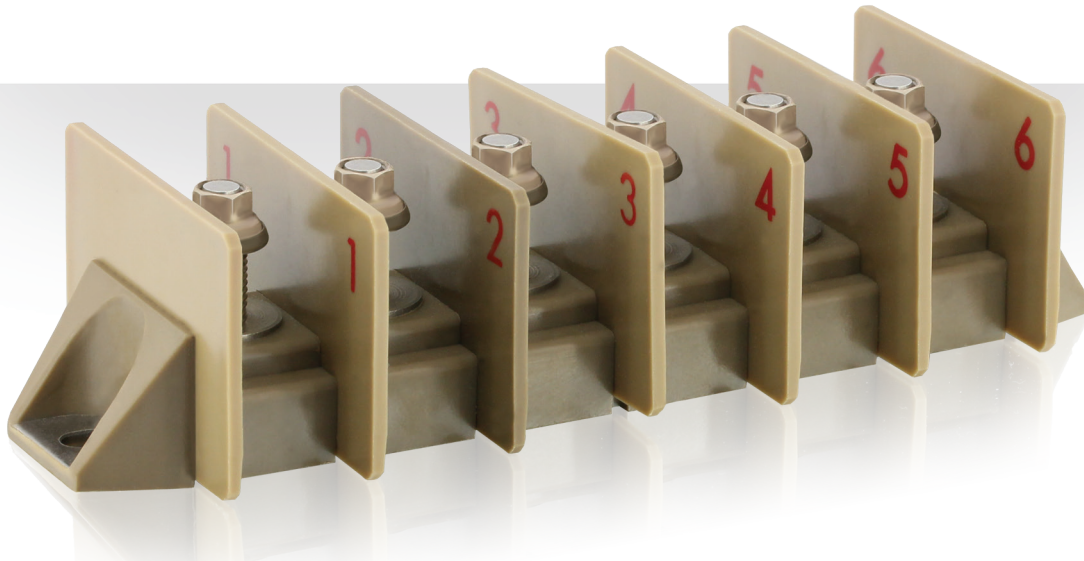


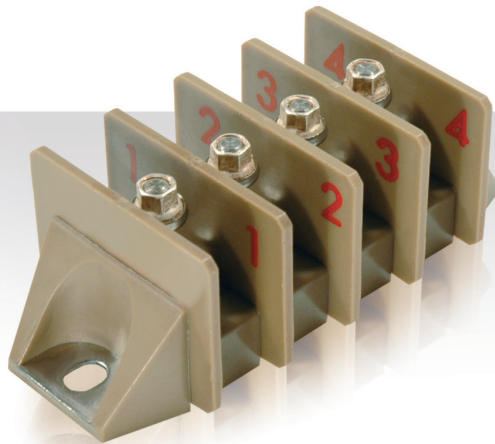
# 209 Series Terminal Blocks



## Terminal Blocks for Power Distribution

Distribution of electrical current for aircraft equipment.

- Versatility** ■ The terminal blocks allow connection from 1 to 12 terminals.  
A shunt can link the terminals.
- Easy to install** ■ Screw mounting.  
Covers are available to electrically and mechanically protect the connections.
- Flight proven** ■ Used on major Airbus programs: A300, A320, A321, A319, A330, A340, A318, A380.
- Airbus qualified** ■ NSA 937903 / 937904 / 937905 / 937906, ASNE 0421 / 0467.



## Description

- The terminal blocks 209 Series allow connection from 1 to 12 terminals
- A shunt can link the terminals
- Covers are available to electrically and mechanically protect the connections
- Technical characteristics following ASNE 0826

## Technical features

### Mechanical

- **Terminals:** stainless steel
- **Block:** thermoplastic UL 94V0
- **Insulator:** peek
- **Shunt:** nickel over brass
- **Cover:** PTFE
- **Pillar bolt:** stainless steel
- **Vibration:** 3g random 10 to 2000Hz

### Electrical

| Specification | Working voltage | Current |
|---------------|-----------------|---------|
| NSA 937903    | 400 V           | 25 A    |
| NSA 937906    | 600V            | 100 A   |
| NSA 937905    | 600V            | 100A    |
| ASNE 0421     | 600V            | 125 A   |
| ASNE 0647     | 600V            | 175 A   |
| NSA 937904    | 600V            | 210 A   |
| ASNE 0467     | 600V            | 210 A*  |

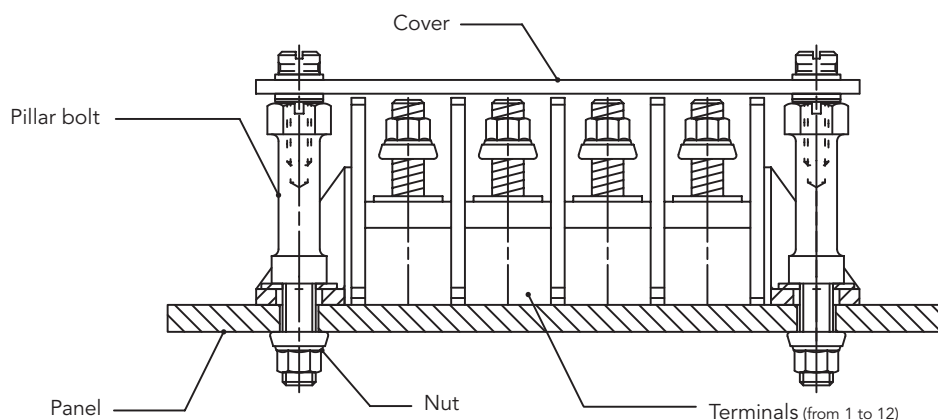
\* Indicative current depending on cables and terminals

- **Insulation resistance:** 500 000 MΩ
- **Dielectric rigidity:** 5 kV rms

### Environmental

- **Temperature range:**  
-55°C to +210°C  
+250°C during 4000 hours  
Peak at +300°C
- **Resistance to fluids:** Fuel IPS-NATO F44
- **Synthetic hydraulic fluid:**  
SAE-Skydrol 500B4  
AS1241-Skydrol LD4
- **Mineral lubricant:**  
MIL-L 7870A - NATO 0142
- **Synthetic lubricant:**  
MIL-L 23699 - NATO 0156
- **Cleaning fluid:** MIL-C 25769 diluted
- **Propanol + white spirit:**  
Azeotrope 113 + methanol de-icing fluid  
NATO 5742

## Terminal block assembly



## Ordering information

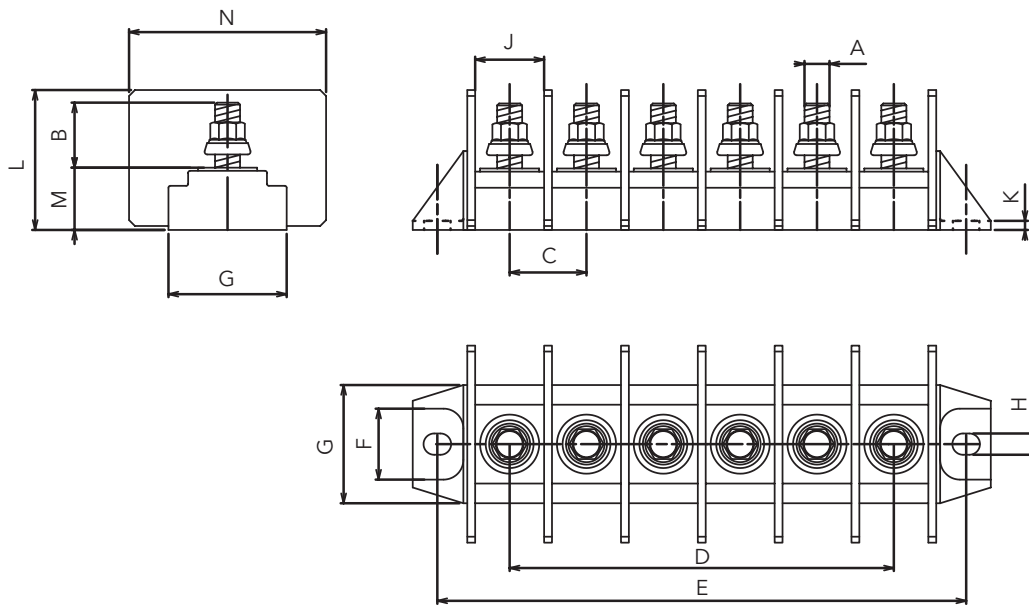
| Number of terminals | Terminals |        |       | Part Numbers                  |          |                    |             |                                |               |
|---------------------|-----------|--------|-------|-------------------------------|----------|--------------------|-------------|--------------------------------|---------------|
|                     | Ø         | Length | Pitch | Terminal blocks               | Cover    | Shunt              | Pillar bolt | Washer (thickness)             | Specification |
| 1                   | 9.52      | 17.70  | 28.00 | 209400U01002                  | 209S4001 | -                  | 209D012     | -                              | NSA937904     |
|                     | 9.52      | 24.00  | 28.00 | 209410U01002                  | 209S4001 | -                  | 209D009     | -                              | ASNE0467      |
|                     | 9.52      | 24.00  | 28.00 | 209410U01003<br>(with washer) | 209S4001 | -                  | 209D009     | -                              | ASNE0467      |
| 2                   | 3.50      | 12.70  | 9.00  | 209100U02002                  | 209S1002 | 209T120            | 209D008     | 209D113 (2mm)<br>209D114 (4mm) | NSA937903     |
| 3                   | 9.52      | 17.70  | 28.00 | 209400U03002                  | 209S4003 | -                  | 209D012     | -                              | NSA937904     |
|                     | 4.82      | 23.00  | 14.50 | 209210U03002                  | 209S2003 | 209T121<br>209T131 | 209D009     | 209D116 (9mm)                  | NSA937905     |
|                     | 9.52      | 24.00  | 28.00 | 209410U03003<br>(with washer) | 209S4003 | -                  | 209D009     | -                              | ASNE0467      |
| 4                   | 9.52      | 17.70  | 28.00 | 209400U04002                  | 209S4004 | -                  | 209D012     | -                              | NSA937904     |
|                     | 4.82      | 14.00  | 14.50 | 209200U04002                  | 209S2004 | -                  | 209D010     | 209D115 (2mm)                  | NSA937906     |
| 5                   | 3.50      | 12.70  | 9.00  | 209100U05002                  | 209S1005 | 209T120            | 209D008     | 209D113 (2mm)<br>209D114 (4mm) | NSA937903     |
| 6                   | 4.82      | 23.00  | 14.50 | 209210U06002                  | 209S2006 | 209T121<br>209T131 | 209D009     | 209D116 (9mm)                  | NSA937905     |
|                     | 6.35      | 16.50  | 19.50 | 209300U06002                  | 209S3006 | -                  | 209D011     | -                              | ASNE0421      |
|                     | 6.35      | 25.00  | 23.50 | 209311U06002                  | 209S3106 | -                  | 209D009     | -                              | ASNE0647      |
| 10                  | 4.82      | 23.00  | 14.50 | 209210U10002                  | 209S2010 | 209T121<br>209T131 | 209D009     | 209D116 (9mm)                  | NSA937905     |
| 12                  | 4.82      | 23.00  | 14.50 | 209210U12002                  | 209S2012 | 209T121<br>209T131 | 209D009     | 209D116 (9mm)                  | NSA937905     |

## Cross reference

| Designation                        | Souriau part number             | NSA part number |                 |
|------------------------------------|---------------------------------|-----------------|-----------------|
| Terminal block<br>(without washer) | 209 1 0 0 U 02 002              | NSA 937903 A02  |                 |
|                                    | 209 1 0 0 U 05 002              | NSA 937903 A05  |                 |
|                                    | 209 2 0 0 U 04 002              | NSA 937906 A04  |                 |
|                                    | 209 2 1 0 U 03 002              | NSA 937905 A03  |                 |
|                                    | 209 2 1 0 U 06 002              | NSA 937905 A06  |                 |
|                                    | 209 2 1 0 U 10 002              | NSA 937905 A10  |                 |
|                                    | 209 2 1 0 U 12 002              | NSA 937905 A12  |                 |
|                                    | 209 3 0 0 U 06 002              | ASNE 0421 A06   |                 |
|                                    | 209 3 1 1 U 06 002              | ASNE 0647 A06   |                 |
|                                    | 209 4 0 0 U 01 002              | NSA 937904 A01  |                 |
|                                    | 209 4 0 0 U 03 002              | NSA 937904 A03  |                 |
|                                    | 209 4 0 0 U 04 002              | NSA 937904 A04  |                 |
|                                    | 209 4 1 0 U 01 002              | ASNE 0467 A01   |                 |
|                                    | 209 4 1 0 U 01 003              | ASNE 0467 R01   |                 |
|                                    | Terminal block<br>(with washer) | 209 4 1 0       | ASNE 0467 R03   |
|                                    |                                 | 209 S 1002      | NSA 937903 CA02 |
| Shunt                              | 209 T 120                       | NSA 937903 SH02 |                 |
|                                    | 209 T 121                       | NSA 937905 SH02 |                 |
|                                    | 209 T 131                       | NSA 937905 SH03 |                 |

| Designation | Souriau part number | NSA part number |
|-------------|---------------------|-----------------|
| Cover       | 209 S 1005          | NSA 937903 CA05 |
|             | 209 S 2003          | NSA 937905 C03  |
|             | 209 S 2004          | NSA 937906 C04  |
|             | 209 S 2006          | NSA 937905 C06  |
|             | 209 S 2010          | NSA 937905 C10  |
|             | 209 S 2012          | NSA 937905 C12  |
|             | 209 S 3006          | ASNE 0421 C06   |
|             | 209 S 3106          | ASNE 0647 C06   |
|             | 209 S 4001          | NSA 937904 C01  |
|             | 209 S 4003          | NSA 937904 C03  |
|             | 209 S 4004          | NSA 937903 C04  |
|             | Pillar bolt         | 209 D 008       |
| 209 D 009   |                     | ASNE 0647 E     |
| 209 D 010   |                     | NSA 937906 E    |
| 209 D 011   |                     | ASNE 0421E      |
| 209 D 012   |                     | NSA 937904 E    |
| Washer      | 209 D 113 XE        | NSA 937903 F02  |
|             | 209 D 114           | NSA 937903 F04  |
|             | 209 D 115           | NSA 937906 F    |
|             | 209 D 116           | NSA 937905 F    |

Dimensions



| Terminal block Part number | Terminals           |             |             |        |       | D      | E      | F     | G     | H     | J     | K    | L     | M     | N     |       |
|----------------------------|---------------------|-------------|-------------|--------|-------|--------|--------|-------|-------|-------|-------|------|-------|-------|-------|-------|
|                            | Number of terminals | Thread      | Ø           | Length |       |        |        |       |       |       |       |      |       |       |       | Pitch |
|                            |                     |             |             | A      | B     |        |        |       |       |       |       |      |       |       |       |       |
| 209400U01002               | 1                   | .3750-24UNF | 9.52        | 17.70  | 28.00 | -      | 45.20  | 17.00 | 30.00 | 5.40  | 26.00 | 2.30 | 35.50 | 14.50 | 50.00 |       |
| 209410U01002               |                     | .3750-24UNF | 9.52        | 24.00  | 28.00 | -      | 45.20  | 17.00 | 30.00 | 5.40  | 26.00 | 2.30 | 41.50 | 14.50 | 50.00 |       |
| 209410U01003               |                     | .3750-24UNF | 9.52        | 24.00  | 28.00 | -      | 45.20  | 17.00 | 30.00 | 5.40  | 26.00 | 2.30 | 41.50 | 14.50 | 50.00 |       |
| 209100U02002               | 2                   | .1380-32UNC | 3.50        | 12.70  | 9.00  | 9.00   | 30.50  | 10.00 | 14.00 | 4.00  | 8.00  | 1.70 | 22.50 | 9.00  | 17.00 |       |
| 209400U03002               | 3                   | .3750-24UNF | 9.52        | 17.70  | 28.00 | 56.00  | 101.20 | 17.00 | 30.00 | 5.40  | 26.00 | 2.30 | 35.50 | 14.50 | 50.00 |       |
| 209210U03002               |                     | .1900-32UNF | 4.82        | 23.00  | 14.50 | 23.00  | 60.70  | 17.00 | 30.00 | 5.40  | 12.50 | 2.30 | 41.80 | 15.80 | 40.00 |       |
| 209410U03003               |                     | .3750-24UNF | 9.52        | 24.00  | 28.00 | 56.00  | 101.20 | 17.00 | 30.00 | 5.40  | 26.00 | 2.30 | 41.50 | 14.50 | 50.00 |       |
| 209400U04002               | 4                   | .3750-24UNF | 9.52        | 17.70  | 28.00 | 84.00  | 129.20 | 17.00 | 30.00 | 5.40  | 26.00 | 2.30 | 35.50 | 14.50 | 50.00 |       |
| 209200U04002               |                     | .1900-32UNF | 4.82        | 14.00  | 14.50 | 43.50  | 75.20  | 17.00 | 30.00 | 5.40  | 12.50 | 2.30 | 30.10 | 15.80 | 40.00 |       |
| 209100U05002               |                     | 5           | .1380-32UNC | 3.50   | 12.70 | 9.00   | 36.00  | 57.50 | 10.00 | 14.00 | 4.00  | 8.00 | 1.70  | 22.50 | 9.00  | 17.00 |
| 209210U06002               | 6                   | .1900-32UNF | 4.82        | 23.00  | 14.50 | 72.50  | 104.20 | 17.00 | 30.00 | 5.40  | 12.50 | 2.30 | 41.80 | 15.80 | 40.00 |       |
| 209300U06002               |                     | .2500-28UNF | 6.35        | 16.50  | 19.50 | 97.50  | 134.20 | 17.00 | 30.00 | 5.40  | 17.50 | 2.30 | 35.50 | 15.80 | 50.00 |       |
| 209311U06002               |                     | .2500-28UNF | 6.35        | 25.00  | 23.50 | 117.50 | 158.20 | 17.00 | 30.00 | 5.40  | 21.50 | 2.30 | 41.50 | 15.80 | 50.00 |       |
| 209210U10002               | 10                  | .1900-32UNF | 4.82        | 23.00  | 14.50 | 130.50 | 162.20 | 17.00 | 30.00 | 5.40  | 12.50 | 2.30 | 41.80 | 15.80 | 40.00 |       |
| 209210U12002               | 12                  | .1900-32UNF | 4.82        | 23.00  | 14.50 | 159.50 | 191.20 | 17.00 | 30.00 | 5.40  | 12.50 | 2.30 | 41.80 | 15.80 | 40.00 |       |

Note: All dimensions are in millimeters (mm)

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