# INTERNAL CABLING

| REV. | DRAWN BY - DATE | MEC. CHECK - DATE | ELEC. CHECK - DATE | SYS. CHECK - DATE | P.A. CHECK - DATE | C. of C. CHECK - DATE | CHANGE AUTHORITY |
|---|---|---|---|---|---|---|---|
| / | B.SCOTTI 04/05/09 | | A. SPIN' ACQ JM | 04.09.09 C. VETTORE | 04.09.09 | C. CINQUEPALMI C. Cinquepalmi 04/09/09 | |

DRAWING TITLE

**AMS TCS**

Ram Heaters Thermostats cabling

CARLO GAVAZZI SPACE S.p.A.

| FILE NAME | NEXT ASSY | DRAWING NUMBER | REV. |
|---|---|---|---|
| **41-AMS02TCS-200.00.07.xls** | **41-AMS02TCS-200.00.00** | **41-AMS02TCS-200.00.07** | / |

*THIS IS AN ELECTRONIC FORM - NO MANUAL ALTERATION*

*ALL RIGHTS RESERVED - COPYRIGHT ACC.TO DIN 34*

## CABLING INFORMATION

| IDENTIFICATION PARTS | | | REQUIREMENTS / TEST | |
|---|---|---|---|---|
| **Item** | **DESCRIPTION** | **PART NUMBER** | **REQUIREMENTS** | **ACCORDING TO** |
| *TB1/6A* | Terminal junction module 2x10 contact | M81714/7-DB1 | | |
| *TB1/6B* | Terminal junction module 2x10 contact | M81714/7-DB1 | | |
| *TB7/11A* | Terminal junction module 2x10 contact | M81714/7-DB1 | **1) MANUFACTURING** | |
| *TB7/11B* | Terminal junction module 2x10 contact | M81714/7-DB1 | 1.1) SOLDER AND JOINT | ECSS-Q-70-08A |
| *TB1A* | Terminal junction module 2x5 contact | M81714/2-DB1 | 1.2)GENERAL ASSEMBLY | 41-AMS02TCS-200.00.00 REV./ |
| *TB1B* | Terminal junction module 2x5 contact | M81714/2-DB1 | 1.3)HARNESS ROUTING | |
| *TB2A* | Terminal junction module 2x5 contact | M81714/2-DB1 | 1.4) HEATER GLUING | 21-AMS-000.99.00 REV./ |
| *TB2B* | Terminal junction module 2x5 contact | M81714/2-DB1 | **2) CRIMPING TEST** | |
| *TB3A* | Terminal junction module 2x5 contact | M81714/2-DB1 | | |
| *TB3B* | Terminal junction module 2x5 contact | M81714/2-DB1 | | |
| *TB4A* | Terminal junction module 2x5 contact | M81714/2-DB1 | **3) TEST RETENTION** | N.A. |
| *TB4B* | Terminal junction module 2x5 contact | M81714/2-DB1 | | |
| *TB5A* | Terminal junction module 2x5 contact | M81714/2-DB1 | | |
| *TB5B* | Terminal junction module 2x5 contact | M81714/2-DB1 | | |
| *TB6A* | Terminal junction module 2x5 contact | M81714/2-DB1 | **4) ELECTRICAL TEST** | N.A. |
| *TB6B* | Terminal junction module 2x5 contact | M81714/2-DB1 | | |
| *J122* | Circolar connector | MS27497E10F98P | | |
| | Backshell | M85049/49-2-10N | | |
| *J123* | Circolar connector | MS27497E10F98PA | | |
| | Backshell | M85049/49-2-10N | | |
| *J222* | Circolar connector | MS27497E10F98P | | |
| | Backshell | M85049/49-2-10N | | |
| *J223* | Circolar connector | MS27497E10F98PA | | |
| | Backshell | M85049/49-2-10N | | |

# INTERNAL CABLING

| REV. | DRAWN BY - DATE | MEC. CHECK - DATE | ELEC. CHECK - DATE | SYS. CHECK - DATE | P.A. CHECK - DATE | C. of C. CHECK - DATE | CHANGE AUTHORITY |
|---|---|---|---|---|---|---|---|
| / | B.SCOTTI 04/05/09 | | | | | | |

DRAWING TITLE

**AMS TCS**

Ram Heaters Thermostats cabling

CARLO GAVAZZI SPACE S.p.A.

| FILE NAME | NEXT ASSY | DRAWING NUMBER | REV. |
|---|---|---|---|
| 41-AMS02TCS-200.00.07.xls | 41-AMS02TCS-200.00.00 | 41-AMS02TCS-200.00.07 | / |

*THIS IS AN ELECTRONIC FORM - NO MANUAL ALTERATION*

*ALL RIGHTS RESERVED - COPYRIGHT ACC.TO DIN 34*

## CABLING INFORMATION

| IDENTIFICATION PARTS | | | REQUIREMENTS / TEST | |
|---|---|---|---|---|
| HR1/1 | Heater | 1EFISG440001 | | |
| HR1/2 | Heater | 1EFISG440001 | | |
| HR1/3 | Heater | MOUNT ON JPD SIDE WALL | | |
| HR1/4 | Heater | MOUNT ON JPD SIDE WALL | | |
| HR2/1 | Heater | MOUNT ON JT SIDE WALL | | |
| HR2/2 | Heater | MOUNT ON JT SIDE WALL | | |
| HR3/1 | Heater | MOUNT ON J SIDE WALL | | |
| HR3/2 | Heater | MOUNT ON JSIDE WALL | | |
| HR4/1 | Heater | 1EFISG435001 | | |
| HR4/2 | Heater | 1EFISG435001 | | |
| HR5/1 | Heater | 1EFISG435001 | | |
| HR5/2 | Heater | 1EFISG435001 | | |
| HR5/3 | Heater | 1EFISG435001 | | |
| HR6/1 | Heater | 1EFISG435001 | | |
| HR6/2 | Heater | 1EFISG435001 | | |
| HR6/3 | Heater | 1EFISG435001 | | |
| HR7/1 | Heater | 1EFISG435001 | | |
| HR7/2 | Heater | 1EFISG435001 | | |
| HR8/1 | Heater | 1EFISG435001 | | |
| HR8/2 | Heater | 1EFISG435001 | | |
| HR9/1 | Heater | 1EFISG435001 | | |
| HR9/2 | Heater | 1EFISG435001 | | |
| HR10/1 | Heater | 1EFISG435001 | | |
| HR10/2 | Heater | 1EFISG435001 | | |
| HR11/1 | Heater | 1EFISG435001 | | |

# INTERNAL CABLING

| REV. | DRAWN BY - DATE | MEC. CHECK - DATE | ELEC. CHECK - DATE | SYS. CHECK - DATE | P.A. CHECK - DATE | C. of C. CHECK - DATE | CHANGE AUTHORITY |
|---|---|---|---|---|---|---|---|
| / | B.SCOTTI 04/05/09 | | | | | | |

DRAWING TITLE

**AMS TCS**

Ram Heaters Thermostats cabling

CARLO GAVAZZI SPACE S.p.A.

| FILE NAME | NEXT ASSY | DRAWING NUMBER | REV. |
|---|---|---|---|
| 41-AMS02TCS-200.00.07.xls | 41-AMS02TCS-200.00.00 | 41-AMS02TCS-200.00.07 | / |

*THIS IS AN ELECTRONIC FORM - NO MANUAL ALTERATION*

*ALL RIGHTS RESERVED - COPYRIGHT ACC.TO DIN 34*

## CABLING INFORMATION

| IDENTIFICATION PARTS | | | REQUIREMENTS / TEST | |
|---|---|---|---|---|
| TH1/1A | Thermostat | G311P641/03706S018A032/3/3/8 | | |
| TH1/2A | Thermostat | G311P641/03706S018A032/3/3/8 | | |
| TH1/1B | Thermostat | G311P641/03706S018A032/3/3/8 | | |
| TH1/2B | Thermostat | G311P641/03706S018A032/3/3/8 | | |
| TH2/1A | Thermostat | G311P641/03706S018A032/3/3/8 | | |
| TH2/2A | Thermostat | G311P641/03706S018A032/3/3/8 | | |
| TH2/1B | Thermostat | G311P641/03706S018A032/3/3/8 | | |
| TH2/2B | Thermostat | G311P641/03706S018A032/3/3/8 | | |
| TH3/1A | Thermostat | G311P641/03706S018A032/3/3/8 | | |
| TH3/2A | Thermostat | G311P641/03706S018A032/3/3/8 | | |
| TH3/1B | Thermostat | G311P641/03706S018A032/3/3/8 | | |
| TH3/2B | Thermostat | G311P641/03706S018A032/3/3/8 | | |
| TH4/1A | Thermostat | G311P641/03706S018A032/3/3/8 | | |
| TH4/2A | Thermostat | G311P641/03706S018A032/3/3/8 | | |
| TH4/1B | Thermostat | G311P641/03706S018A032/3/3/8 | | |
| TH4/2B | Thermostat | G311P641/03706S018A032/3/3/8 | | |
| TH5/1A | Thermostat | G311P641/03706S018A032/3/3/8 | | |
| TH5/2A | Thermostat | G311P641/03706S018A032/3/3/8 | | |
| TH5/1B | Thermostat | G311P641/03706S018A032/3/3/8 | | |
| TH5/2B | Thermostat | G311P641/03706S018A032/3/3/8 | | |
| TH6/1A | Thermostat | G311P641/03706S018A032/3/3/8 | | |
| TH6/2A | Thermostat | G311P641/03706S018A032/3/3/8 | | |
| TH6/1B | Thermostat | G311P641/03706S018A032/3/3/8 | | |
| TH6/2B | Thermostat | G311P641/03706S018A032/3/3/8 | | |
| TH7/1A | Thermostat | G311P641/03706S018A032/3/3/8 | | |

# INTERNAL CABLING

| REV. | DRAWN BY - DATE | MEC. CHECK - DATE | ELEC. CHECK - DATE | SYS. CHECK - DATE | P.A. CHECK - DATE | C. of C. CHECK - DATE | CHANGE AUTHORITY |
|---|---|---|---|---|---|---|---|
| / | B.SCOTTI 04/05/09 | | | | | | |

DRAWING TITLE

**AMS TCS**

Ram Heaters Thermostats cabling

CARLO GAVAZZI SPACE S.p.A.

| FILE NAME | NEXT ASSY | DRAWING NUMBER | REV. |
|---|---|---|---|
| 41-AMS02TCS-200.00.07.xls | 41-AMS02TCS-200.00.00 | 41-AMS02TCS-200.00.07 | / |

*THIS IS AN ELECTRONIC FORM - NO MANUAL ALTERATION*

*ALL RIGHTS RESERVED - COPYRIGHT ACC.TO DIN 34*

## CABLING INFORMATION

| IDENTIFICATION PARTS | | | REQUIREMENTS / TEST | |
|---|---|---|---|---|
| TH7/2A | Thermostat | G311P641/03706S018A032/3/3/8 | | |
| TH7/1B | Thermostat | G311P641/03706S018A032/3/3/8 | | |
| TH7/2B | Thermostat | G311P641/03706S018A032/3/3/8 | | |
| TH8/1A | Thermostat | G311P641/03706S018A032/3/3/8 | | |
| TH8/2A | Thermostat | G311P641/03706S018A032/3/3/8 | | |
| TH8/1B | Thermostat | G311P641/03706S018A032/3/3/8 | | |
| TH8/2B | Thermostat | G311P641/03706S018A032/3/3/8 | | |
| TH9/1A | Thermostat | G311P641/03706S018A032/3/3/8 | | |
| TH9/2A | Thermostat | G311P641/03706S018A032/3/3/8 | | |
| TH9/1B | Thermostat | G311P641/03706S018A032/3/3/8 | | |
| TH9/2B | Thermostat | G311P641/03706S018A032/3/3/8 | | |
| TH10/1A | Thermostat | G311P641/03706S018A032/3/3/8 | | |
| TH10/2A | Thermostat | G311P641/03706S018A032/3/3/8 | | |
| TH10/1B | Thermostat | G311P641/03706S018A032/3/3/8 | | |
| TH10/2B | Thermostat | G311P641/03706S018A032/3/3/8 | | |
| TH11/1A | Thermostat | G311P641/03706S018A032/3/3/8 | | |
| TH11/2A | Thermostat | G311P641/03706S018A032/3/3/8 | | |
| TH11/1B | Thermostat | G311P641/03706S018A032/3/3/8 | | |
| TH11/2B | Thermostat | G311P641/03706S018A032/3/3/8 | | |

DRAWING TITLE

# AMS TCS

Ram Heaters Thermostats cabling

CARLO GAVAZZI SPACE S.p.A.

| FILE NAME | NEXT ASSY | DRAWING NUMBER | REV. |
|---|---|---|---|
| 41-AMS02TCS-200.00.07.xls | 41-AMS02TCS-200.00.00 | 41-AMS02TCS-200.00.07 | / |

*THIS IS AN ELECTRONIC FORM - NO MANUAL ALTERATION*

*ALL RIGHTS RESERVED - COPYRIGHT ACC.TO DIN 34*

## CONNECTION IDENTIFICATION DATA

| FROM TB1/6A | | | TO | | | | | | | | | WIRE / CABLE INFORMATION | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SIGNAL NAME | TB1/6A | REMARKS | J122 | TH3/1 A | TH3/2 A | TH5/1 A | TH5/2 A | | | | REMARKS | POS. n° | CABLE TYPE | TWISTED PAIR | REMARKS |
| *A H_out2* | A / 1 | 2) - 8) | B | | | | | | | | 1) - 8) | 6 | TP AWG 20 | TP1 | |
| *A H_out2* | B / 1 | 2) - 8) | C | | | | | | | | 1) - 8) | 6 | TP AWG 20 | TP2 | |
| *A H_out2* | C / 1 | 2) - 8) | D | | | | | | | | 1) - 8) | 6 | TP AWG 20 | TP3 | |
| *A H_out2* | D / 1 | 2) - 8) | | 2 | | | | | | | 3) - 8) | 6 | TP AWG 20 | TP63 | |
| *A H_out2* | E / 1 | 2) - 8) | | | | 2 | | | | | 3) - 8) | 6 | TP AWG 20 | TP53 | |
| *A H_out2 rtn* | F / 1 | 2) - 8) | A | | | | | | | | 1) - 8) | 6 | TP AWG 20 | TP1 | |
| *A H_out2 rtn* | G / 1 | 2) - 8) | E | | | | | | | | 1) - 8) | 6 | TP AWG 20 | TP3 | |
| *A H_out2 rtn* | H / 1 | 2) - 8) | F | | | | | | | | 1) - 8) | 6 | TP AWG 20 | TP2 | |
| *A H_out2 rtn* | J / 1 | 2) - 8) | | | 2 | | | | | | 3) - 8) | 6 | TP AWG 20 | TP63 | |
| *A H_out2 rtn* | K / 1 | 2) - 8) | | | | | 2 | | | | 3) - 8) | 6 | TP AWG 20 | TP53 | |
| | A / 2 | | | | | | | | | | | | | | |
| | B / 2 | | | | | | | | | | | | | | |
| | C / 2 | | | | | | | | | | | | | | |
| | D / 2 | | | | | | | | | | | | | | |
| | E / 2 | | | | | | | | | | | | | | |
| | F / 2 | | | | | | | | | | | | | | |
| | G / 2 | | | | | | | | | | | | | | |
| | H / 2 | | | | | | | | | | | | | | |
| | J / 2 | | | | | | | | | | | | | | |
| | K / 2 | | | | | | | | | | | | | | |

DRAWING TITLE

# AMS TCS

Ram Heaters Thermostats cabling

CARLO GAVAZZI SPACE S.p.A.

| FILE NAME | NEXT ASSY | DRAWING NUMBER | REV. |
|---|---|---|---|
| 41-AMS02TCS-200.00.07.xls | 41-AMS02TCS-200.00.00 | 41-AMS02TCS-200.00.07 | / |

*THIS IS AN ELECTRONIC FORM - NO MANUAL ALTERATION*

*ALL RIGHTS RESERVED - COPYRIGHT ACC.TO DIN 34*

## CONNECTION IDENTIFICATION DATA

| FROM TB1/6A | | | TO | | | | | | | | | WIRE / CABLE INFORMATION | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | TB1/6A | REMARKS | TH4/1 A | TH4/2 A | TH6/1 A | TH6/2 A | TH2/1 A | TH2/2 A | TH1/1 A | TH1/2 A | REMARKS | POS. n° | CABLE TYPE | TWISTED PAIR | REMARKS |
| | A / 1 | | | | | | | | | | | | | | |
| | B / 1 | | | | | | | | | | | | | | |
| | C / 1 | | | | | | | | | | | | | | |
| | D / 1 | | | | | | | | | | | | | | |
| | E / 1 | | | | | | | | | | | | | | |
| | F / 1 | | | | | | | | | | | | | | |
| | G / 1 | | | | | | | | | | | | | | |
| | H / 1 | | | | | | | | | | | | | | |
| | J / 1 | | | | | | | | | | | | | | |
| | K / 1 | | | | | | | | | | | | | | |
| *A H_out2* | A / 2 | 2) - 8) | 2 | | | | | | | | 3) - 8) | 6 | TP AWG 20 | TP43 | |
| *A H_out2* | B / 2 | 2) - 8) | | | 2 | | | | | | 3) - 8) | 6 | TP AWG 20 | TP35 | |
| *A H_out2* | C / 2 | 2) - 8) | | | | | 2 | | | | 3) - 8) | 6 | TP AWG 20 | TP27 | |
| *A H_out2* | D / 2 | 2) - 8) | | | | | | | 2 | | 3) - 8) | 6 | TP AWG 20 | TP19 | |
| *N.C.* | E / 2 | | | | | | | | | | | | | | |
| *A H_out2 rtn* | F / 2 | 2) - 8) | | 2 | | | | | | | 3) - 8) | 6 | TP AWG 20 | TP43 | |
| *A H_out2 rtn* | G / 2 | 2) - 8) | | | | 2 | | | | | 3) - 8) | 6 | TP AWG 20 | TP35 | |
| *A H_out2 rtn* | H / 2 | 2) - 8) | | | | | | 2 | | | 3) - 8) | 6 | TP AWG 20 | TP27 | |
| *A H_out2 rtn* | J / 2 | 2) - 8) | | | | | | | | 2 | 3) - 8) | 6 | TP AWG 20 | TP19 | |
| *N.C.* | K / 2 | | | | | | | | | | | | | | |

DRAWING TITLE

# AMS TCS

Ram Heaters Thermostats cabling

CARLO GAVAZZI SPACE S.p.A.

| FILE NAME | NEXT ASSY | PARTS LIST NUMBER | REV. |
|---|---|---|---|
| 41-AMS02TCS-200.00.07.xls | 41-AMS02TCS-200.00.00 | 41-AMS02TCS-200.00.07 | / |

*THIS IS AN ELECTRONIC FORM - NO MANUAL ALTERATION*

*ALL RIGHTS RESERVED - COPYRIGHT ACC.TO DIN 34*

## CONNECTION IDENTIFICATION DATA

| FROM TB1_6B | | | TO | | | | | | | | | WIRE / CABLE INFORMATION | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SIGNAL NAME | TB1_6B | REMARKS | J222 | TH3/1 B | TH3/2 B | TH5/1 B | TH5/2 B | | | | REMARKS | POS. n° | CABLE TYPE | TWISTED PAIR | REMARKS |
| *B H_out2* | A / 1 | 2) - 8) | B | | | | | | | | 1) - 8) | 6 | TP AWG 20 | TP4 | |
| *B H_out2* | B / 1 | 2) - 8) | C | | | | | | | | 1) - 8) | 6 | TP AWG 20 | TP5 | |
| *B H_out2* | C / 1 | 2) - 8) | D | | | | | | | | 1) - 8) | 6 | TP AWG 20 | TP6 | |
| *B H_out2* | D / 1 | 2) - 8) | | 2 | | | | | | | 3) - 8) | 6 | TP AWG 20 | TP65 | |
| *B H_out2* | E / 1 | 2) - 8) | | | | 2 | | | | | 3) - 8) | 6 | TP AWG 20 | TP55 | |
| *B H_out2 rtn* | F / 1 | 2) - 8) | A | | | | | | | | 1) - 8) | 6 | TP AWG 20 | TP4 | |
| *B H_out2 rtn* | G / 1 | 2) - 8) | E | | | | | | | | 1) - 8) | 6 | TP AWG 20 | TP5 | |
| *B H_out2 rtn* | H / 1 | 2) - 8) | F | | | | | | | | 1) - 8) | 6 | TP AWG 20 | TP6 | |
| *B H_out2 rtn* | J / 1 | 2) - 8) | | | 2 | | | | | | 3) - 8) | 6 | TP AWG 20 | TP65 | |
| *B H_out2 rtn* | K / 1 | 2) - 8) | | | | | 2 | | | | 3) - 8) | 6 | TP AWG 20 | TP55 | |
| | A / 2 | | | | | | | | | | | | | | |
| | B / 2 | | | | | | | | | | | | | | |
| | C / 2 | | | | | | | | | | | | | | |
| | D / 2 | | | | | | | | | | | | | | |
| | E / 2 | | | | | | | | | | | | | | |
| | F / 2 | | | | | | | | | | | | | | |
| | G / 2 | | | | | | | | | | | | | | |
| | H / 2 | | | | | | | | | | | | | | |
| | J / 2 | | | | | | | | | | | | | | |
| | K / 2 | | | | | | | | | | | | | | |

DRAWING TITLE

# AMS TCS

Ram Heaters Thermostats cabling

CARLO GAVAZZI SPACE S.p.A.

| FILE NAME | NEXT ASSY | PARTS LIST NUMBER | REV. |
|---|---|---|---|
| 41-AMS02TCS-200.00.07.xls | 41-AMS02TCS-200.00.00 | 41-AMS02TCS-200.00.07 | / |

*THIS IS AN ELECTRONIC FORM - NO MANUAL ALTERATION*

*ALL RIGHTS RESERVED - COPYRIGHT ACC.TO DIN 34*

## CONNECTION IDENTIFICATION DATA

| FROM TB1_6B | | | TO | | | | | | | | | WIRE / CABLE INFORMATION | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SIGNAL NAME | TB1_6B | REMARKS | TH4/1 B | TH4/2 B | TH6/1 B | TH6/2 B | TH2/1 B | TH2/2 B | TH1/1 B | TH1/2 B | REMARKS | POS. n° | CABLE TYPE | TWISTED PAIR | REMARKS |
| | A / 1 | | | | | | | | | | | | | | |
| | B / 1 | | | | | | | | | | | | | | |
| | C / 1 | | | | | | | | | | | | | | |
| | D / 1 | | | | | | | | | | | | | | |
| | E / 1 | | | | | | | | | | | | | | |
| | F / 1 | | | | | | | | | | | | | | |
| | G / 1 | | | | | | | | | | | | | | |
| | H / 1 | | | | | | | | | | | | | | |
| | J / 1 | | | | | | | | | | | | | | |
| | K / 1 | | | | | | | | | | | | | | |
| *B H_out2* | A / 2 | 2) - 8) | 2 | | | | | | | | 3) - 8) | 6 | TP AWG 20 | TP45 | |
| *B H_out2* | B / 2 | 2) - 8) | | | 2 | | | | | | 3) - 8) | 6 | TP AWG 20 | TP37 | |
| *B H_out2* | C / 2 | 2) - 8) | | | | | 2 | | | | 3) - 8) | 6 | TP AWG 20 | TP29 | |
| *B H_out2* | D / 2 | 2) - 8) | | | | | | | 2 | | 3) - 8) | 6 | TP AWG 20 | TP21 | |
| *N.C.* | E / 2 | | | | | | | | | | | | | | |
| *B H_out2 rtn* | F / 2 | 2) - 8) | | 2 | | | | | | | 3) - 8) | 6 | TP AWG 20 | TP45 | |
| *B H_out2 rtn* | G / 2 | 2) - 8) | | | | 2 | | | | | 3) - 8) | 6 | TP AWG 20 | TP37 | |
| *B H_out2 rtn* | H / 2 | 2) - 8) | | | | | | 2 | | | 3) - 8) | 6 | TP AWG 20 | TP29 | |
| *B H_out2 rtn* | J / 2 | 2) - 8) | | | | | | | | 2 | 3) - 8) | 6 | TP AWG 20 | TP21 | |
| *N.C.* | K / 2 | | | | | | | | | | | | | | |

DRAWING TITLE

# AMS TCS

Ram Heaters Thermostats cabling

CARLO GAVAZZI SPACE S.p.A.

| FILE NAME | NEXT ASSY | PARTS LIST NUMBER | REV. |
|---|---|---|---|
| 41-AMS02TCS-200.00.07.xls | 41-AMS02TCS-200.00.00 | 41-AMS02TCS-200.00.07 | / |

*THIS IS AN ELECTRONIC FORM - NO MANUAL ALTERATION*

*ALL RIGHTS RESERVED - COPYRIGHT ACC.TO DIN 34*

## CONNECTION IDENTIFICATION DATA

| FROM TB7/11A | | | TO | | | | | | | | | WIRE / CABLE INFORMATION | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SIGNAL NAME | TB7/11A | REMARKS | J123 | TH9/1 A | TH9/2 A | TH8/1 A | TH8/2 A | | | | REMARKS | POS. n° | CABLE TYPE | TWISTED PAIR | REMARKS |
| *AH_OUT 5* | A / 1 | 2) - 8) | B | | | | | | | | 1) - 8) | 6 | TP AWG 20 | TP7 | |
| *AH_OUT 5* | B / 1 | 2) - 8) | C | | | | | | | | 1) - 8) | 6 | TP AWG 20 | TP8 | |
| *AH_OUT 5* | C / 1 | 2) - 8) | | 2 | | | | | | | 3) - 8) | 6 | TP AWG 20 | TP83 | |
| *AH_OUT 5* | D / 1 | 2) - 8) | | | | 2 | | | | | 3) - 8) | 6 | TP AWG 20 | TP79 | |
| *N.C.* | E / 1 | | | | | | | | | | | | | | |
| *AH_OUT 5 RTN* | F / 1 | 2) - 8) | A | | | | | | | | 1) - 8) | 6 | TP AWG 20 | TP7 | |
| *AH_OUT 5 RTN* | G / 1 | 2) - 8) | F | | | | | | | | 1) - 8) | 6 | TP AWG 20 | TP8 | |
| *AH_OUT 5 RTN* | H / 1 | 2) - 8) | | | 2 | | | | | | 3) - 8) | 6 | TP AWG 20 | TP83 | |
| *AH_OUT 5 RTN* | J / 1 | 2) - 8) | | | | | 2 | | | | 3) - 8) | 6 | TP AWG 20 | TP79 | |
| *N.C.* | K / 1 | | | | | | | | | | | | | | |
| | A / 2 | | | | | | | | | | | | | | |
| | B / 2 | | | | | | | | | | | | | | |
| | C / 2 | | | | | | | | | | | | | | |
| | D / 2 | | | | | | | | | | | | | | |
| | E / 2 | | | | | | | | | | | | | | |
| | F / 2 | | | | | | | | | | | | | | |
| | G / 2 | | | | | | | | | | | | | | |
| | H / 2 | | | | | | | | | | | | | | |
| | J / 2 | | | | | | | | | | | | | | |
| | K / 2 | | | | | | | | | | | | | | |

DRAWING TITLE

# AMS TCS

## Ram Heaters Thermostats cabling

CARLO GAVAZZI SPACE S.p.A.

| FILE NAME | NEXT ASSY | PARTS LIST NUMBER | REV. |
|---|---|---|---|
| 41-AMS02TCS-200.00.07.xls | 41-AMS02TCS-200.00.00 | 41-AMS02TCS-200.00.07 | / |

*THIS IS AN ELECTRONIC FORM - NO MANUAL ALTERATION*

*ALL RIGHTS RESERVED - COPYRIGHT ACC.TO DIN 34*

### CONNECTION IDENTIFICATION DATA

| FROM TB7/11A | | | TO | | | | | | | | | WIRE / CABLE INFORMATION | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SIGNAL NAME | TB7/11A | REMARKS | TH11/1 A | TH11/2 A | TH10/1 A | TH10/2 A | TH7/1 A | TH7/2 A | | | REMARKS | POS. n° | CABLE TYPE | TWISTED PAIR | REMARKS |
| | A / 1 | | | | | | | | | | | | | | |
| | B / 1 | | | | | | | | | | | | | | |
| | C / 1 | | | | | | | | | | | | | | |
| | D / 1 | | | | | | | | | | | | | | |
| | E / 1 | | | | | | | | | | | | | | |
| | F / 1 | | | | | | | | | | | | | | |
| | G / 1 | | | | | | | | | | | | | | |
| | H / 1 | | | | | | | | | | | | | | |
| | J / 1 | | | | | | | | | | | | | | |
| | K / 1 | | | | | | | | | | | | | | |
| *AH_OUT 5* | A / 2 | 2) - 8) | 2 | | | | | | | | 3) - 8) | 6 | TP AWG 20 | TP75 | |
| *AH_OUT 5* | B / 2 | 2) - 8) | | | 2 | | | | | | 3) - 8) | 6 | TP AWG 20 | TP71 | |
| *AH_OUT 5* | C / 2 | 2) - 8) | | | | | 2 | | | | 3) - 8) | 6 | TP AWG 20 | TP67 | |
| *N.C.* | D / 2 | | | | | | | | | | | | | | |
| *N.C.* | E / 2 | | | | | | | | | | | | | | |
| *AH_OUT 5 RTN* | F / 2 | 2) - 8) | | 2 | | | | | | | 3) - 8) | 6 | TP AWG 20 | TP75 | |
| *AH_OUT 5 RTN* | G / 2 | 2) - 8) | | | | 2 | | | | | 3) - 8) | 6 | TP AWG 20 | TP71 | |
| *AH_OUT 5 RTN* | H / 2 | 2) - 8) | | | | | | 2 | | | 3) - 8) | 6 | TP AWG 20 | TP67 | |
| *N.C.* | J / 2 | | | | | | | | | | | | | | |
| *N.C.* | K / 2 | | | | | | | | | | | | | | |

DRAWING TITLE

# AMS TCS

## Ram Heaters Thermostats cabling

CARLO GAVAZZI SPACE S.p.A.

| FILE NAME | NEXT ASSY | PARTS LIST NUMBER | REV. |
|---|---|---|---|
| 41-AMS02TCS-200.00.07.xls | 41-AMS02TCS-200.00.00 | 41-AMS02TCS-200.00.07 | / |

*THIS IS AN ELECTRONIC FORM - NO MANUAL ALTERATION*

*ALL RIGHTS RESERVED - COPYRIGHT ACC.TO DIN 34*

### CONNECTION IDENTIFICATION DATA

| FROM TB7/11B | | | TO | | | | | | | | | WIRE / CABLE INFORMATION | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SIGNAL NAME | TB7/11B | REMARKS | J223 | TH9/1 B | TH9/2 B | TH8/1 B | TH8/2 B | | | | REMARKS | POS. n° | CABLE TYPE | TWISTED PAIR | REMARKS |
| *BH_OUT 5* | A / 1 | 2) - 8) | B | | | | | | | | 1) - 8) | 6 | TP AWG 20 | TP9 | |
| *BH_OUT 5* | B / 1 | 2) - 8) | C | | | | | | | | 1) - 8) | 6 | TP AWG 20 | TP10 | |
| *BH_OUT 5* | C / 1 | 2) - 8) | | 2 | | | | | | | 3) - 8) | 6 | TP AWG 20 | TP84 | |
| *BH_OUT 5* | D / 1 | 2) - 8) | | | | 2 | | | | | 3) - 8) | 6 | TP AWG 20 | TP80 | |
| *N.C.* | E / 1 | | | | | | | | | | | | | | |
| *N.C.* | F / 1 | | | | | | | | | | | | | | |
| *BH_OUT 5 RTN* | G / 1 | 2) - 8) | F | | | | | | | | 1) - 8) | 6 | TP AWG 20 | TP10 | |
| *BH_OUT 5 RTN* | H / 1 | 2) - 8) | | | 2 | | | | | | 3) - 8) | 6 | TP AWG 20 | TP84 | |
| *BH_OUT 5 RTN* | J / 1 | 2) - 8) | | | | | 2 | | | | 3) - 8) | 6 | TP AWG 20 | TP80 | |
| *BH_OUT 5 RTN* | K / 1 | 2) - 8) | A | | | | | | | | 1) - 8) | 6 | TP AWG 20 | TP9 | |
| | A / 2 | | | | | | | | | | | | | | |
| | B / 2 | | | | | | | | | | | | | | |
| | C / 2 | | | | | | | | | | | | | | |
| | D / 2 | | | | | | | | | | | | | | |
| | E / 2 | | | | | | | | | | | | | | |
| | F / 2 | | | | | | | | | | | | | | |
| | G / 2 | | | | | | | | | | | | | | |
| | H / 2 | | | | | | | | | | | | | | |
| | J / 2 | | | | | | | | | | | | | | |
| | K / 2 | | | | | | | | | | | | | | |

DRAWING TITLE

# AMS TCS

Ram Heaters Thermostats cabling

CARLO GAVAZZI SPACE S.p.A.

| FILE NAME | NEXT ASSY | PARTS LIST NUMBER | REV. |
|---|---|---|---|
| 41-AMS02TCS-200.00.07.xls | 41-AMS02TCS-200.00.00 | 41-AMS02TCS-200.00.07 | / |

*THIS IS AN ELECTRONIC FORM - NO MANUAL ALTERATION*

*ALL RIGHTS RESERVED - COPYRIGHT ACC.TO DIN 34*

## CONNECTION IDENTIFICATION DATA

| FROM TB7/11B | | | TO | | | | | | | | | WIRE / CABLE INFORMATION | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SIGNAL NAME | TB7/11B | REMARKS | TH11/1 B | TH11/2 B | TH10/1 B | TH10/2 B | TH7/1 B | TH7/2 B | | | REMARKS | POS. n° | CABLE TYPE | TWISTED PAIR | REMARKS |
| | A / 1 | | | | | | | | | | | | | | |
| | B / 1 | | | | | | | | | | | | | | |
| | C / 1 | | | | | | | | | | | | | | |
| | D / 1 | | | | | | | | | | | | | | |
| | E / 1 | | | | | | | | | | | | | | |
| | F / 1 | | | | | | | | | | | | | | |
| | G / 1 | | | | | | | | | | | | | | |
| | H / 1 | | | | | | | | | | | | | | |
| | J / 1 | | | | | | | | | | | | | | |
| | K / 1 | | | | | | | | | | | | | | |
| *BH_OUT 5* | A / 2 | 2) - 8) | 2 | | | | | | | | 3) - 8) | 6 | TP AWG 20 | TP76 | |
| *BH_OUT 5* | B / 2 | 2) - 8) | | | 2 | | | | | | 3) - 8) | 6 | TP AWG 20 | TP72 | |
| *BH_OUT 5* | C / 2 | 2) - 8) | | | | | 2 | | | | 3) - 8) | 6 | TP AWG 20 | TP68 | |
| *N.C.* | D / 2 | | | | | | | | | | | | | | |
| *N.C.* | E / 2 | | | | | | | | | | | | | | |
| *BH_OUT 5 RTN* | F / 2 | 2) - 8) | | 2 | | | | | | | 3) - 8) | 6 | TP AWG 20 | TP76 | |
| *BH_OUT 5 RTN* | G / 2 | 2) - 8) | | | | 2 | | | | | 3) - 8) | 6 | TP AWG 20 | TP72 | |
| *BH_OUT 5 RTN* | H / 2 | 2) - 8) | | | | | | 2 | | | 3) - 8) | 6 | TP AWG 20 | TP68 | |
| *N.C.* | J / 2 | | | | | | | | | | | | | | |
| *N.C.* | K / 2 | | | | | | | | | | | | | | |

DRAWING TITLE

# AMS TCS

Ram Heaters Thermostats cabling

CARLO GAVAZZI SPACE S.p.A.

| FILE NAME | NEXT ASSY | PARTS LIST NUMBER | REV. |
|---|---|---|---|
| 41-AMS02TCS-200.00.07.xls | 41-AMS02TCS-200.00.00 | 41-AMS02TCS-200.00.07 | / |

*THIS IS AN ELECTRONIC FORM - NO MANUAL ALTERATION*

*ALL RIGHTS RESERVED - COPYRIGHT ACC.TO DIN 34*

## CONNECTION IDENTIFICATION DATA

| FROM J122 | | | TO | | | | | | | | | WIRE / CABLE INFORMATION | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SIGNAL NAME | J122 | REMARKS | TB1/6 A | | | | | | | | REMARKS | POS. n° | CABLE TYPE | TWISTED PAIR | REMARKS |
| *AH_OUT 2 RTN* | A | 1) | F/1 | | | | | | | | 2) - 8) | 6 | TP AWG 20 | TP1 | |
| *AH_OUT 2* | B | 1) | A/1 | | | | | | | | 2) - 8) | 6 | TP AWG 20 | TP1 | |
| *AH_OUT 2* | C | 1) | B/1 | | | | | | | | 2) - 8) | 6 | TP AWG 20 | TP2 | |
| *AH_OUT 2* | D | 1) | C/1 | | | | | | | | 2) - 8) | 6 | TP AWG 20 | TP3 | |
| *AH_OUT 2 RTN* | E | 1) | G/1 | | | | | | | | 2) - 8) | 6 | TP AWG 20 | TP3 | |
| *AH_OUT 2 RTN* | F | 1) | H/1 | | | | | | | | 2) - 8) | 6 | TP AWG 20 | TP2 | |

DRAWING TITLE

# AMS TCS

Ram Heaters Thermostats cabling

CARLO GAVAZZI SPACE S.p.A.

| FILE NAME | NEXT ASSY | PARTS LIST NUMBER | REV. |
|---|---|---|---|
| 41-AMS02TCS-200.00.07.xls | 41-AMS02TCS-200.00.00 | 41-AMS02TCS-200.00.07 | / |

*THIS IS AN ELECTRONIC FORM - NO MANUAL ALTERATION*

*ALL RIGHTS RESERVED - COPYRIGHT ACC.TO DIN 34*

## CONNECTION IDENTIFICATION DATA

| FROM J123 | | | TO | | | | | | | | | WIRE / CABLE INFORMATION | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SIGNAL NAME | J123 | REMARKS | TB7/11 A | | | | | | | | REMARKS | POS. n° | CABLE TYPE | TWISTED PAIR | REMARKS |
| *AH_OUT 5 RTN* | A | 1) | F/1 | | | | | | | | 2) - 8) | 6 | TP AWG 20 | TP7 | |
| *AH_OUT 5* | B | 1) | A/1 | | | | | | | | 2) - 8) | 6 | TP AWG 20 | TP7 | |
| *AH_OUT 5* | C | 1) | B/1 | | | | | | | | 2) - 8) | 6 | TP AWG 20 | TP8 | |
| *N.C.* | D | 7) | | | | | | | | | | | | | |
| *N.C.* | E | 7) | | | | | | | | | | | | | |
| *AH_OUT 5 RTN* | F | 1) | G/1 | | | | | | | | 2) - 8) | 6 | TP AWG 20 | TP8 | |

DRAWING TITLE

# AMS TCS

Ram Heaters Thermostats cabling

CARLO GAVAZZI SPACE S.p.A.

| FILE NAME | NEXT ASSY | PARTS LIST NUMBER | REV. |
|---|---|---|---|
| 41-AMS02TCS-200.00.07.xls | 41-AMS02TCS-200.00.00 | 41-AMS02TCS-200.00.07 | / |

*THIS IS AN ELECTRONIC FORM - NO MANUAL ALTERATION*

*ALL RIGHTS RESERVED - COPYRIGHT ACC.TO DIN 34*

## CONNECTION IDENTIFICATION DATA

| FROM J222 | | | TO | | | | | | | | | WIRE / CABLE INFORMATION | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SIGNAL NAME | J222 | REMARKS | TB1/6 B | | | | | | | | REMARKS | POS. n° | CABLE TYPE | TWISTED PAIR | REMARKS |
| *BH_OUT 2 RTN* | A | 1) | F/1 | | | | | | | | 2) - 8) | 6 | TP AWG 20 | TP4 | |
| *BH_OUT 2* | B | 1) | A/1 | | | | | | | | 2) - 8) | 6 | TP AWG 20 | TP4 | |
| *BH_OUT 2* | C | 1) | B/1 | | | | | | | | 2) - 8) | 6 | TP AWG 20 | TP5 | |
| *BH_OUT 2* | D | 1) | C/1 | | | | | | | | 2) - 8) | 6 | TP AWG 20 | TP6 | |
| *BH_OUT 2 RTN* | E | 1) | G/1 | | | | | | | | 2) - 8) | 6 | TP AWG 20 | TP5 | |
| *BH_OUT 2 RTN* | F | 1) | H/1 | | | | | | | | 2) - 8) | 6 | TP AWG 20 | TP6 | |

DRAWING TITLE

# AMS TCS

Ram Heaters Thermostats cabling

CARLO GAVAZZI SPACE S.p.A.

| FILE NAME | NEXT ASSY | PARTS LIST NUMBER | REV. |
|---|---|---|---|
| 41-AMS02TCS-200.00.07.xls | 41-AMS02TCS-200.00.00 | 41-AMS02TCS-200.00.07 | / |

*THIS IS AN ELECTRONIC FORM - NO MANUAL ALTERATION*

*ALL RIGHTS RESERVED - COPYRIGHT ACC.TO DIN 34*

## CONNECTION IDENTIFICATION DATA

| FROM J223 | | | TO | | | | | | | | | WIRE / CABLE INFORMATION | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SIGNAL NAME | J223 | REMARKS | TB7/11 B | | | | | | | | REMARKS | POS. n° | CABLE TYPE | TWISTED PAIR | REMARKS |
| *BH_OUT 5 RTN* | A | 1) | K/1 | | | | | | | | 2) - 8) | 6 | TP AWG 20 | TP9 | |
| *BH_OUT 5* | B | 1) | A/1 | | | | | | | | 2) - 8) | 6 | TP AWG 20 | TP9 | |
| *BH_OUT 5* | C | 1) | B/1 | | | | | | | | 2) - 8) | 6 | TP AWG 20 | TP10 | |
| *N.C.* | D | | | | | | | | | | | | | | |
| *N.C.* | E | | | | | | | | | | | | | | |
| *BH_OUT 5 RTN* | F | 1) | G/1 | | | | | | | | 2) - 8) | 6 | TP AWG 20 | TP10 | |

DRAWING TITLE

# AMS TCS

Ram Heaters Thermostats cabling

CARLO GAVAZZI SPACE S.p.A.

| FILE NAME | NEXT ASSY | PARTS LIST NUMBER | REV. |
|---|---|---|---|
| 41-AMS02TCS-200.00.07.xls | 41-AMS02TCS-200.00.00 | 41-AMS02TCS-200.00.07 | / |

*THIS IS AN ELECTRONIC FORM - NO MANUAL ALTERATION*

*ALL RIGHTS RESERVED - COPYRIGHT ACC.TO DIN 34*

## CONNECTION IDENTIFICATION DATA

| FROM TB1A | | | TO | | | | | | | | | WIRE / CABLE INFORMATION | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SIGNAL NAME | TB1A | REMARKS | HR1/1 | HR1/2 | HR1/3 | HR1/4 | TH1/1 A | TH1/2 A | | | REMARKS | POS. n° | CABLE TYPE | TWISTED PAIR | REMARKS |
| *Out 2 A + 120 V* | A | 2) - 8) | 1 | | | | | | | | 4) | | TP AWG 20 | TP11 | |
| *Out 2 A + 120 V* | B | 2) - 8) | | 1 | | | | | | | 4) | | TP AWG 20 | TP13 | |
| *Out 2 A + 120 V* | C | 5) - 8) | | | 1 | | | | | | 4) | | TP AWG 24 | TP15 | |
| *Out 2 A + 120 V* | D | 5) - 8) | | | | 1 | | | | | 4) | | TP AWG 24 | TP17 | |
| *Out 2 A + 120 V* | E | 2) - 8) | | | | | 1 | | | | 3) - 8) | 6 | TP AWG 20 | TP20 | |
| *Out 2 A + 120 V Rtn* | F | 2) - 8) | 2 | | | | | | | | 4) | | TP AWG 20 | TP11 | |
| *Out 2 A + 120 V Rtn* | G | 2) - 8) | | 2 | | | | | | | 4) | | TP AWG 20 | TP13 | |
| *Out 2 A + 120 V Rtn* | H | 5) - 8) | | | 2 | | | | | | 4) | | TP AWG 24 | TP15 | |
| *Out 2 A + 120 V Rtn* | J | 5) - 8) | | | | 2 | | | | | 4) | | TP AWG 24 | TP17 | |
| *Out 2 A + 120 V Rtn* | K | 2) - 8) | | | | | | 1 | | | 3) - 8) | 6 | TP AWG 20 | TP20 | |

DRAWING TITLE

# AMS TCS

Ram Heaters Thermostats cabling

CARLO GAVAZZI SPACE S.p.A.

| FILE NAME | NEXT ASSY | PARTS LIST NUMBER | REV. |
|---|---|---|---|
| 41-AMS02TCS-200.00.07.xls | 41-AMS02TCS-200.00.00 | 41-AMS02TCS-200.00.07 | / |

*THIS IS AN ELECTRONIC FORM - NO MANUAL ALTERATION*

*ALL RIGHTS RESERVED - COPYRIGHT ACC.TO DIN 34*

## CONNECTION IDENTIFICATION DATA

| FROM TB1B | | | TO | | | | | | | | | WIRE / CABLE INFORMATION | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SIGNAL NAME | TB1B | REMARKS | HR1/1 | HR1/2 | HR1/3 | HR1/4 | TH1/1 B | TH1/2 B | | | REMARKS | POS. n° | CABLE TYPE | TWISTED PAIR | REMARKS |
| *Out 2 B + 120 V* | A | 2) - 8) | 3 | | | | | | | | 4) | | TP AWG 20 | TP12 | |
| *Out 2 B + 120 V* | B | 2) - 8) | | 3 | | | | | | | 4) | | TP AWG 20 | TP14 | |
| *Out 2 B + 120 V* | C | 5) - 8) | | | 3 | | | | | | 4) | | TP AWG 24 | TP16 | |
| *Out 2 B + 120 V* | D | 5) - 8) | | | | 3 | | | | | 4) | | TP AWG 24 | TP18 | |
| *Out 2 B + 120 V* | E | 2) - 8) | | | | | 1 | | | | 3) - 8) | 6 | TP AWG 20 | TP22 | |
| *Out 2 B + 120 V Rtn* | F | 2) - 8) | 4 | | | | | | | | 4) | | TP AWG 20 | TP12 | |
| *Out 2 B + 120 V Rtn* | G | 2) - 8) | | 4 | | | | | | | 4) | | TP AWG 20 | TP14 | |
| *Out 2 B + 120 V Rtn* | H | 5) - 8) | | | 4 | | | | | | 4) | | TP AWG 24 | TP16 | |
| *Out 2 B + 120 V Rtn* | J | 5) - 8) | | | | 4 | | | | | 4) | | TP AWG 24 | TP18 | |
| *Out 2 B + 120 V Rtn* | K | 2) - 8) | | | | | | 1 | | | 3) - 8) | 6 | TP AWG 20 | TP22 | |

DRAWING TITLE

# AMS TCS

## Ram Heaters Thermostats cabling

CARLO GAVAZZI SPACE S.p.A.

| FILE NAME | NEXT ASSY | PARTS LIST NUMBER | REV. |
|---|---|---|---|
| 41-AMS02TCS-200.00.07.xls | 41-AMS02TCS-200.00.00 | 41-AMS02TCS-200.00.07 | / |

*THIS IS AN ELECTRONIC FORM - NO MANUAL ALTERATION*

*ALL RIGHTS RESERVED - COPYRIGHT ACC.TO DIN 34*

### CONNECTION IDENTIFICATION DATA

| FROM TB2A | | | TO | | | | | | | | | WIRE / CABLE INFORMATION | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SIGNAL NAME | TB2A | REMARKS | HR2/1 | HR2/2 | TH2/1 A | TH2/2 A | | | | | REMARKS | POS. n° | CABLE TYPE | TWISTED PAIR | REMARKS |
| *Out 2 A + 120 V* | A | 5) - 8) | 1 | | | | | | | | 4) | | TP AWG 24 | TP23 | |
| *Out 2 A + 120 V* | B | 5) - 8) | | 1 | | | | | | | 4) | | TP AWG 24 | TP25 | |
| *Spare* | C | | | | | | | | | | | | | | |
| *Spare* | D | | | | | | | | | | | | | | |
| *Out 2 A + 120 V* | E | 2) - 8) | | | 1 | | | | | | 3) - 8) | 6 | TP AWG 20 | TP28 | |
| *Out 2 A + 120 V Rtn* | F | 5) - 8) | 2 | | | | | | | | 4) | | TP AWG 24 | TP23 | |
| *Out 2 A + 120 V Rtn* | G | 5) - 8) | | 2 | | | | | | | 4) | | TP AWG 24 | TP25 | |
| *Spare* | H | | | | | | | | | | | | | | |
| *Spare* | J | | | | | | | | | | | | | | |
| *Out 2 A + 120 V Rtn* | K | 2) - 8) | | | | 1 | | | | | 3) - 8) | 6 | TP AWG 20 | TP28 | |

DRAWING TITLE

# AMS TCS

Ram Heaters Thermostats cabling

CARLO GAVAZZI SPACE S.p.A.

| FILE NAME | NEXT ASSY | PARTS LIST NUMBER | REV. |
|---|---|---|---|
| 41-AMS02TCS-200.00.07.xls | 41-AMS02TCS-200.00.00 | 41-AMS02TCS-200.00.07 | / |

*THIS IS AN ELECTRONIC FORM - NO MANUAL ALTERATION*

*ALL RIGHTS RESERVED - COPYRIGHT ACC.TO DIN 34*

## CONNECTION IDENTIFICATION DATA

| FROM TB2B | | | TO | | | | | | | | | WIRE / CABLE INFORMATION | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SIGNAL NAME | TB2B | REMARKS | HR2/1 | HR2/2 | TH2/1 B | TH2/2 B | | | | | REMARKS | POS. n° | CABLE TYPE | TWISTED PAIR | REMARKS |
| *Out 2 B + 120 V* | A | 5) - 8) | 3 | | | | | | | | 4) | | TP AWG 24 | TP24 | |
| *Out 2 B + 120 V* | B | 5) - 8) | | 3 | | | | | | | 4) | | TP AWG 24 | TP26 | |
| *Spare* | C | | | | | | | | | | | | | | |
| *Spare* | D | | | | | | | | | | | | | | |
| *Out 2 B + 120 V* | E | 2) - 8) | | | 1 | | | | | | 3) - 8) | 6 | TP AWG 20 | TP30 | |
| *Out 2 B + 120 V Rtn* | F | 5) - 8) | 4 | | | | | | | | 4) | | TP AWG 24 | TP24 | |
| *Out 2 B + 120 V Rtn* | G | 5) - 8) | | 4 | | | | | | | 4) | | TP AWG 24 | TP26 | |
| *Spare* | H | | | | | | | | | | | | | | |
| *Spare* | J | | | | | | | | | | | | | | |
| *Out 2 B + 120 V Rtn* | K | 2) - 8) | | | | 1 | | | | | 3) - 8) | 6 | TP AWG 20 | TP30 | |

DRAWING TITLE

# AMS TCS

Ram Heaters Thermostats cabling

CARLO GAVAZZI SPACE S.p.A.

| FILE NAME | NEXT ASSY | PARTS LIST NUMBER | REV. |
|---|---|---|---|
| 41-AMS02TCS-200.00.07.xls | 41-AMS02TCS-200.00.00 | 41-AMS02TCS-200.00.07 | / |

*THIS IS AN ELECTRONIC FORM - NO MANUAL ALTERATION*

*ALL RIGHTS RESERVED - COPYRIGHT ACC.TO DIN 34*

## CONNECTION IDENTIFICATION DATA

| FROM TB3A | | | TO | | | | | | | | | WIRE / CABLE INFORMATION | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SIGNAL NAME | TB3A | REMARKS | HR3/1 | HR3/2 | TH3/1 A | TH3/2 A | | | | | REMARKS | POS. n° | CABLE TYPE | TWISTED PAIR | REMARKS |
| *Out 2 A + 120 V* | A | 5) - 8) | 1 | | | | | | | | 4) | | TP AWG 24 | TP31 | |
| *Out 2 A + 120 V* | B | 5) - 8) | | 1 | | | | | | | 4) | | TP AWG 24 | TP33 | |
| *Spare* | C | | | | | | | | | | | | | | |
| *Spare* | D | | | | | | | | | | | | | | |
| *Out 2 A + 120 V* | E | 2) - 8) | | | 1 | | | | | | 3) - 8) | 6 | TP AWG 20 | TP36 | |
| *Out 2 A + 120 V Rtn* | F | 5) - 8) | 2 | | | | | | | | 4) | | TP AWG 24 | TP31 | |
| *Out 2 A + 120 V Rtn* | G | 5) - 8) | | 2 | | | | | | | 4) | | TP AWG 24 | TP33 | |
| *Spare* | H | | | | | | | | | | | | | | |
| *Spare* | J | | | | | | | | | | | | | | |
| *Out 2 A + 120 V Rtn* | K | 2) - 8) | | | | 1 | | | | | 3) - 8) | 6 | TP AWG 20 | TP36 | |

DRAWING TITLE

# AMS TCS

Ram Heaters Thermostats cabling

CARLO GAVAZZI SPACE S.p.A.

| FILE NAME | NEXT ASSY | PARTS LIST NUMBER | REV. |
|---|---|---|---|
| 41-AMS02TCS-200.00.07.xls | 41-AMS02TCS-200.00.00 | 41-AMS02TCS-200.00.07 | / |

*THIS IS AN ELECTRONIC FORM - NO MANUAL ALTERATION*

*ALL RIGHTS RESERVED - COPYRIGHT ACC.TO DIN 34*

## CONNECTION IDENTIFICATION DATA

| FROM TB3B | | | TO | | | | | | | | | WIRE / CABLE INFORMATION | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SIGNAL NAME | TB3B | REMARKS | HR3/1 | HR3/2 | TH3/1 B | TH3/2 B | | | | | REMARKS | POS. n° | CABLE TYPE | TWISTED PAIR | REMARKS |
| *Out 2 B + 120 V* | A | 5) - 8) | 3 | | | | | | | | 4) | | TP AWG 24 | TP32 | |
| *Out 2 B + 120 V* | B | 5) - 8) | | 3 | | | | | | | 4) | | TP AWG 24 | TP34 | |
| *Spare* | C | | | | | | | | | | | | | | |
| *Spare* | D | | | | | | | | | | | | | | |
| *Out 2 B + 120 V* | E | 2) - 8) | | | 1 | | | | | | 3) - 8) | 6 | TP AWG 20 | TP38 | |
| *Out 2 B + 120 V Rtn* | F | 5) - 8) | 4 | | | | | | | | 4) | | TP AWG 24 | TP32 | |
| *Out 2 B + 120 V Rtn* | G | 5) - 8) | | 4 | | | | | | | 4) | | TP AWG 24 | TP34 | |
| *Spare* | H | | | | | | | | | | | | | | |
| *Spare* | J | | | | | | | | | | | | | | |
| *Out 2 B + 120 V Rtn* | K | 2) - 8) | | | | 1 | | | | | 3) - 8) | 6 | TP AWG 20 | TP38 | |

DRAWING TITLE

# AMS TCS

Ram Heaters Thermostats cabling

CARLO GAVAZZI SPACE S.p.A.

| FILE NAME | NEXT ASSY | PARTS LIST NUMBER | REV. |
|---|---|---|---|
| 41-AMS02TCS-200.00.07.xls | 41-AMS02TCS-200.00.00 | 41-AMS02TCS-200.00.07 | / |

*THIS IS AN ELECTRONIC FORM - NO MANUAL ALTERATION*

*ALL RIGHTS RESERVED - COPYRIGHT ACC.TO DIN 34*

## CONNECTION IDENTIFICATION DATA

| FROM TB4A | | | TO | | | | | | | | | WIRE / CABLE INFORMATION | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SIGNAL NAME | TB4A | REMARKS | HR4/1 | HR4/2 | TH4/1 A | TH4/2 A | | | | | REMARKS | POS. n° | CABLE TYPE | TWISTED PAIR | REMARKS |
| *Out 2 A + 120 V* | A | 2) - 8) | 1 | | | | | | | | 4) | | TP AWG 20 | TP39 | |
| *Out 2 A + 120 V* | B | 2) - 8) | | 1 | | | | | | | 4) | | TP AWG 20 | TP41 | |
| *Spare* | C | | | | | | | | | | | | | | |
| *Spare* | D | | | | | | | | | | | | | | |
| *Out 2 A + 120 V* | E | 2) - 8) | | | 1 | | | | | | 3) - 8) | 6 | TP AWG 20 | TP44 | |
| *Out 2 A + 120 V Rtn* | F | 2) - 8) | 2 | | | | | | | | 4) | | TP AWG 20 | TP39 | |
| *Out 2 A + 120 V Rtn* | G | 2) - 8) | | 2 | | | | | | | 4) | | TP AWG 20 | TP41 | |
| *Spare* | H | | | | | | | | | | | | | | |
| *Spare* | J | | | | | | | | | | | | | | |
| *Out 2 A + 120 V Rtn* | K | 2) - 8) | | | | 1 | | | | | 3) - 8) | 6 | TP AWG 20 | TP44 | |

DRAWING TITLE

# AMS TCS

## Ram Heaters Thermostats cabling

CARLO GAVAZZI SPACE S.p.A.

| FILE NAME | NEXT ASSY | PARTS LIST NUMBER | REV. |
|---|---|---|---|
| 41-AMS02TCS-200.00.07.xls | 41-AMS02TCS-200.00.00 | 41-AMS02TCS-200.00.07 | / |

*THIS IS AN ELECTRONIC FORM - NO MANUAL ALTERATION*

*ALL RIGHTS RESERVED - COPYRIGHT ACC.TO DIN 34*

### CONNECTION IDENTIFICATION DATA

| FROM TB4B | | | TO | | | | | | | | | WIRE / CABLE INFORMATION | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SIGNAL NAME | TB4B | REMARKS | HR4/1 | HR4/2 | TH4/1 B | TH4/2 B | | | | | REMARKS | POS. n° | CABLE TYPE | TWISTED PAIR | REMARKS |
| *Out 2 B + 120 V* | A | 2) - 8) | 3 | | | | | | | | 4) | | TP AWG 20 | TP40 | |
| *Out 2 B + 120 V* | B | 2) - 8) | | 3 | | | | | | | 4) | | TP AWG 20 | TP42 | |
| *Spare* | C | | | | | | | | | | | | | | |
| *Spare* | D | | | | | | | | | | | | | | |
| *Out 2 B + 120 V* | E | 2) - 8) | | | 1 | | | | | | 3) - 8) | 6 | TP AWG 20 | TP46 | |
| *Out 2 B + 120 V Rtn* | F | 2) - 8) | 4 | | | | | | | | 4) | | TP AWG 20 | TP40 | |
| *Out 2 B + 120 V Rtn* | G | 2) - 8) | | 4 | | | | | | | 4) | | TP AWG 20 | TP42 | |
| *Spare* | H | | | | | | | | | | | | | | |
| *Spare* | J | | | | | | | | | | | | | | |
| *Out 2 B + 120 V Rtn* | K | 2) - 8) | | | | 1 | | | | | 3) - 8) | 6 | TP AWG 20 | TP46 | |

DRAWING TITLE

# AMS TCS

Ram Heaters Thermostats cabling

CARLO GAVAZZI SPACE S.p.A.

| FILE NAME | NEXT ASSY | PARTS LIST NUMBER | REV. |
|---|---|---|---|
| 41-AMS02TCS-200.00.07.xls | 41-AMS02TCS-200.00.00 | 41-AMS02TCS-200.00.07 | / |

*THIS IS AN ELECTRONIC FORM - NO MANUAL ALTERATION*

*ALL RIGHTS RESERVED - COPYRIGHT ACC.TO DIN 34*

## CONNECTION IDENTIFICATION DATA

| FROM TB5A | | | TO | | | | | | | | | WIRE / CABLE INFORMATION | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SIGNAL NAME | TB5A | REMARKS | HR5/1 | HR5/2 | HR5/3 | TH5/1 A | TH5/2 A | | | | REMARKS | POS. n° | CABLE TYPE | TWISTED PAIR | REMARKS |
| *Out 2 A + 120 V* | A | 2) - 8) | 1 | | | | | | | | 4) | | TP AWG 20 | TP47 | |
| *Out 2 A + 120 V* | B | 2) - 8) | | 1 | | | | | | | 4) | | TP AWG 20 | TP49 | |
| *Out 2 A + 120 V* | C | 2) - 8) | | | 1 | | | | | | 4) | | TP AWG 20 | TP51 | |
| *Spare* | D | | | | | | | | | | | | | | |
| *Out 2 A + 120 V* | E | 2) - 8) | | | | 1 | | | | | 3) - 8) | | TP AWG 20 | TP54 | |
| *Out 2 A + 120 V Rtn* | F | 2) - 8) | 2 | | | | | | | | 4) | | TP AWG 20 | TP47 | |
| *Out 2 A + 120 V Rtn* | G | 2) - 8) | | 2 | | | | | | | 4) | | TP AWG 20 | TP49 | |
| *Out 2 A + 120 V Rtn* | H | 2) - 8) | | | 2 | | | | | | 4) | | TP AWG 20 | TP51 | |
| *Spare* | J | | | | | | | | | | | | | | |
| *Out 2 A + 120 V Rtn* | K | 2) - 8) | | | | | 1 | | | | 3) - 8) | | TP AWG 20 | TP54 | |

DRAWING TITLE

# AMS TCS

Ram Heaters Thermostats cabling

CARLO GAVAZZI SPACE S.p.A.

| FILE NAME | NEXT ASSY | PARTS LIST NUMBER | REV. |
|---|---|---|---|
| 41-AMS02TCS-200.00.07.xls | 41-AMS02TCS-200.00.00 | 41-AMS02TCS-200.00.07 | / |

*THIS IS AN ELECTRONIC FORM - NO MANUAL ALTERATION*

*ALL RIGHTS RESERVED - COPYRIGHT ACC.TO DIN 34*

## CONNECTION IDENTIFICATION DATA

| FROM TB5B | | | TO | | | | | | | | | WIRE / CABLE INFORMATION | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SIGNAL NAME | TB5B | REMARKS | HR5/1 | HR5/2 | HR5/3 | TH5/1 B | TH5/2 B | | | | REMARKS | POS. n° | CABLE TYPE | TWISTED PAIR | REMARKS |
| *Out 2 B + 120 V* | A | 2) - 8) | 3 | | | | | | | | 4) | | TP AWG 20 | TP48 | |
| *Out 2 B + 120 V* | B | 2) - 8) | | 3 | | | | | | | 4) | | TP AWG 20 | TP50 | |
| *Out 2 B + 120 V* | C | 2) - 8) | | | 3 | | | | | | 4) | | TP AWG 20 | TP52 | |
| *Spare* | D | | | | | | | | | | | | | | |
| *Out 2 B + 120 V* | E | 2) - 8) | | | | 1 | | | | | 3) - 8) | 6 | TP AWG 20 | TP56 | |
| *Out 2 B + 120 V Rtn* | F | 2) - 8) | 4 | | | | | | | | 4) | | TP AWG 20 | TP48 | |
| *Out 2 B + 120 V Rtn* | G | 2) - 8) | | 4 | | | | | | | 4) | | TP AWG 20 | TP50 | |
| *Out 2 B + 120 V Rtn* | H | 2) - 8) | | | 4 | | | | | | 4) | | TP AWG 20 | TP52 | |
| *Spare* | J | | | | | | | | | | | | | | |
| *Out 2 B + 120 V Rtn* | K | 2) - 8) | | | | | 1 | | | | 3) - 8) | 6 | TP AWG 20 | TP56 | |

DRAWING TITLE

# AMS TCS

Ram Heaters Thermostats cabling

CARLO GAVAZZI SPACE S.p.A.

| FILE NAME | NEXT ASSY | PARTS LIST NUMBER | REV. |
|---|---|---|---|
| 41-AMS02TCS-200.00.07.xls | 41-AMS02TCS-200.00.00 | 41-AMS02TCS-200.00.07 | / |

*THIS IS AN ELECTRONIC FORM - NO MANUAL ALTERATION*

*ALL RIGHTS RESERVED - COPYRIGHT ACC.TO DIN 34*

## CONNECTION IDENTIFICATION DATA

| FROM TB6A | | | TO | | | | | | | | | WIRE / CABLE INFORMATION | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SIGNAL NAME | TB6A | REMARKS | HR6/1 | HR6/2 | HR6/3 | TH6/1 A | TH6/2 A | | | | REMARKS | POS. n° | CABLE TYPE | TWISTED PAIR | REMARKS |
| *Out 2 A + 120 V* | A | 2) - 8) | 1 | | | | | | | | 4) | | TP AWG 20 | TP57 | |
| *Out 2 A + 120 V* | B | 2) - 8) | | 1 | | | | | | | 4) | | TP AWG 20 | TP59 | |
| *Out 2 A + 120 V* | C | 2) - 8) | | | 1 | | | | | | 4) | | TP AWG 20 | TP61 | |
| *Spare* | D | | | | | | | | | | | | | | |
| *Out 2 A + 120 V* | E | 2) - 8) | | | | 1 | | | | | 3) - 8) | | TP AWG 20 | TP64 | |
| *Out 2 A + 120 V Rtn* | F | 2) - 8) | 2 | | | | | | | | 4) | | TP AWG 20 | TP57 | |
| *Out 2 A + 120 V Rtn* | G | 2) - 8) | | 2 | | | | | | | 4) | | TP AWG 20 | TP59 | |
| *Out 2 A + 120 V Rtn* | H | 2) - 8) | | | 2 | | | | | | 4) | | TP AWG 20 | TP61 | |
| *Spare* | J | | | | | | | | | | | | | | |
| *Out 2 A + 120 V Rtn* | K | 2) - 8) | | | | | 1 | | | | 3) - 8) | | TP AWG 20 | TP64 | |

DRAWING TITLE

# AMS TCS

Ram Heaters Thermostats cabling

CARLO GAVAZZI SPACE S.p.A.

| FILE NAME | NEXT ASSY | PARTS LIST NUMBER | REV. |
|---|---|---|---|
| 41-AMS02TCS-200.00.07.xls | 41-AMS02TCS-200.00.00 | 41-AMS02TCS-200.00.07 | / |

*THIS IS AN ELECTRONIC FORM - NO MANUAL ALTERATION*

*ALL RIGHTS RESERVED - COPYRIGHT ACC.TO DIN 34*

## CONNECTION IDENTIFICATION DATA

| FROM TB6B | | | TO | | | | | | | | | WIRE / CABLE INFORMATION | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SIGNAL NAME | TB6B | REMARKS | HR6/1 | HR6/2 | HR6/3 | TH6/1 B | TH6/2 B | | | | REMARKS | POS. n° | CABLE TYPE | TWISTED PAIR | REMARKS |
| *Out 2 B + 120 V* | A | 2) - 8) | 3 | | | | | | | | 4) | | TP AWG 20 | TP58 | |
| *Out 2 B + 120 V* | B | 2) - 8) | | 3 | | | | | | | 4) | | TP AWG 20 | TP60 | |
| *Out 2 B + 120 V* | C | 2) - 8) | | | 3 | | | | | | 4) | | TP AWG 20 | TP62 | |
| *Spare* | D | | | | | | | | | | | | | | |
| *Out 2 B + 120 V* | E | 2) - 8) | | | | 1 | | | | | 3) - 8) | | TP AWG 20 | TP66 | |
| *Out 2 B + 120 V Rtn* | F | 2) - 8) | 4 | | | | | | | | 4) | | TP AWG 20 | TP58 | |
| *Out 2 B + 120 V Rtn* | G | 2) - 8) | | 4 | | | | | | | 4) | | TP AWG 20 | TP60 | |
| *Out 2 B + 120 V Rtn* | H | 2) - 8) | | | 4 | | | | | | 4) | | TP AWG 20 | TP62 | |
| *Spare* | J | | | | | | | | | | | | | | |
| *Out 2 B + 120 V Rtn* | K | 2) - 8) | | | | | 1 | | | | 3) - 8) | | TP AWG 20 | TP66 | |

DRAWING TITLE

# AMS TCS

Ram Heaters Thermostats cabling

CARLO GAVAZZI SPACE S.p.A.

| FILE NAME | NEXT ASSY | PARTS LIST NUMBER | REV. |
|---|---|---|---|
| 41-AMS02TCS-200.00.07.xls | 41-AMS02TCS-200.00.00 | 41-AMS02TCS-200.00.07 | / |

*THIS IS AN ELECTRONIC FORM - NO MANUAL ALTERATION*

*ALL RIGHTS RESERVED - COPYRIGHT ACC.TO DIN 34*

## CONNECTION IDENTIFICATION DATA

| FROM HR7 | | | TO | | | | | | | | | WIRE / CABLE INFORMATION | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SIGNAL NAME | HR7/1 | REMARKS | HR7/2 | TH7/1 A | TH7/2 A | TH7/1 B | TH7/2 B | | | | REMARKS | POS. n° | CABLE TYPE | TWISTED PAIR | REMARKS |
| *Out 5A +120V* | 1 | 4) - 6) - 8) | 1 | | | | | | | | 4) - 6) | | TP AWG 20 | TP69 | |
| *Out 5A +120V rtn* | 2 | 4) - 6) - 8) | 2 | | | | | | | | 4) - 6) | | TP AWG 20 | TP69 | |
| *Out 5B +120V* | 3 | 4) - 6) - 8) | 3 | | | | | | | | 4) - 6) | | TP AWG 20 | TP70 | |
| *Out 5B +120V rtn* | 4 | 4) - 6) - 8) | 4 | | | | | | | | 4) - 6) | | TP AWG 20 | TP70 | |
| | **HR7/2** | | | | | | | | | | | | | | |
| *Out 5A +120V* | 1 | 4) - 6) | | 1 | | | | | | | 3) - 8) | 6 | TP AWG 20 | TP69 | |
| *Out 5A +120V rtn* | 2 | 4) - 6) | | | 1 | | | | | | 3) - 8) | 6 | TP AWG 20 | TP69 | |
| *Out 5B +120V* | 3 | 4) - 6) | | | | 1 | | | | | 3) - 8) | 6 | TP AWG 20 | TP70 | |
| *Out 5B +120V rtn* | 4 | 4) - 6) | | | | | 1 | | | | 3) - 8) | 6 | TP AWG 20 | TP70 | |

DRAWING TITLE

# AMS TCS

Ram Heaters Thermostats cabling

CARLO GAVAZZI SPACE S.p.A.

| FILE NAME | NEXT ASSY | PARTS LIST NUMBER | REV. |
|---|---|---|---|
| 41-AMS02TCS-200.00.07.xls | 41-AMS02TCS-200.00.00 | 41-AMS02TCS-200.00.07 | / |

*THIS IS AN ELECTRONIC FORM - NO MANUAL ALTERATION*

*ALL RIGHTS RESERVED - COPYRIGHT ACC.TO DIN 34*

## CONNECTION IDENTIFICATION DATA

| FROM HR8 | | | TO | | | | | | | | | WIRE / CABLE INFORMATION | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SIGNAL NAME | HR8/1 | REMARKS | HR8/2 | TH8/1A | TH8/1B | TH8/2A | TH8/2B | | | | REMARKS | POS. n° | CABLE TYPE | TWISTED PAIR | REMARKS |
| *Out 5A +120V* | 1 | 4) - 6) - 8) | 1 | | | | | | | | 4) - 6) | | TP AWG 20 | TP73 | |
| *Out 5A +120V rtn* | 2 | 4) - 6) - 8) | 2 | | | | | | | | 4) - 6) | | TP AWG 20 | TP73 | |
| *Out 5B +120V* | 3 | 4) - 6) - 8) | 3 | | | | | | | | 4) - 6) | | TP AWG 20 | TP74 | |
| *Out 5B +120V rtn* | 4 | 4) - 6) - 8) | 4 | | | | | | | | 4) - 6) | | TP AWG 20 | TP74 | |
| | **HR8/2** | | | | | | | | | | | | | | |
| *Out 5A +120V* | 1 | 4) - 6) | | 1 | | | | | | | 3) - 8) | 6 | TP AWG 20 | TP73 | |
| *Out 5A +120V rtn* | 2 | 4) - 6) | | | | 1 | | | | | 3) - 8) | 6 | TP AWG 20 | TP73 | |
| *Out 5B +120V* | 3 | 4) - 6) | | | 1 | | | | | | 3) - 8) | 6 | TP AWG 20 | TP74 | |
| *Out 5B +120V rtn* | 4 | 4) - 6) | | | | | 1 | | | | 3) - 8) | 6 | TP AWG 20 | TP74 | |

DRAWING TITLE

# AMS TCS

Ram Heaters Thermostats cabling

CARLO GAVAZZI SPACE S.p.A.

| FILE NAME | NEXT ASSY | PARTS LIST NUMBER | REV. |
|---|---|---|---|
| 41-AMS02TCS-200.00.07.xls | 41-AMS02TCS-200.00.00 | 41-AMS02TCS-200.00.07 | / |

*THIS IS AN ELECTRONIC FORM - NO MANUAL ALTERATION*

*ALL RIGHTS RESERVED - COPYRIGHT ACC.TO DIN 34*

## CONNECTION IDENTIFICATION DATA

| FROM HR9 | | | TO | | | | | | | | | WIRE / CABLE INFORMATION | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SIGNAL NAME | HR9/1 | REMARKS | HR9/2 | TH9/1A | TH9/1B | TH9/2A | TH9/2B | | | | REMARKS | POS. n° | CABLE TYPE | TWISTED PAIR | REMARKS |
| *Out 5A +120V* | 1 | 4) - 6) - 8) | 1 | | | | | | | | 4) - 6) | | TP AWG 20 | TP77 | |
| *Out 5A +120V rtn* | 2 | 4) - 6) - 8) | 2 | | | | | | | | 4) - 6) | | TP AWG 20 | TP77 | |
| *Out 5B +120V* | 3 | 4) - 6) - 8) | 3 | | | | | | | | 4) - 6) | | TP AWG 20 | TP78 | |
| *Out 5B +120V rtn* | 4 | 4) - 6) - 8) | 4 | | | | | | | | 4) - 6) | | TP AWG 20 | TP78 | |
| | **HR9/2** | | | | | | | | | | | | | | |
| *Out 5A +120V* | 1 | 4) - 6) | | 1 | | | | | | | 3) - 8) | | TP AWG 20 | TP77 | |
| *Out 5A +120V rtn* | 2 | 4) - 6) | | | | 1 | | | | | 3) - 8) | | TP AWG 20 | TP77 | |
| *Out 5B +120V* | 3 | 4) - 6) | | | 1 | | | | | | 3) - 8) | | TP AWG 20 | TP78 | |
| *Out 5B +120V rtn* | 4 | 4) - 6) | | | | | 1 | | | | 3) - 8) | | TP AWG 20 | TP78 | |

DRAWING TITLE

# AMS TCS

Ram Heaters Thermostats cabling

CARLO GAVAZZI SPACE S.p.A.

| FILE NAME | NEXT ASSY | PARTS LIST NUMBER | REV. |
|---|---|---|---|
| 41-AMS02TCS-200.00.07.xls | 41-AMS02TCS-200.00.00 | 41-AMS02TCS-200.00.07 | / |

*THIS IS AN ELECTRONIC FORM - NO MANUAL ALTERATION*

*ALL RIGHTS RESERVED - COPYRIGHT ACC.TO DIN 34*

## CONNECTION IDENTIFICATION DATA

| FROM HR10 | | | TO | | | | | | | | | WIRE / CABLE INFORMATION | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SIGNAL NAME | HR10/1 | REMARKS | HR10/2 | TH10/1A | TH10/1B | TH10/2A | TH10/2B | | | | REMARKS | POS. n° | CABLE TYPE | TWISTED PAIR | REMARKS |
| *Out 5A +120V* | 1 | 4) - 6) - 8) | 1 | | | | | | | | 4) - 6) | | TP AWG 20 | TP81 | |
| *Out 5A +120V rtn* | 2 | 4) - 6) - 8) | 2 | | | | | | | | 4) - 6) | | TP AWG 20 | TP81 | |
| *Out 5B +120V* | 3 | 4) - 6) - 8) | 3 | | | | | | | | 4) - 6) | | TP AWG 20 | TP82 | |
| *Out 5B +120V rtn* | 4 | 4) - 6) - 8) | 4 | | | | | | | | 4) - 6) | | TP AWG 20 | TP82 | |
| | **HR10/2** | | | | | | | | | | | | | | |
| *Out 5A +120V* | 1 | 4) - 6) | | 1 | | | | | | | 3) - 8) | 6 | TP AWG 20 | TP81 | |
| *Out 5A +120V rtn* | 2 | 4) - 6) | | | | 1 | | | | | 3) - 8) | 6 | TP AWG 20 | TP81 | |
| *Out 5B +120V* | 3 | 4) - 6) | | | 1 | | | | | | 3) - 8) | 6 | TP AWG 20 | TP82 | |
| *Out 5B +120V rtn* | 4 | 4) - 6) | | | | | 1 | | | | 3) - 8) | 6 | TP AWG 20 | TP82 | |

DRAWING TITLE

# AMS TCS

Ram Heaters Thermostats cabling

CARLO GAVAZZI SPACE S.p.A.

| FILE NAME | NEXT ASSY | PARTS LIST NUMBER | REV. |
|---|---|---|---|
| 41-AMS02TCS-200.00.07.xls | 41-AMS02TCS-200.00.00 | 41-AMS02TCS-200.00.07 | / |

*THIS IS AN ELECTRONIC FORM - NO MANUAL ALTERATION*

*ALL RIGHTS RESERVED - COPYRIGHT ACC.TO DIN 34*

## CONNECTION IDENTIFICATION DATA

| FROM HR11 | | | TO | | | | | | | | | WIRE / CABLE INFORMATION | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SIGNAL NAME | HR11 | REMARKS | TH11/1 A | TH11/2 A | TH11/1 B | TH11/2 B | | | | | REMARKS | POS. n° | CABLE TYPE | TWISTED PAIR | REMARKS |
| *Out 5A +120V* | 1 | 4) | 1 | | | | | | | | 3) - 8) | 6 | TP AWG 20 | TP85 | |
| *Out 5A +120V rtn* | 2 | 4) | | 1 | | | | | | | 3) - 8) | 6 | TP AWG 20 | TP85 | |
| *Out 5B +120V* | 3 | 4) | | | 1 | | | | | | 3) - 8) | 6 | TP AWG 20 | TP86 | |
| *Out 5B +120V rtn* | 4 | 4) | | | | 1 | | | | | 3) - 8) | 6 | TP AWG 20 | TP86 | |

*ALL RIGHTS RESERVED - COPYRIGHT ACC.TO DIN 34*

## Legenda

| | |
|---|---|
| **SW** | Single Wire |
| **TP** | Twisted pair |
| **TSP** | Twisted Shielded pair |

## TOOLS

| | | | | |
|---|---|---|---|---|
| *"A"* | **Hand crimping tool** | CL-51 | M22520/01-01 | S/N : 773041 |
| | **Locator** | CL-52 | M22520/01-04 | Red Position |
| | **Selection Position** | 3 | | |
| *"B"* | **Hand crimping tool** | CL-1 | M22520/01-01 | S/N : 55104 |
| | **Locator** | CL-2 | M22520/01-02 | Red Position |
| | **Selection Position** | 4 | | |
| *"C"* | **Hand crimping tool** | CL-49 | M22520/01-01 | S/N : 791348 |
| | **Locator** | CL-2 | M22520/01-02 | Red Position |
| | **Selection Position** | 2 | | |

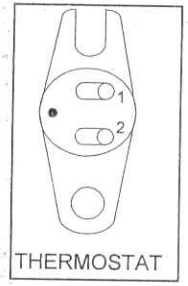
*ALL RIGHTS RESERVED - COPYRIGHT ACC.TO DIN 34*

## Notes

1) CRIMP WIRE TP AWG 20 TO MALE PIN P/N : M39029/58-363 ( OF CONNECTOR ) USING HAND CRIMPING TOOL "A" .

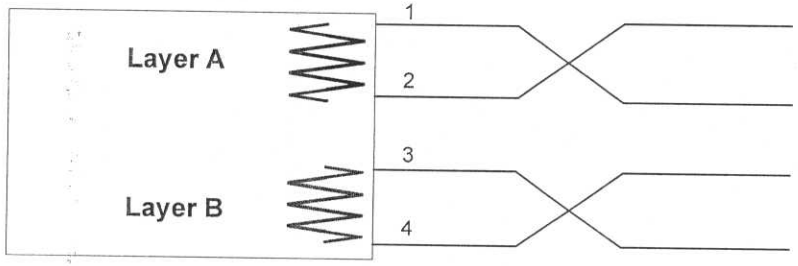
2) CRIMP WIRE TP AWG 20 TO MALE PIN P/N : M39029/1-101 ( OF TERMINAL JUNCTION MODULE ) USING HAND CRIMPING TOOL " B ".

3) FOR CONNECTING THE THERMOSTAT SOLDER THE WIRE AWG 20 TP ACCORDING TO ECSS-Q-70-08A AND PROTECT JUNCTION WITH HEAT-SHRINKABLE INSULATE SLEEVE RT-220.




4) FOR CONNECTING THE HEATER SOLDER THE WIRE ACCORDING TO ECSS-Q-70-08A , USE THE WIRE CONNECT OF HEATER .

**HEATER**

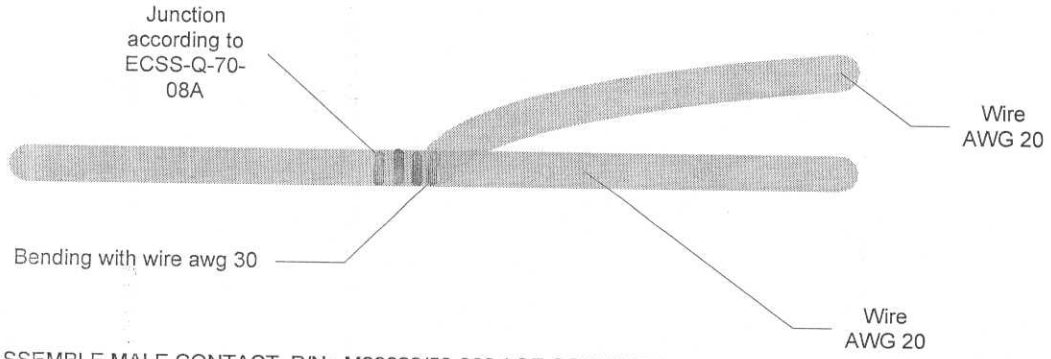



MARKING SIDE

*ALL RIGHTS RESERVED - COPYRIGHT ACC.TO DIN 34*

5) CRIMP WIRE TP AWG 24 TO MALE PIN P/N : M39029/1-101 ( OF TERMINAL JUNCTION MODULE ) USING HAND CRIMPING TOOL " C " AND PROTECT WITH HEAT-SHRINKABLE INSULANT SLEEVE RT-220.

6) FOR CONNECTING THE HEATERS SEE DRAWING, COVER THE SOLDER JOINT WITH HEAT-SHRINKABLE INSULATE SLEEVE RT-220.




7) ASSEMBLE MALE CONTACT P/N : M39029/58-363 ( OF CONNECTOR )

8) MARKER THE WIRE WITH THE NAME OF ITEM END THE NAME OF PIN ( EX. TB1/6A-A/1 )
USE HEAT-SHRINKABLE INSULANT SLEEVE p/n : TMS-SCE-1K-3/16-2.0-9

DRAWING TITLE

# AMS TCS
## Ram Heaters Thermostats cabling
Parts list

CARLO GAVAZZI SPACE S.p.A.

| FILE NAME | NEXT ASSY | PARTS LIST NUMBER | REV. |
|---|---|---|---|
| 41-AMS02TCS-200.00.07.xls | 41-AMS02TCS-200.00.00 | 41-AMS02TCS-200.00.07 | / |

*THIS IS AN ELECTRONIC FORM - NO MANUAL ALTERATION*

*ALL RIGHTS RESERVED - COPYRIGHT ACC.TO DIN 34*

| POS. | DESCRIPTION | SPECIFICATION / PROC. SPEC | SUPPLIER | PART NUMBER / ID. CODE | ISSUE REV. | CGS CODE / MATERIAL | -01 Q.TY | -02 Q.TY | -03 Q.TY | -04 Q.TY | DATA CODE | S/N | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Pin male cicolar connector awg 20 | MIL-C-39029/58 | Amphenol Pcd | M39029/58-363 | | | | | | | | | |
| 2 | Terminal junction module 2x5 contact | MIL-81714-DB1 | Amphenol Pcd | M81714/2-DB1 | | | | | | | | | |
| 3 | Terminal junction module 2x10 contact | MIL-81714-DB1 | Amphenol Pcd | M81714/7-DB1 | | | | | | | | | |
| 4 | Wire awg 20 | ESA/SCC 3901/012 | Raychem | ESA/SCC 3901/012-1116B | | | | | | | | | |