



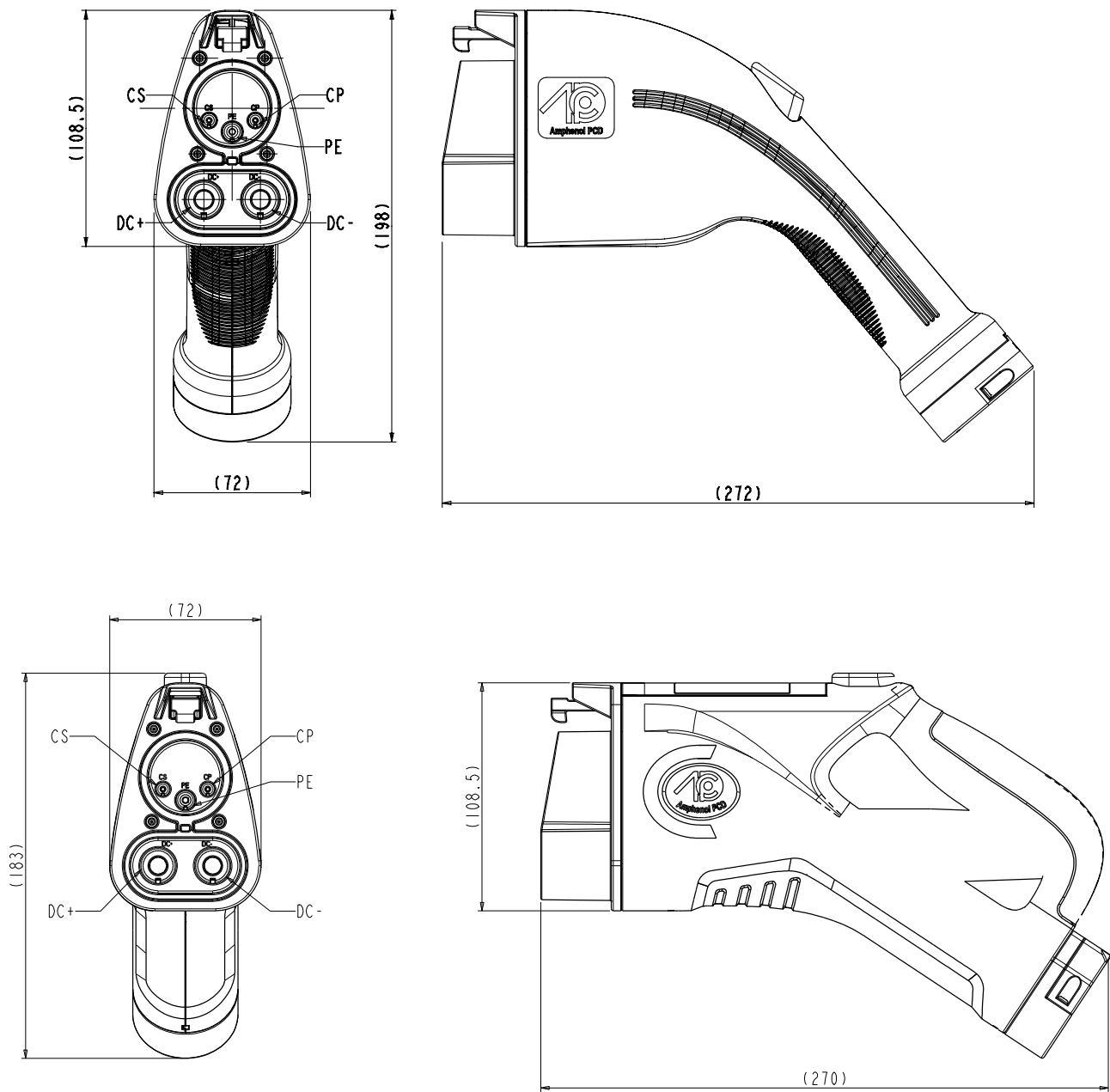
### KEY FEATURES:

Compliant with:  
SAE J1772  
IEC 62196-3  
UL2251

Cooling system:  
2 feed pipes and 2 outlet pipes  
Working pressure: 0 to 7bar

| MECHANICAL                   |                                                                                                      |
|------------------------------|------------------------------------------------------------------------------------------------------|
| Mating cycles                | > 20,000 cycles (unloaded)                                                                           |
| Insertion / withdrawal force | < 100N                                                                                               |
| ELECTRICAL                   |                                                                                                      |
| Rated current                | 600A Max.<br>850A (Peak)                                                                             |
| Rated voltage                | 1000V DC                                                                                             |
| Temperature sensor           | PT1000<br>The two power contacts DC+ and DC- are monitored by temperature-dependent resistor sensors |
| ENVIRONMENTAL                |                                                                                                      |
| Protection degree            | Type 3S<br>IP69                                                                                      |
| Ambient temperature          | -30°C to 50°C                                                                                        |
| MATERIAL                     |                                                                                                      |
| Shell                        | Thermoplastic                                                                                        |
| Contact                      | Copper alloy                                                                                         |
| Inserts                      | Thermoplastic                                                                                        |
| Sealing gasket               | Rubber or silicon rubber                                                                             |
| Insulator inflammability     | UL94V0                                                                                               |

HPC CCS1 VEHICLE CONNECTOR DIMENSIONS



HPC CCS1 VEHICLE CONNECTOR - PART NUMBERS

| P/N                        | Rated current |
|----------------------------|---------------|
| HVCO11002 (without handle) | 600A          |
| HVCO11012 (with handle)    | 600A          |

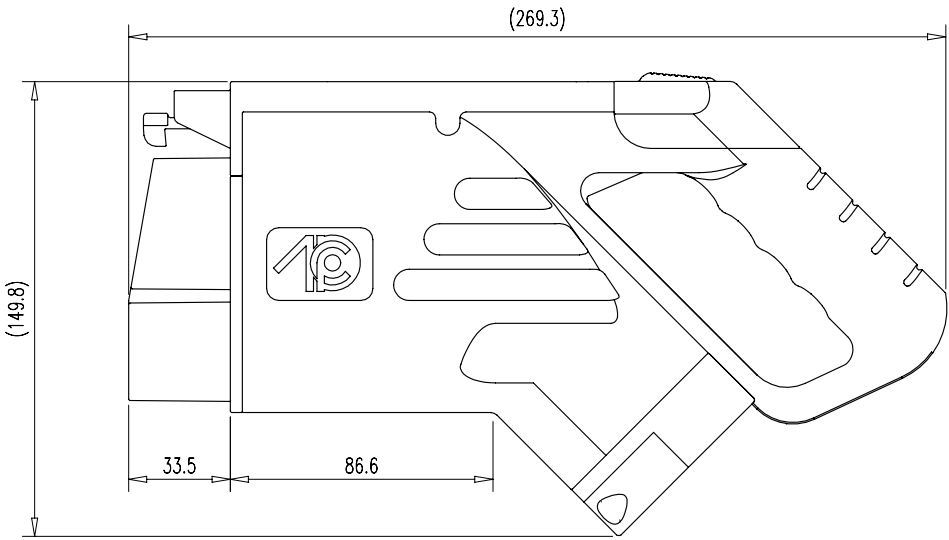
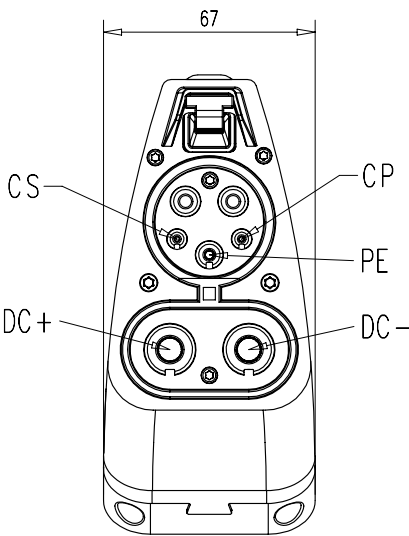


**KEY FEATURES:**

Compliant with:  
SAE J1772  
IEC 62196-3  
UL2251

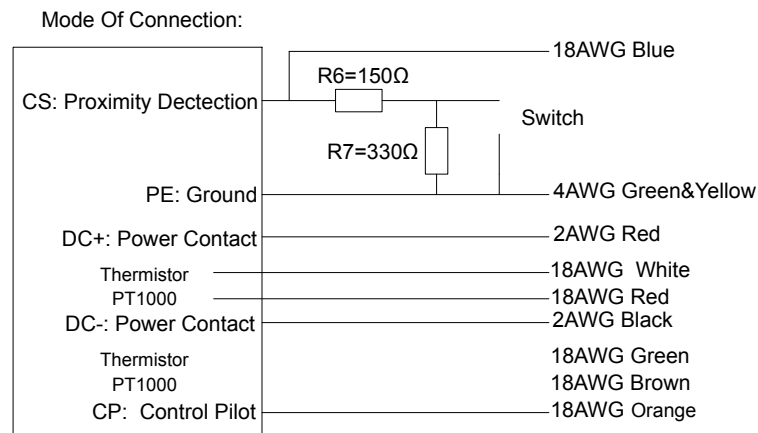
| MECHANICAL                   |                                                                                                      |
|------------------------------|------------------------------------------------------------------------------------------------------|
| Mating cycles                | > 10,000 cycles (unloaded)                                                                           |
| Insertion / withdrawal force | < 100N                                                                                               |
| ELECTRICAL                   |                                                                                                      |
| Rated current                | 400A Max                                                                                             |
| Rated voltage                | 1000V DC                                                                                             |
| Temperature sensor           | PT1000<br>The two power contacts DC+ and DC- are monitored by temperature-dependent resistor sensors |
| ENVIRONMENTAL                |                                                                                                      |
| Protection degree            | Type 3S                                                                                              |
| Ambient temperature          | -40°C to 55°C                                                                                        |
| MATERIAL                     |                                                                                                      |
| Shell                        | Thermoplastic                                                                                        |
| Contact                      | Copper alloy                                                                                         |
| Inserts                      | Thermoplastic                                                                                        |
| Sealing gasket               | Rubber or silicon rubber                                                                             |
| Insulator inflammability     | UL94V0                                                                                               |

SAE COMBO VEHICLE CONNECTOR DIMENSIONS

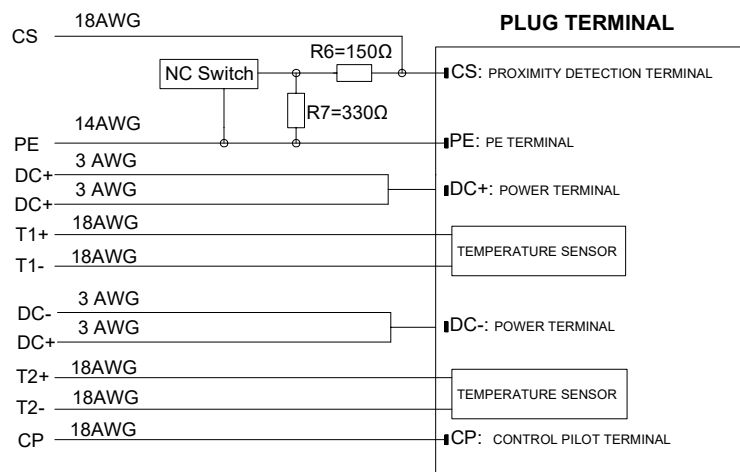


SAE COMBO VEHICLE CONNECTOR - CIRCUIT DIAGRAMS

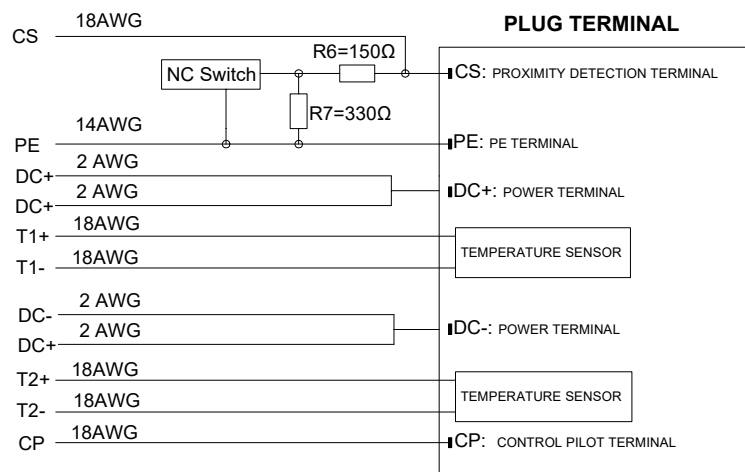
150A



200A

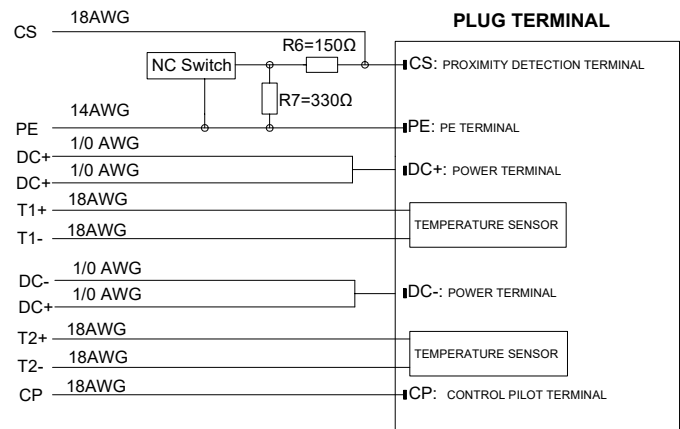


250A

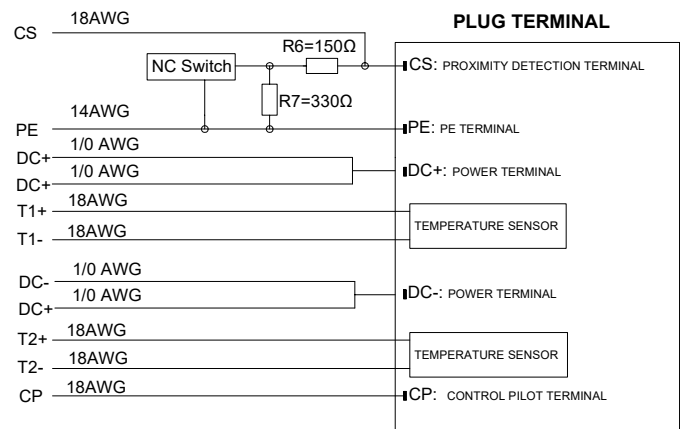


# SAE COMBO VEHICLE CONNECTOR - CIRCUIT DIAGRAMS

350A



400A



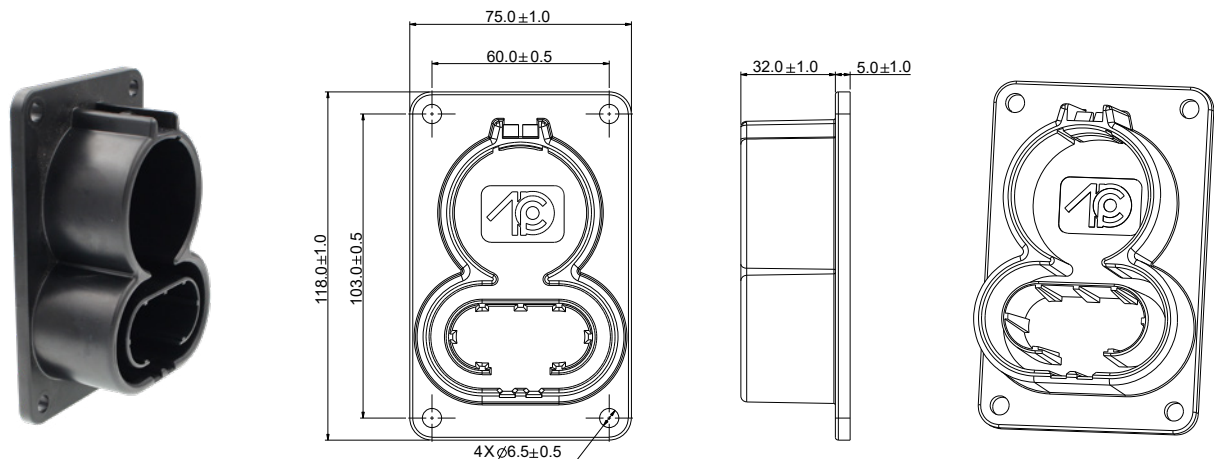
HOW TO ORDER | SAE COMBO

SAE Combo [Vehicle Connector](#)

| P/N             | Rated current (DC) | DC cable size | PE cable size |
|-----------------|--------------------|---------------|---------------|
| HVCOSAEM150AML  | 150A               | 2 AWG         | 4 AWG         |
| HVCOSAEM200AM2L | 200A               | 2 x 3 AWG     | 14 AWG        |
| HVCOSAEM250AML  | 250A               | 2 x 2 AWG     | 14 AWG        |
| HVCOSAEM350AML  | 350A               | 2 x 1/0 AWG   | 14 AWG        |
| HVCOSAEM400AML  | 400A               | 2 x 1/0 AWG   | 14 AWG        |

HOLDER FOR PLUG

P/N: **C-P03BP00156**  
(Connectors do not include, please order seperately)



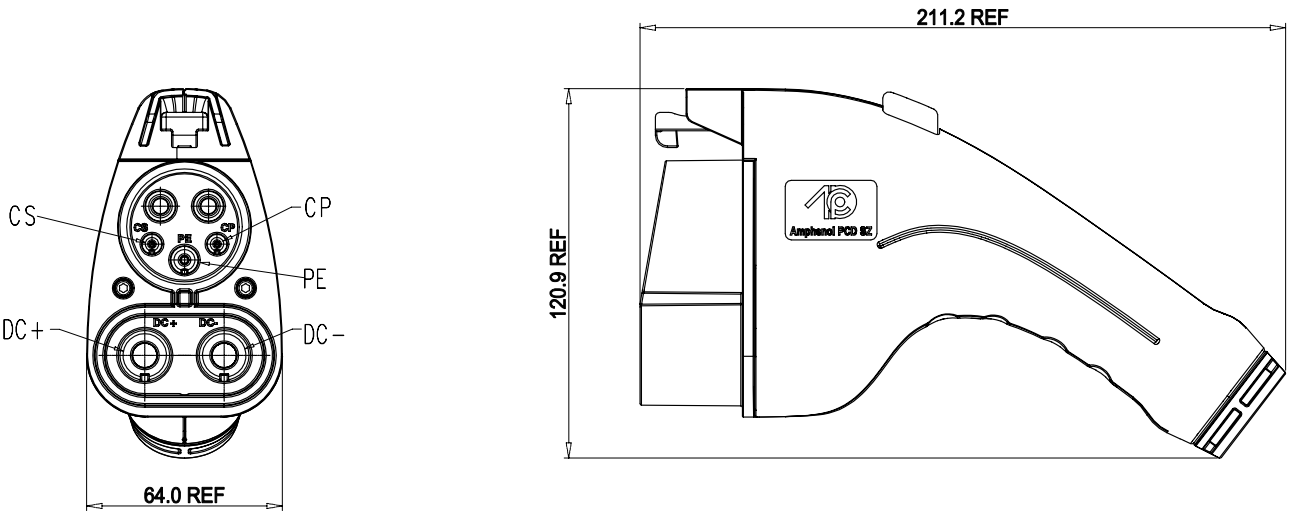


#### KEY FEATURES:

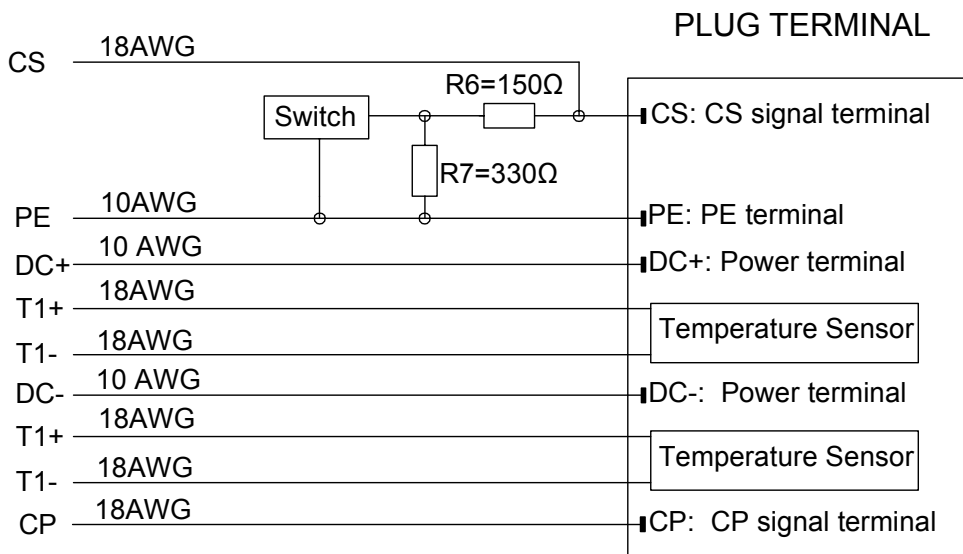
Compliant with:  
SAE J1772  
IEC 62196-3  
UL2251

| MECHANICAL                   |                                                                                                      |
|------------------------------|------------------------------------------------------------------------------------------------------|
| Mating cycles                | > 10,000 cycles (unloaded)                                                                           |
| Insertion / withdrawal force | < 100N                                                                                               |
| ELECTRICAL                   |                                                                                                      |
| Rated current                | 40A, 65A, 80A                                                                                        |
| Rated voltage                | 1000V DC                                                                                             |
| Temperature sensor           | PT1000<br>The two power contacts DC+ and DC- are monitored by temperature-dependent resistor sensors |
| ENVIRONMENTAL                |                                                                                                      |
| Protection degree            | Type 3S<br>IP67                                                                                      |
| Ambient temperature          | -30°C to 50°C                                                                                        |
| MATERIAL                     |                                                                                                      |
| Shell                        | Thermoplastic                                                                                        |
| Contact                      | Copper alloy                                                                                         |
| Inserts                      | Thermoplastic                                                                                        |
| Sealing gasket               | Rubber or silicon rubber                                                                             |
| Insulator inflammability     | UL94V0                                                                                               |

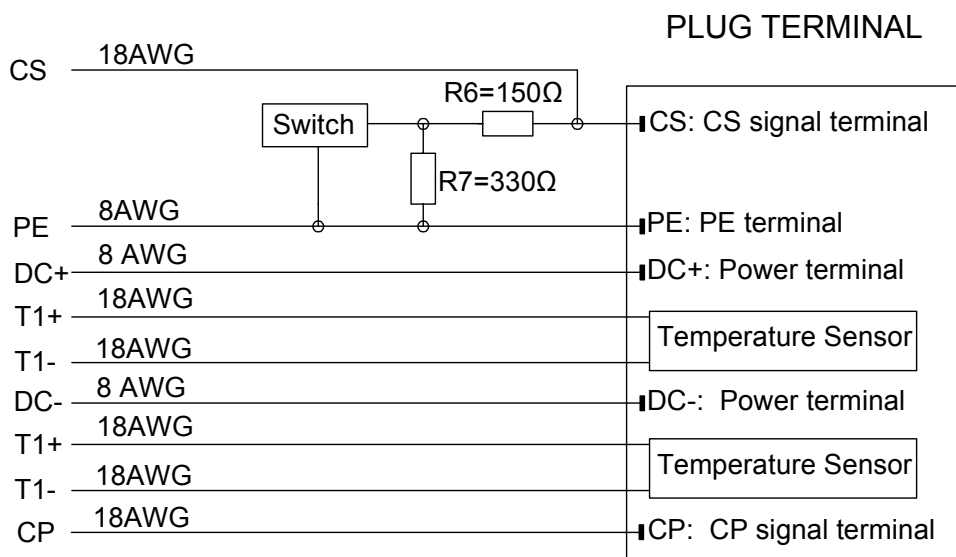
CC SAE COMBO WALL-MOUNTING VEHICLE CONNECTOR DIMENSIONS



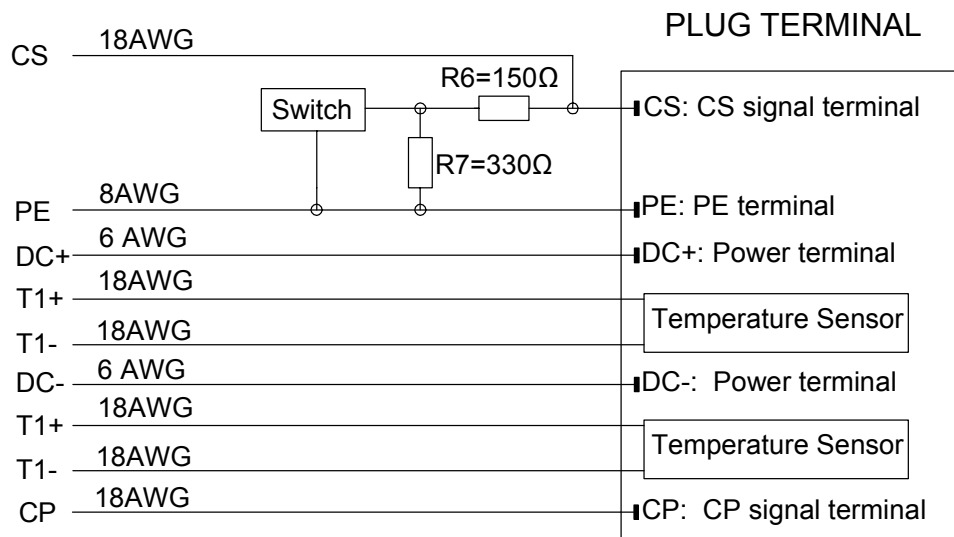
40A



65A



80A



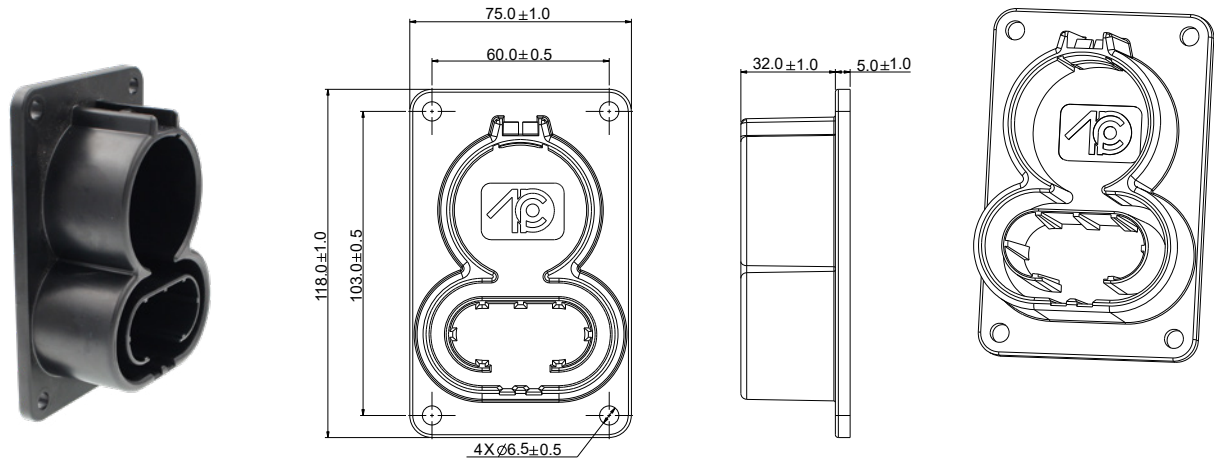
HOW TO ORDER | SAE COMBO WALL-MOUNTING

SAE Combo [Vehicle Connector](#)

|                                                                                                                    | HVCO | SAE | M | D | 40A | P | LXXXX | XXXX |
|--------------------------------------------------------------------------------------------------------------------|------|-----|---|---|-----|---|-------|------|
| <b>SAE:</b> SAE Combo                                                                                              |      |     |   |   |     |   |       |      |
| <b>Connector type:</b><br><b>M:</b> Vehicle Connector                                                              |      |     |   |   |     |   |       |      |
| <b>Connector version:</b><br><b>D:</b> Mini DC Combo Plug                                                          |      |     |   |   |     |   |       |      |
| <b>Rated current DC:</b><br><b>40A:</b> 40A<br><b>65A:</b> 65A<br><b>80A:</b> 80A                                  |      |     |   |   |     |   |       |      |
| <b>Temperature sensor:</b><br><b>N:</b> NTC (Unit in mm)<br><b>P:</b> PT1000 (Unit in mm)<br><b>N/A:</b> No sensor |      |     |   |   |     |   |       |      |
| <b>Cable length:</b><br><b>LXXXX:</b> Cable length (Unit in mm)                                                    |      |     |   |   |     |   |       |      |
| <b>Cable accessories:</b><br><b>XXXX:</b> Cable accessories or customer code                                       |      |     |   |   |     |   |       |      |

HOLDER FOR PLUG

P/N: **C-P03BP00156**  
(Connectors do not include, please order seperately)

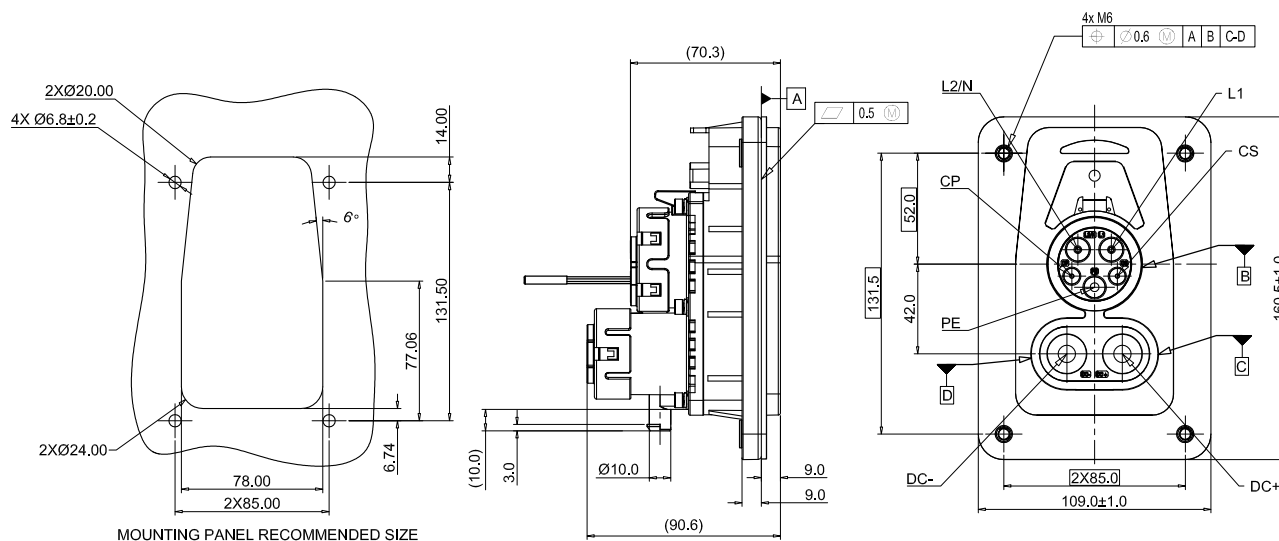


**KEY FEATURES:**

Compliant with:  
 IEC 62196-1  
 IEC 62196-2  
 IEC 62196-3  
 UL2251  
 SAE J1772

| MECHANICAL                   |                                                                                                      |
|------------------------------|------------------------------------------------------------------------------------------------------|
| Mating cycles                | > 10,000 cycles (unloaded)                                                                           |
| Insertion / withdrawal force | < 100N                                                                                               |
| ELECTRICAL                   |                                                                                                      |
| Rated current                | 300A Max                                                                                             |
| Rated voltage                | 1000V DC                                                                                             |
| Temperature sensor           | PT1000<br>The two power contacts DC+ and DC- are monitored by temperature-dependent resistor sensors |
| ENVIRONMENTAL                |                                                                                                      |
| Protection degree            | IP44( plugged in),<br>IP55 (road position),<br>IP67 (inner area of inlet)                            |
| Ambient temperature          | -30°C to 50°C                                                                                        |
| MATERIAL                     |                                                                                                      |
| Shell                        | Thermoplastic                                                                                        |
| Contact                      | Copper alloy                                                                                         |
| Inserts                      | Thermoplastic                                                                                        |
| Sealing gasket               | Rubber or silicon rubber                                                                             |
| Insulator inflammability     | UL94V0                                                                                               |

## CCS1 VEHICLE INLET VERSION A | AC+DC DIMENSIONS



| Rated voltage and current           | Functions                    |
|-------------------------------------|------------------------------|
| 240V   48A                          | L1                           |
| 240V   48A                          | L2/N                         |
| -                                   | PE (Protective Ground/Earth) |
| 1000V   300A, 200A, 150A, 125A, 65A | DC+                          |
| 1000V   300A, 200A, 150A, 125A, 65A | DC-                          |
| 30V   2A                            | CP (Control pilot)           |
| 30V   2A                            | PP (Proximity)               |

## CCS1 Vehicle inlet AC + DC

## Socket-inlet



| Part Number |              |             |
|-------------|--------------|-------------|
| AC          | DC           | Part Number |
| 240V / 48A  | 1000V / 200A | HVCOSF003   |
| 240V / 48A  | 1000V / 125A | HVCOSF005   |
| 240V / 48A  | 1000V / 65A  | HVCOSF007   |
| 240V / 48A  | 1000V / 300A | HVCOSF009   |
| 240V / 48A  | 1000V / 150A | HVCOSF013   |

Compliant with IEC 62196-1/2/3, UL2251 and SAE J1772

Configuration:

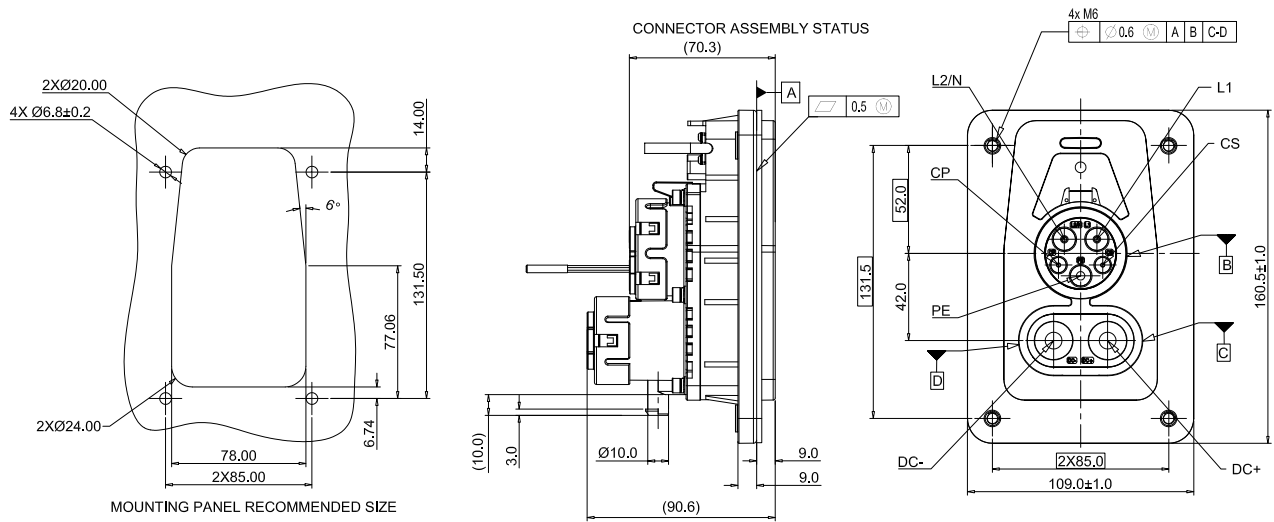
240V | 48A | 1-phase

1000V | 65A, 125A, 150A, 200A or 300A | 3-phase

Electric lock available

12 o'clock

# CCS1 VEHICLE INLET **VERSION A** | AC+DC **WITH LED** DIMENSIONS



| Rated voltage and current           | Functions                    |
|-------------------------------------|------------------------------|
| 240V   48A                          | L1                           |
| 240V   48A                          | L2 /N                        |
| -                                   | PE (Protective Ground/Earth) |
| 1000V   300A, 200A, 150A, 125A, 65A | DC+                          |
| 1000V   300A, 200A, 150A, 125A, 65A | DC-                          |
| 30V   2A                            | CP (Control pilot)           |
| 30V   2A                            | PP (Proximity)               |

## CCS1 Vehicle inlet AC + DC

### Socket-inlet



| Part Number |              |             |
|-------------|--------------|-------------|
| AC          | DC           | Part Number |
| 240V / 48A  | 1000V / 200A | HVCOSF003D  |
| 240V / 48A  | 1000V / 125A | HVCOSF005D  |
| 240V / 48A  | 1000V / 65A  | HVCOSF007D  |
| 240V / 48A  | 1000V / 300A | HVCOSF009D  |
| 240V / 48A  | 1000V / 150A | HVCOSF013D  |

Compliant with IEC 62196-1/2/3, UL2251 and SAE J1772

Configuration:

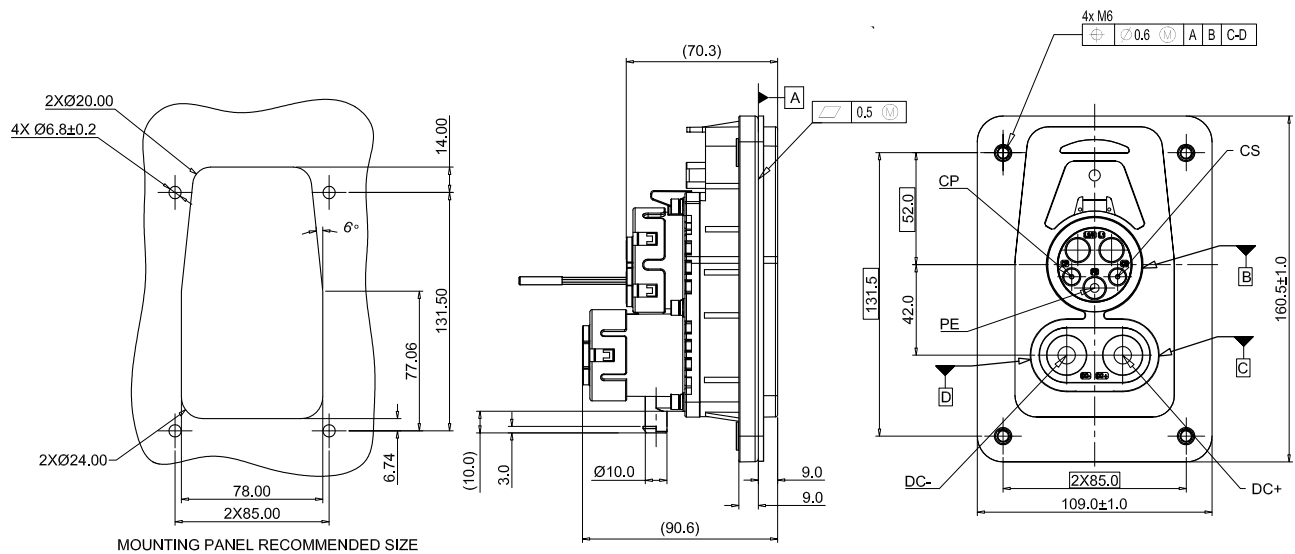
240V | 48A | 1-phase

1000V | 65A, 125A, 150A, 200A or 300A | 3-phase

Electric lock available

12 o'clock

CCS1 VEHICLE INLET **VERSION A** | DC DIMENSIONS



| Rated voltage and current           | Functions                    |
|-------------------------------------|------------------------------|
| -                                   | PE (Protective Ground/Earth) |
| 1000V   300A, 200A, 150A, 125A, 65A | DC+                          |
| 1000V   300A, 200A, 150A, 125A, 65A | DC-                          |
| 30V   2A                            | CP (Control pilot)           |
| 30V   2A                            | PP (Proximity)               |

CCS1 Vehicle inlet DC

Socket-inlet



| Part Number  |             |
|--------------|-------------|
| DC           | Part Number |
| 1000V / 200A | HVCOSF004   |
| 1000V / 125A | HVCOSF006   |
| 1000V / 65A  | HVCOSF008   |
| 1000V / 300A | HVCOSF010   |
| 1000V / 150A | HVCOSF014   |

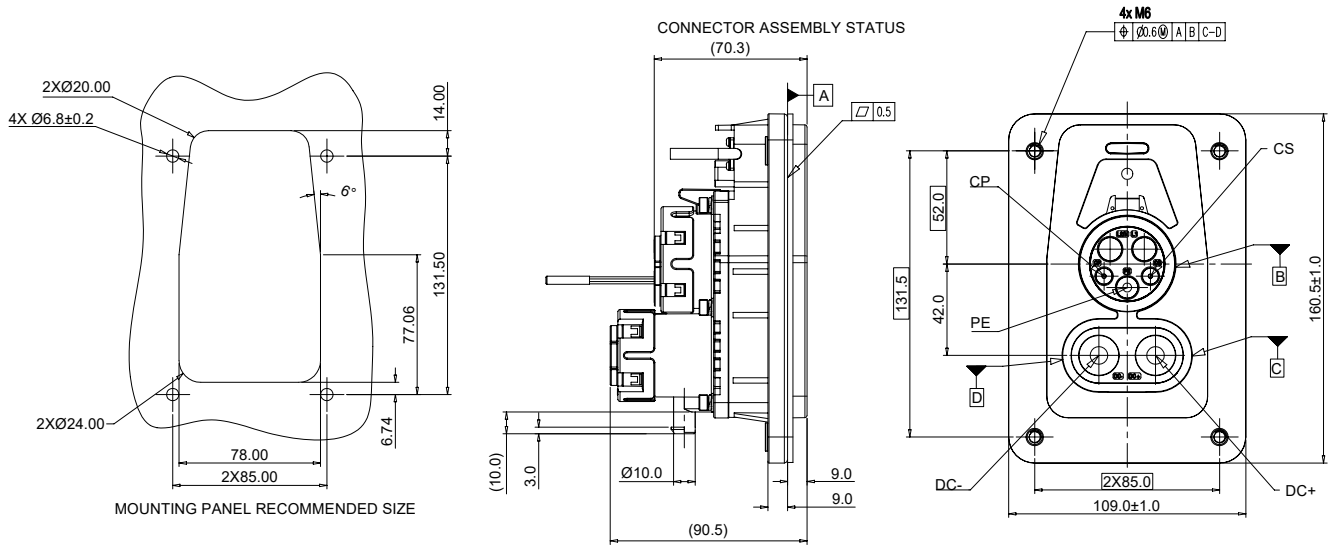
Compliant with IEC 62196-1/2/3, UL2251 and SAE J1772

Configuration:  
1000V | 65A, 125A, 150A, 200A or 300A | 3-phase

Electric lock available

12 o'clock

CCS1 VEHICLE INLET **VERSION A** | DC **WITH LED** DIMENSIONS



| Rated voltage and current           | Functions                    |
|-------------------------------------|------------------------------|
| -                                   | PE (Protective Ground/Earth) |
| 1000V   300A, 200A, 150A, 125A, 65A | DC+                          |
| 1000V   300A, 200A, 150A, 125A, 65A | DC-                          |
| 30V   2A                            | CP (Control pilot)           |
| 30V   2A                            | PP (Proximity)               |

CCS1 Vehicle inlet DC

Socket-inlet



| Part Number  |             |
|--------------|-------------|
| DC           | Part Number |
| 1000V / 200A | HVCOSF004D  |
| 1000V / 125A | HVCOSF006D  |
| 1000V / 65A  | HVCOSF008D  |
| 1000V / 300A | HVCOSF010D  |
| 1000V / 150A | HVCOSF014D  |

Compliant with IEC 62196-1/2/3, UL2251 and SAE J1772

Configuration:  
1000V | 65A, 125A, 150A, 200A or 300A | 3-phase

Electric lock available  
12 o'clock

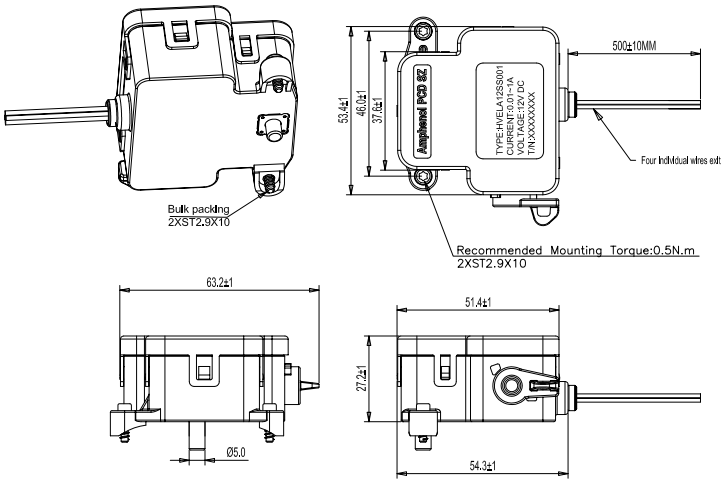
LOCKING ACTUATOR

Electric lock | AMPHENOL PCD SHENZHEN (12V, 24V)

4-wire solution is available for 12V and 24V



|                     |     |
|---------------------|-----|
| <b>HVELA12SS001</b> | 12V |
| <b>HVELA24SS001</b> | 24V |



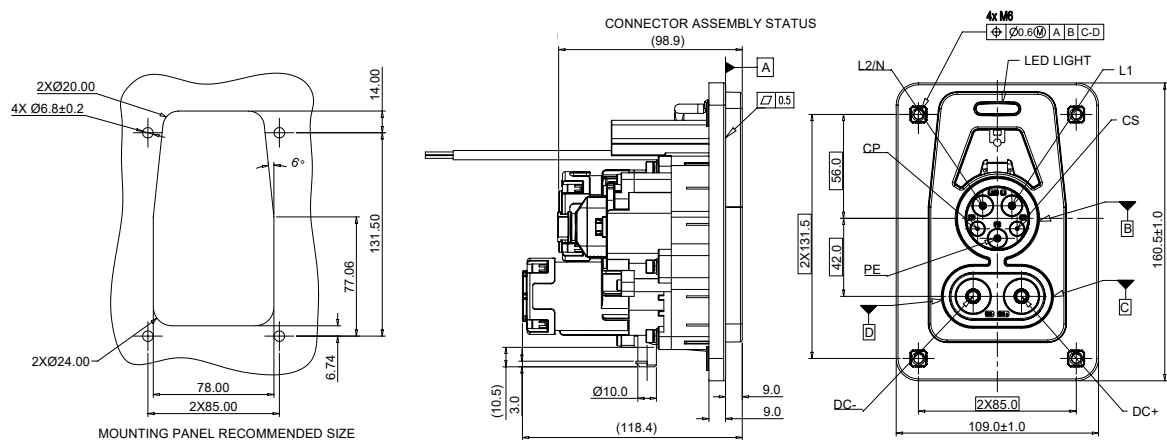
| TYPE      | RED | BLACK | WHITE                        | BLUE |
|-----------|-----|-------|------------------------------|------|
| UNLOCKING | +   | -     | SIGNAL(R <sub>U</sub> =1KΩ)  |      |
| LOCKING   | -   | +     | SIGNAL(R <sub>L</sub> =11KΩ) |      |

**KEY FEATURES:**

Compliant with:  
IEC 62196-1  
IEC 62196-2  
IEC 62196-3  
UL2251  
SAE J1772

| MECHANICAL                   |                                                                                                      |
|------------------------------|------------------------------------------------------------------------------------------------------|
| Mating cycles                | > 10,000 cycles (unloaded)                                                                           |
| Insertion / withdrawal force | < 100N                                                                                               |
| ELECTRICAL                   |                                                                                                      |
| Rated current                | 80A AC Max<br>300A to 500A DC (peak:800A)                                                            |
| Rated voltage                | 240V AC<br>1000V DC                                                                                  |
| Temperature sensor           | PT1000<br>The two power contacts DC+ and DC- are monitored by temperature-dependent resistor sensors |
| ENVIRONMENTAL                |                                                                                                      |
| Protection degree            | IP44( plugged in),<br>IP55 (road position),<br>IP67 (inner area of inlet)                            |
| Ambient temperature          | -30°C to 50°C                                                                                        |
| MATERIAL                     |                                                                                                      |
| Shell                        | Thermoplastic                                                                                        |
| Contact                      | Copper alloy                                                                                         |
| Inserts                      | Thermoplastic                                                                                        |
| Sealing gasket               | Rubber or silicon rubber                                                                             |
| Insulator inflammability     | UL94V0                                                                                               |

CCS1 VEHICLE INLET **VERSION B** | AC+DC DIMENSIONS



| Rated voltage and current | Functions                    |
|---------------------------|------------------------------|
| 240V   80A, 48A           | L1                           |
| 240V   80A, 48A           | L2 /N                        |
| -                         | PE (Protective Ground/Earth) |
| 1000V   500A, 400A, 300A  | DC+                          |
| 1000V   500A, 400A, 300A  | DC-                          |
| 30V   2A                  | CP (Control pilot)           |
| 30V   2A                  | PP (Proximity)               |

CCS1 Vehicle inlet AC + DC

Socket-inlet



| Part Number |              |             |
|-------------|--------------|-------------|
| AC          | DC           | Part Number |
| 240V / 80A  | 1000V / 500A | HVCOSF040D  |
| 240V / 80A  | 1000V / 400A | HVCOSF041D  |
| 240V / 80A  | 1000V / 300A | HVCOSF042D  |
| 240V / 48A  | 1000V / 500A | HVCOSF046D  |
| 240V / 48A  | 1000V / 400A | HVCOSF047D  |
| 240V / 48A  | 1000V / 300A | HVCOSF048D  |

Compliant with IEC 62196-1/2/3, UL2251 and SAE J1772

Configuration:

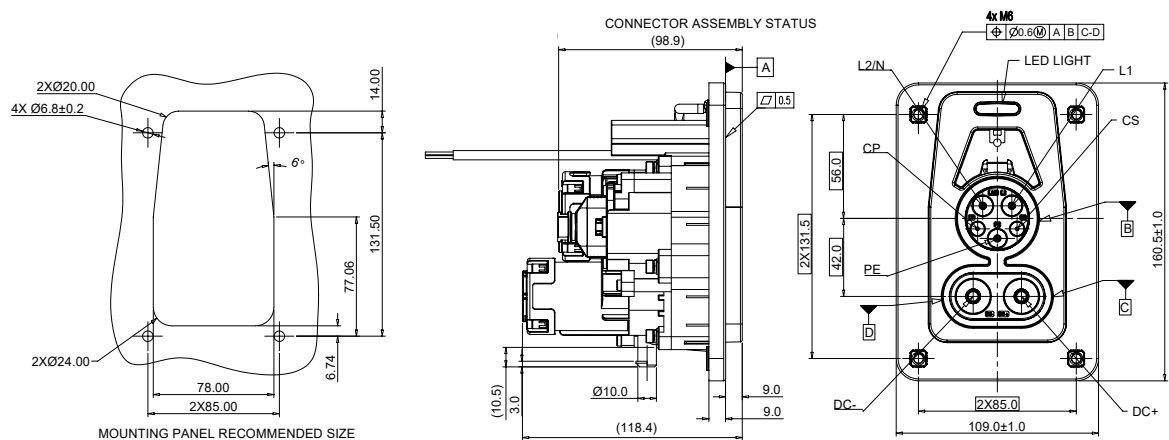
240V | 48A or 80A | 1-phase

1000V | 300A, 400A or 500A

Electric lock available

12 o'clock

CCS1 VEHICLE INLET VERSION B | DC WITH LED DIMENSIONS



| Rated voltage and current | Functions                    |
|---------------------------|------------------------------|
| -                         | PE (Protective Ground/Earth) |
| 1000V   500A, 400A, 300A  | DC+                          |
| 1000V   500A, 400A, 300A  | DC-                          |
| 30V   2A                  | CP (Control pilot)           |
| 30V   2A                  | PP (Proximity)               |

CCS1 Vehicle inlet DC

Socket-inlet



| Part Number  |             |
|--------------|-------------|
| DC           | Part Number |
| 1000V / 500A | HVCOSF043D  |
| 1000V / 400A | HVCOSF044D  |
| 1000V / 300A | HVCOSF045D  |

Compliant with IEC 62196-1/2/3, UL2251 and SAE J1772

Configuration:  
1000V | 300A, 400A or 500A

Electric lock available

12 o'clock

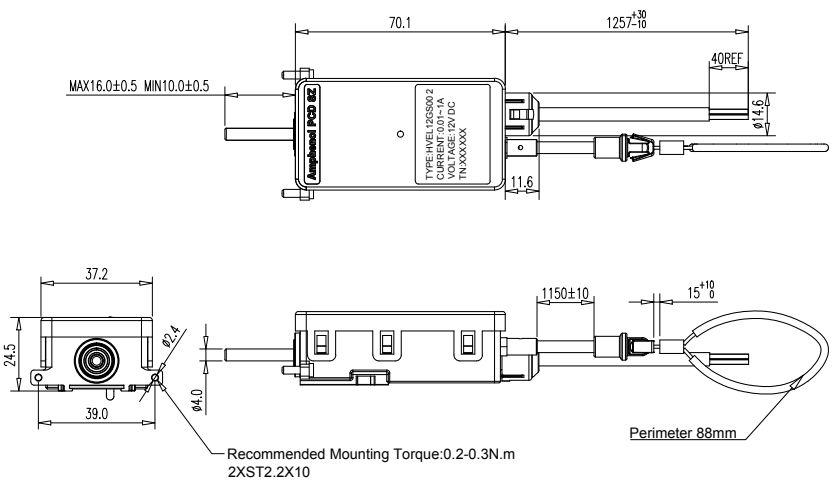
LOCKING ACTUATORS

Electric lock | AMPHENOL PCD SHENZHEN (12V)

4-wire solution is available for 12V



P/N (12V): **HVEL12GS002**



| TYPE      | RED | BLACK | WHITE                         | BLUE |
|-----------|-----|-------|-------------------------------|------|
| UNLOCKING | +   | -     | SIGNAL( $R_U=+\infty\Omega$ ) |      |
| LOCKING   | -   | +     | SIGNAL( $R_L=0\Omega$ )       |      |