142X2111 / 142X2311 / 142Y2911 / 142Y6911
143X7111 / 143X3111 / 143X3311 / 143Y3911 / 143Y7911

39542020 / 39543020 / 39544020 / 39546020
39542025 / 39543025 / 39544025
39542041 / 39544041

YY = 19, 20, 22, 26, 32, 40, 54, 58, 63 or 75
ZZ = 20, 25, 32, 40

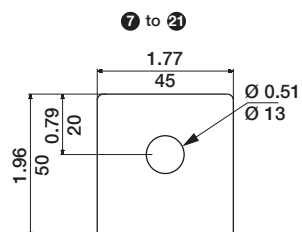
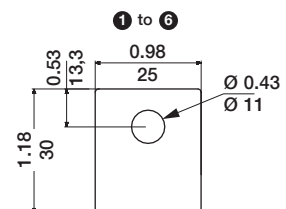
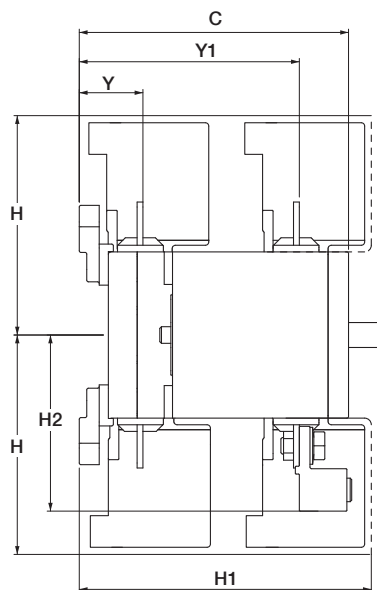
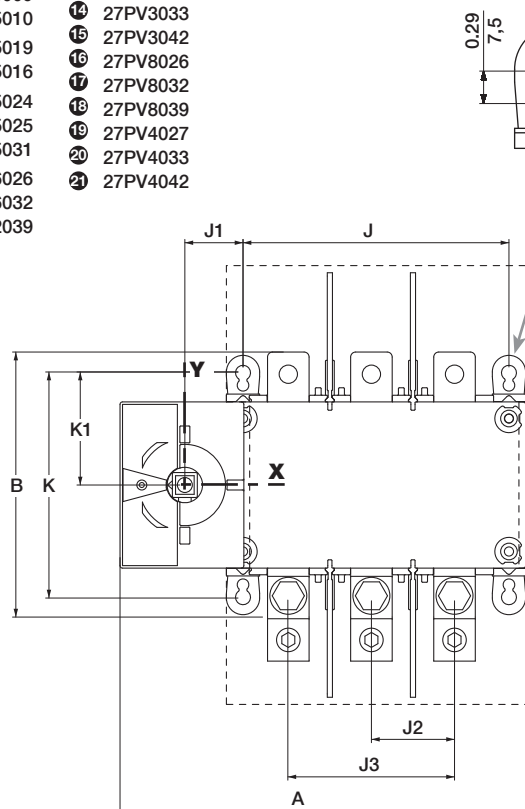
* not UL approved

X = D, E, F or G
Y = D or E

Keep the instruction sheet, it is necessary for the mounting of the accessories.
Ne jetez pas cette notice : elle sera nécessaire pour le montage des accessoires.
No tirar esta noticia, porque es necesaria para el montaje de los accesorios.

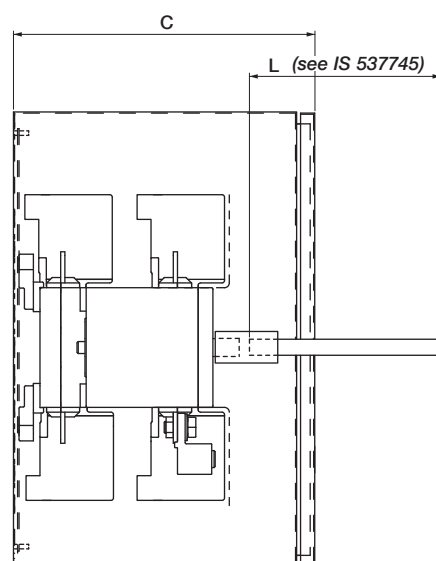
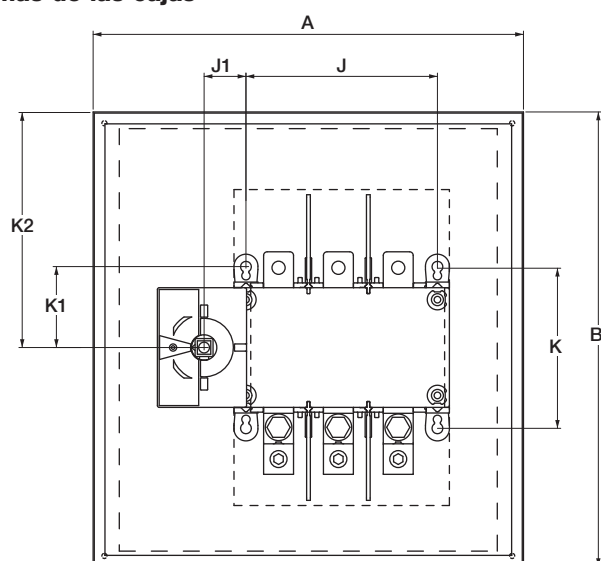
- 1** 27PV2011 **10** 27PV2028
2 27PV2021 **11** 27PV2033
3 27PV2026 **12** 27PV2042
4 { 27PV5009 **13** 27PV3027
26PV5010 **14** 27PV3033
5 { 27PV5019 **15** 27PV3042
26PV5016 **16** 27PV8026
27PV5024 **17** 27PV8032
6 { 26PV5025 **18** 27PV8039
26PV5031 **19** 27PV4027
7 27PV6026 **20** 27PV4033
8 27PV6032 **21** 27PV4042
9 27PV2039

Dual dimensions in/mm
 Double dimensions in/mm
 Doble dimensiones in/mm



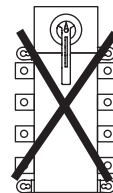
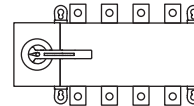
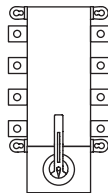
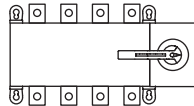
	A		B		C		H		H1		H2 max.		J		J1		J2		J3		K		K1		Y		Y1	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
123456	9.60	244	6.30	160	6.37	162	5.08	129	6.93	176	4.21	107	6.30	160	1.37	35	/	/	3.93	100	5.31	135	2.65	67,5	1.51	38,5	5.21	132.5
101112	11.85	301	10.23	260	9.41	239	8	203	6.51	165,5	6.53	166	8.26	210	1.37	35	/	/	5.11	130	7.67	195	2.70	68,5	2.04	52	7.48	190
789131415	11.85	301	10.23	260	9.39	238.5	8	203	6.51	165,5	6.53	166	8.26	210	1.37	35	2.56	65	/	/	7.67	195	2.70	68,5	2.02	51.5	7.44	189
161718192021	14.21	361											10.63	270														

Minimum enclosure dimensions
Dimensions minimum des coffrets
Dimensiones mínimas de las cajas



	A		B		C		J		J1		K		K1		K2	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
1 2 3 4 5 6	20	508	24	610	10	254	6.30	160	1.37	35	5.31	135	2.65	67,5	15	381
7 8 9 10 11 12 13 14 15							8.26	210								
16 17 18 19 20 21	36	914	48	1219	20	508			1.37	35	7.67	195	2.70	68,5	24	610

Mounting orientation
Sens de montage
Sentido de montaje



Connection with LUGS (UL application)
Raccordement avec bornes à cage (application UL)
Conexión con bornes (aplicación UL)

Lugs
 Bornes à cage
 Bornes

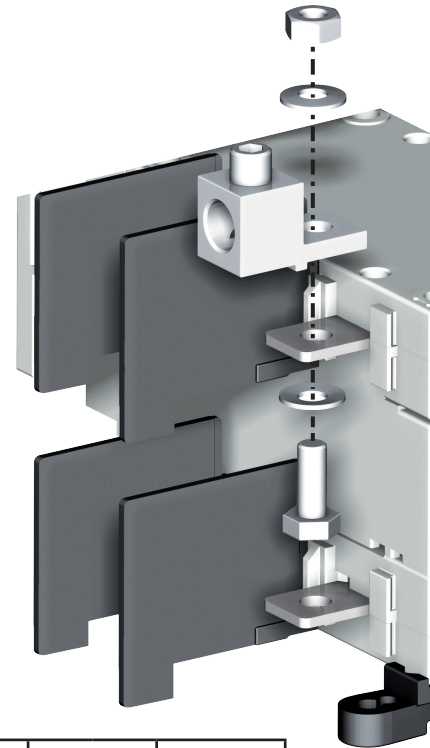
USED FOR
 UTILISE POUR
 UTILIZADO PARA

39542020 / 39543020 / 39544020
 39542025 / 39543025 / 39544025

27PV2011 / 27PV2021 / 27PV2026
 27PV5009 / 27PV5019 / 27PV5024

39542040 / 39543040 / 39544040
 39542041 / 39543041 / 39544041

27PV6026 / 27PV6032 / 27PV2028 / 27PV6039
 27PV2033 / 27PV2042 / 27PV3027 / 27PV3033
 27PV3042 / 27PV8026 / 27PV8032 / 27PV8039
 27PV4027 / 27PV4033 / 27PV4042



Ref. lugs Ref. bornes à cage Ref. bornes	Designation Désignation Designación	Quantity per reference. Quantité par ref. Cantidad por referencia	Size / Section Sección (AWG)		Openings per lug. Nombre de points de connexion. Numero de puntos de conexión.	Torque Couple Par de apriete		Size
			min.	max.		lb-in	Nm	
39542020 39544020	CMC LA300-R	2 4	# 6	300 Kcmil	1	160	18	13
39542025 39544025	CMC DLA-125	2 4	# 14	2/0	2	47	5.4	10
39542040 39543040 39544040	CMC LA630-R	2 3 4	# 4 1/0	600 Kcmil 250 Kcmil	1 2	310	35	17
39542041 39543041 39544041	PANDUIT LAM2A 350	2 3 4	# 6	350 Kcmil	2	398	45	19

Connection with cables and bars (IEC application)
Raccordement câble et barre (application CEI)
Conexión con cables y pletinas (aplicación IEC)

Ie	Nominal Cu cable section Section nominale câbles rigides Cu Sección máx. de cables de cobre rígidos	Maximum Cu busbar width Largeur max. barre Cu Largo máx. (barra cobre)	Min./Max. tightening torque Couple de serrage min./max. Par de apriete mini./maxi.	
100 A	35 mm ²	1.26 in / 32 mm	177 lb-in / 20 Nm	230 lb-in / 26 Nm
125 A	50 mm ²	1.26 in / 32 mm	177 lb-in / 20 Nm	230 lb-in / 26 Nm
160 A	70 mm ²	1.26 in / 32 mm	177 lb-in / 20 Nm	230 lb-in / 26 Nm
200 A	95 mm ²	1.26 in / 32 mm	177 lb-in / 20 Nm	230 lb-in / 26 Nm
250 A	120 mm ²	1.26 in / 32 mm	177 lb-in / 20 Nm	230 lb-in / 26 Nm
250 A ⁽¹⁾	120 mm ²	1.57 in / 40 mm	354 lb-in / 40 Nm	398 lb-in / 45 Nm
315 A ⁽²⁾	185 mm ²	1.26 in / 32 mm	177 lb-in / 20Nm	230lb-in / 26Nm
320 A	185 mm ²	1.57 in / 40 mm	354 lb-in / 40 Nm	398 lb-in / 45 Nm
400 A	240 mm ²	1.57 in / 40 mm	354 lb-in / 40 Nm	398 lb-in / 45 Nm
500 A	2 x 150 mm ²	1.57 in / 40 mm	354 lb-in / 40 Nm	398 lb-in / 45 Nm

Note : Cu or Al cables or bars are allowed

⁽¹⁾ 27PV6026 / 27PV2028 / 27PV3027 / 27PV8026 / 27PV4027

⁽²⁾ 26PV5031

Mounting of terminal covers
Montage des capots
Montaje de los Cubrebornes

Terminal cover
Ecrans
Cubrebornes

USED FOR
UTILISE POUR
UTILIZADO PARA

41583021 → 1 to 6

41583041 → 7 to 15

41584041 → 16 to 21

13.3 lb-in
1,5 Nm
pozidriv n°1

22 lb-in
2,5 Nm
Flat 5

Mounting of auxiliary contacts
Montage des contacts auxiliaires
Montaje de los contactos auxiliares

Terminal cover
Ecrans
Cubrebornes

USED FOR
UTILISE POUR
UTILIZADO PARA

41583021 → 1 to 6

41583041 → 7 to 15

41584041 → 16 to 21

13.3 lb-in
1,5 Nm
pozidriv n°1

22 lb-in
2,5 Nm
Flat 5

Terminal cover
Ecrans
Cubrebornes

USED FOR
UTILISE POUR
UTILIZADO PARA

41583021 → 1 to 6

41583041 → 7 to 15

41584041 → 16 to 21

13.3 lb-in
1,5 Nm
pozidriv n°1

22 lb-in
2,5 Nm
Flat 5

Terminal cover
Ecrans
Cubrebornes

USED FOR
UTILISE POUR
UTILIZADO PARA

41583021 → 1 to 6

41583041 → 7 to 15

41584041 → 16 to 21

13.3 lb-in
1,5 Nm
pozidriv n°1

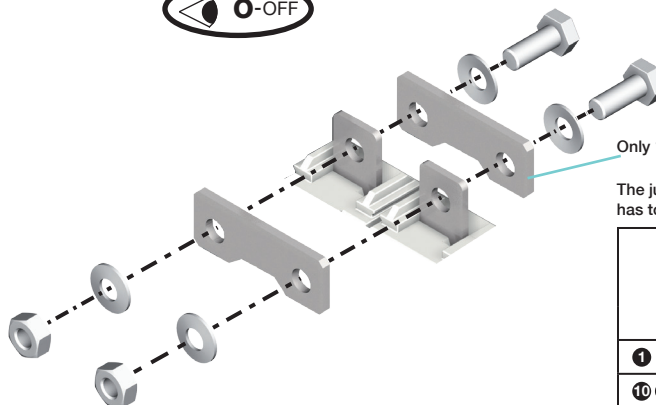
22 lb-in
2,5 Nm
Flat 5

Mounting of jumpers **Montage des barres de pontage** **Montaje de las pletinas de union**

Jumpers
 Barres de pontage
 Pletina de union

USED FOR
 UTILISE POUR
 UTILIZADO PARA

27091020 → 1 2 3 4 5 6
 27091041 → 10 11 12



Only for: 6, $I_e > 250A$
 12, $I_e \geq 400A$
 The jumper reference (27091020 or 27091041)
 has to be ordered twice

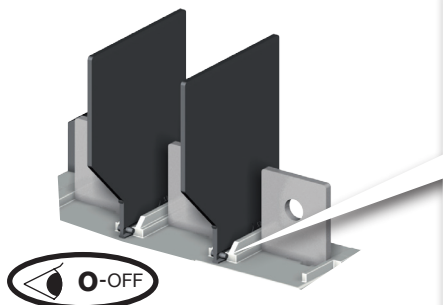
	Torque Couple Par de apriete		Size
	lb-in	Nm	
1 to 6	230	26	17
10 11 12	398	45	19

Jumpers
 Barres de pontage
 Pletina de union

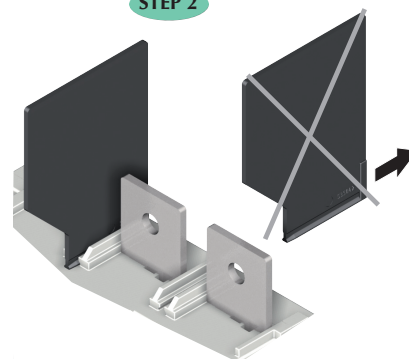
USED FOR
 UTILISE POUR
 UTILIZADO PARA

27090027 → 7 to 21
 27090040 → 9 15 18 21
 27090045 → 9 18 21
 27090046 → 9 15 18 21

STEP 1



STEP 2

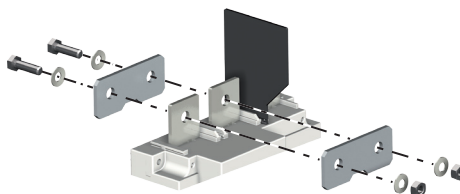


STEP 3

	Size 19
Torque Couple Par de apriete	
lb-in	Nm
398	45

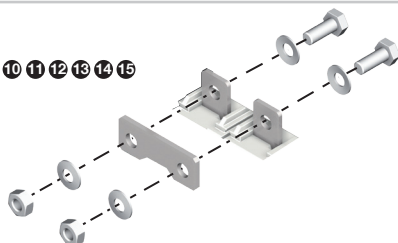
Limited to configurations : (a)

27090038 → 7 8 9 16 17 18



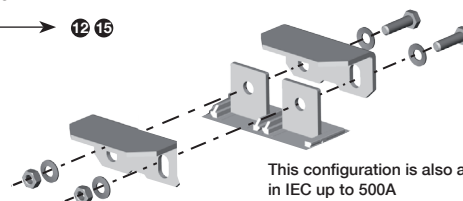
$I_e \leq 325A$

27090027 → 10 11 12 13 14 15



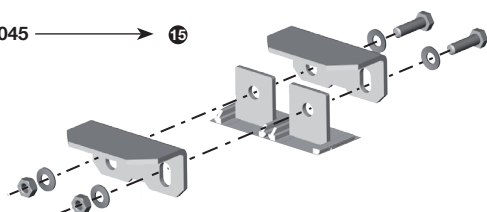
$I_e \leq 350A$

27090040 → 12 15

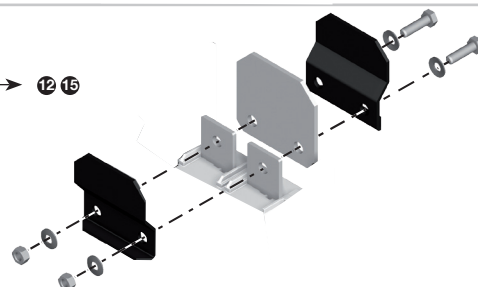


This configuration is also allowed
 in IEC up to 500A

27090045 → 15



27090046 → 12 15





POLE CONNECTION IN SERIES COMPULSORY

For comprehension reason, only one type of connection is shown. As all poles are independent and non polarized, the pole connections in series can be done between adjacent or non-adjacent poles and on the same or opposite side of the same switch layer. The minimum number of pole to be connected in series must be as shown below for the given technical characteristics. Wire bending space as well as spacings have to be according to NEC or relevant installation standard. For this, the enclosure dimension might have to be increased.

For bridging bar and serial connections not supplied by Socomec, thermal effect have to be checked.

For multi-circuit products, the signs ① ② ③ ④ represent wiring for each circuit.

2 or more separated circuits can also be connected together on the inverter side.



CONFIGURATION RACCORDEMENT OBLIGATOIRE

Pour une meilleure compréhension, seul un type de raccordement est décrit. Tous les pôles sont indépendants et non polarisés, le raccordement des pôles en série peut être réalisé entre pôles adjacents ou non, sur le même coté ou le coté opposé du même boîtier (avant ou arrière). Le nombre minimum de pôles à raccorder en série doit correspondre aux indications ci-dessous pour les caractéristiques techniques mentionnées. Le rayon de courbure des câbles ainsi que les distances entre conducteurs/parois doivent être selon le NEC ou la norme d'installation. Pour cela, la dimension minimum du coffret pourrait être augmentée. Pour les connexions série entre pôles/barres de pontages non fournies par Socomec, les impacts thermiques doivent être vérifiés.

Pour les produits multi-circuits, les chiffres ① ② ③ ④ indiquent le raccordement de chaque circuit.

2 circuits ou plus peuvent aussi être connectés ensemble du coté de l'onduleur.



CONEXIÓN DE LOS POLOS EN SERIES OBLIGATORIO

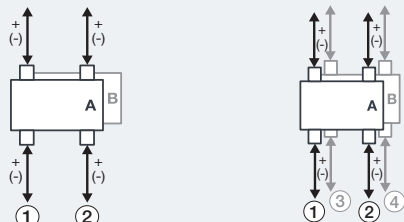
Para mayor claridad, sólo se describe un tipo de conexión. Todos los polos son independientes y sin polarización así que la conexión de los polos en serie se puede realizar entre polos que están contiguos o no, en el mismo lado o en el lado opuesto del producto. Siempre de un mismo equipo. El número mínimo de polos a conectar en serie debe corresponder a las siguientes indicaciones para las características técnicas mencionadas. El radio de curvatura de los cables y las distancias entre las partes activas y pasivas respetar las normas de instalación NEC. Por ello, la dimensiones mínimas de la envolvente deberían ser aumentadas. Para la conexión serie entre los polos / pletinas de puentado no suministras por Socomec debenser verificados los efectos térmicos.

Para productos con multi-circuitos, las cifras ①,②,③ y ④ representan la conexión de cada circuito.

2 o varios circuitos separados se pueden conectar juntos en el lado del inversor.

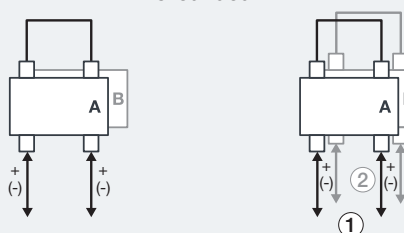
UL 100A - 250A
IEC 100A - 315A

600Vdc : 98B, CSA C22.2 Nr. 4, IEC 60947-3 (grounded) [one pole per circuit]

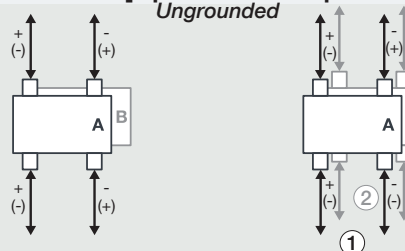


27PV5009
26PV5010
27PV5019
26PV5016
27PV5024
26PV5025
26PV5031
27PV2011
27PV2021
27PV2026

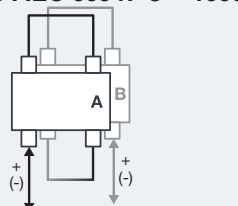
1000Vdc : 98B, IEC 60947-3 - 600Vdc : CSA C22.2 Nr. 4 [2 poles in series per circuit]
Grounded



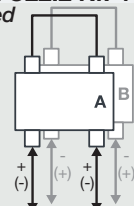
Ungrounded



1500Vdc : IEC 60947-3 - 1000Vdc : 98B - 600Vdc : CSA C22.2 Nr. 4 [4 poles in series]
Grounded

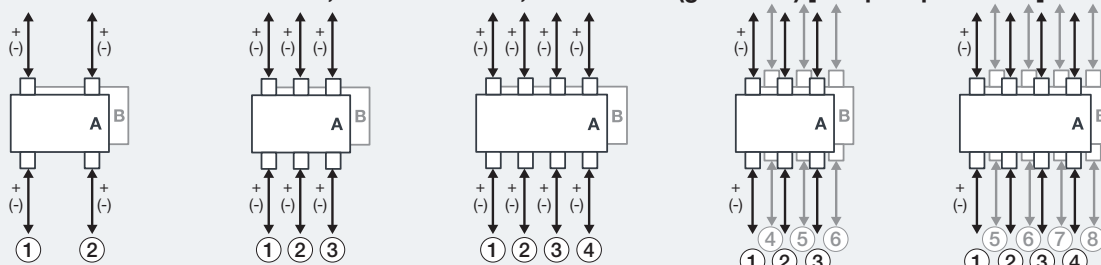


Ungrounded



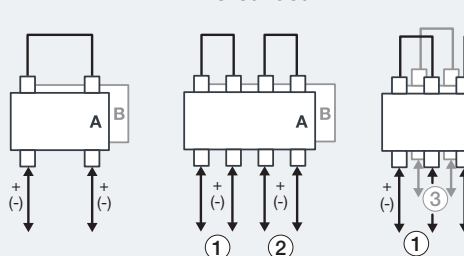
UL 275A - 400A
IEC 275A - 500A

600Vdc : 98B, CSA C22.2 Nr. 4, IEC 60947-3 (grounded) [one pole per circuit]

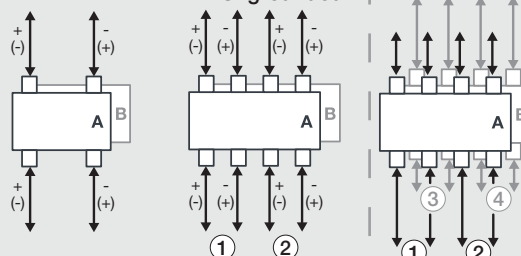


27PV6026
27PV6032
27PV6039
27PV2028
27PV2033
27PV2042
27PV3027
27PV3033
27PV3042
27PV8026
27PV8032
27PV8039
27PV4027
27PV4033
27PV4042

1000Vdc : 98B, IEC 60947-3 - 600Vdc : CSA C22.2 Nr. 4 [2 poles in series per circuit]
Grounded

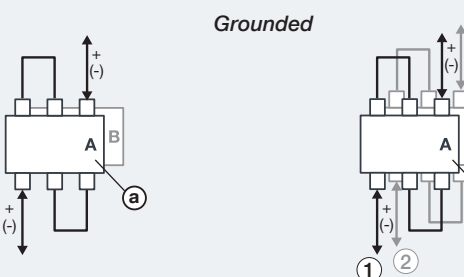


Ungrounded

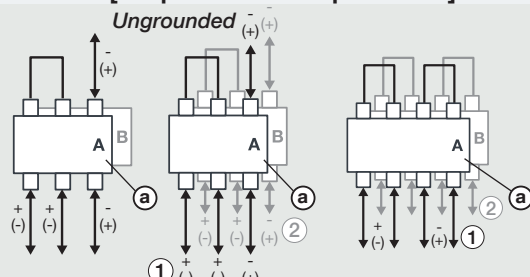


For each circuit :
① ② ③ ④

1500Vdc : IEC 60947-3 : 98B - 600Vdc : CSA C22.2 Nr. 4 [3-4 poles in series per circuit]
Grounded



Ungrounded



Grounded systems : in some installation standards, this configuration might not be allowed .

For ungrounded systems, see NEC 690.35 (NEC2008, NEC2011, NFPA70).