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Marine generator sets

Operator's manual

7 GSC
8 GSAC
8 GTC
10 GTAC
10 GSC
12 GSAC
11 GTC
14 GTAC
14 GSC
17 GSAC
17 GTC
20 GTAC

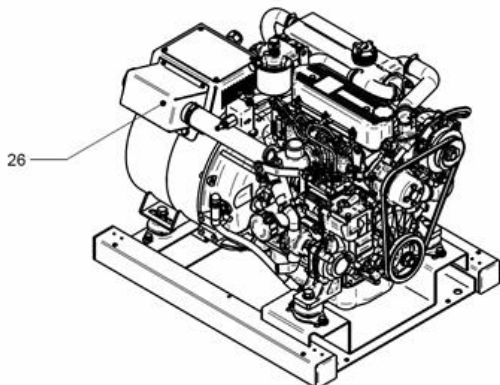
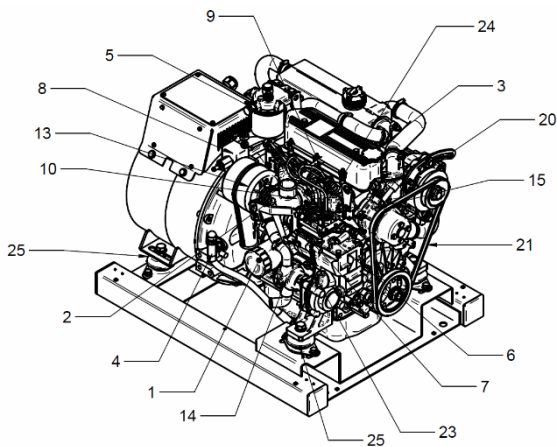
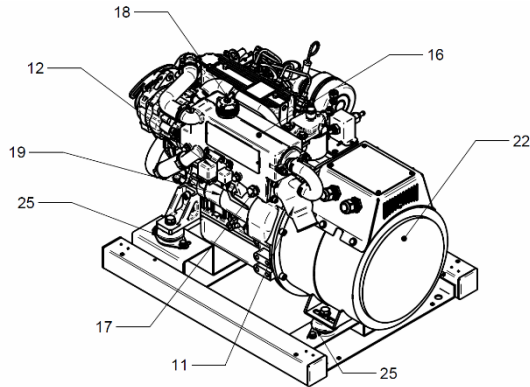
U_GBAV_EN
Revision 7



Genset information

Genset Parts Identification

Gensets: 7GSC / 8 GSCAC / 10 GTAC / 10 GSC / 11 GTC / 12 GSAC

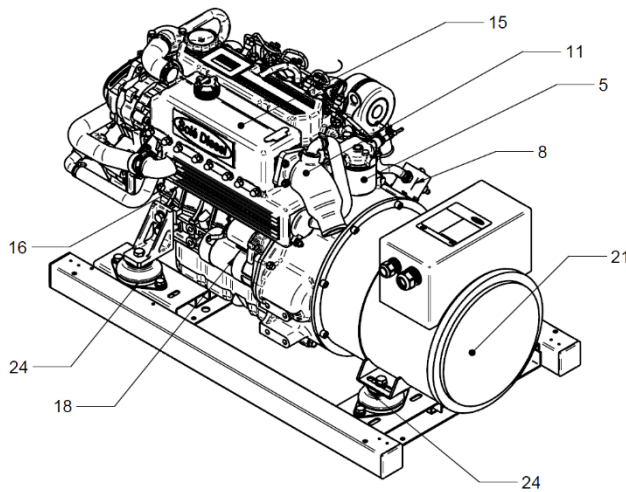
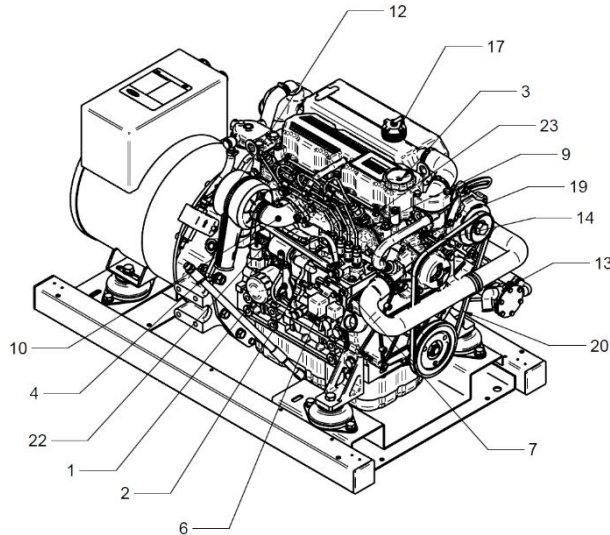


PIECE	ELEMENT
1	Oil filter
2	Oil level stick
3	Oil fill cap
4	Oil drain tube
5	Fuel filter
6	Drain plug
7	Fuel feed pump
8	Electric fuel feed pump 12V
9	Nozzles
10	Air inlet elbow
11	Wet exhaust elbow
12	Relays
13	Air filter
14	Sea water pump
15	Fresh water pump
16	Heat exchanger
17	Coolant drain plug
18	Coolant fill plug
19	Starter
20	Alternator DC
21	Belt
22	CA alternator
23	Stop solenoid
24	Glow plug
25	Anti-vibration mounts
26	Regulator support box ¹

¹ Only for 7 GSC and 8 GSAC gensets

Genset information

Gensets: 14 GSC / 14 GTAC / 17 GASAC / 17 GTC / 20 GTAC



PIECE	ELEMENT
1	Oil filter
2	Oil level stick
3	Oil fill cap
4	Oil drain tube
5	Fuel filter
6	Relays
7	Fuel feed pump
8	Electric fuel feed pump 12V
9	Nozzles
10	Air inlet elbow
11	Wet exhaust elbow
12	Air filter
13	Sea water pump
14	Fresh water pump
15	Heat exchanger
16	Coolant drain plug
17	Coolant fill plug
18	Starter
19	Alternator DC
20	Belt
21	CA alternator
22	Stop solenoid
23	Glow plug
24	Anti-vibration mounts

SCO 10 Panel



Section 6 – SCO 10 PANEL



6.1. Installation

The controller is to be mounted onto the switchboard door. Requested cutout size is 175x115mm. Use the screw holders delivered with the controller to fix the controller into the door as described on the pictures below.



Then, it is necessary to connect male connector (engine installation wire) to female connector (SCO 10).



Kit second panel SCO 10 (ref. 60974600S)

The first step to install the remote SCO 10 is to Connect the communication wire from main SCO 10 to REMOTE SCO 10 as is specified in wiring diagrams. The black wire in REMOTE SCO 10 communication wire end must be connected to earth.

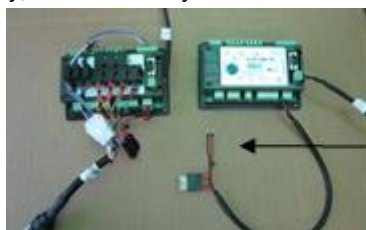


MAIN SCO 10 communication wire end



REMOTE SCO 10 communication wire end

Finally, it is necessary to connect to battery (red wire to positive and black wire to negative).



Connect to battery 12/24V

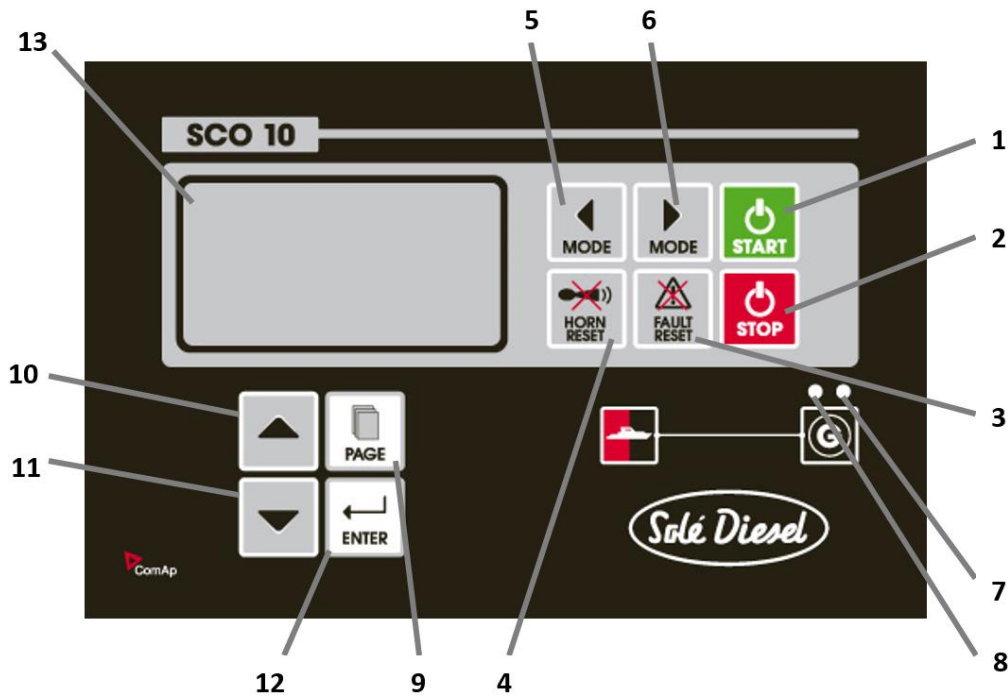
According to the distance required between the main and remote SCO10, the following cable lengths:

Length	12 meters	24 meters	36 meters	60 meters
Reference	60972104	60972105	60972110	60972113

SCO 10 Panel



6.2. Operator interface SCO 10







POSITION	BUTTON	DESCRIPTION
1		START button. Works in MAN mode only. Press this button to initiate the start sequence of the engine.
2		STOP button. Works in MAN mode only. Press this button to initiate the stop sequence of the genset. Repeated pressing or holding the button for more than 2s will cancel current phase of stop sequence (like ramping the power down or cooling) and next phase will continue.
3		FAULT RESET button. Use this button to acknowledge alarms and deactivate the horn output. Inactive alarms will disappear immediately and status of active alarms will be changed to "confirmed" so they will disappear as soon as their reasons dismiss.
4		HORN RESET button. Use this button to deactivate the horn output without acknowledging the alarms.
5		MODE LEFT button. Use this button to change the mode. The button works only if the main screen with the indicator of currently selected mode is displayed. Note: This button will not work if the controller mode is forced by one of the binary inputs Remote OFF, Remote MAN, Remote AUT.
6		MODE RIGHT button. Use this button to change the mode. The button works only if the main screen with the indicator of currently selected mode is displayed. Note: inputs Remote OFF, Remote MAN, Remote AUT.



Genset operator indicators

POSITION	DESCRIPTION
7	Genset failure. Red LED starts flashing when genset failure occurs. After FAULT RESET button is pressed, the light steadies (if an alarm is still active) or turns off (if no alarm is active).
8	Genset voltage OK. Green LED is on if the generator voltage is present and within limits. Note: The limits for the generator voltage and frequency are given by setpoints in the Gener Protect group.

Displays and control button

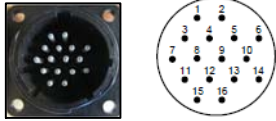
POSITION	BUTTON	DESCRIPTION
9		PAGE button. Use this button to switch over display pages. See <i>Display Screens and Pages Structure</i> section below this table for more details.
10		UP button. Use this button to move up or increase a value.
11		DOWN button. Use this button to move down or decrease a value.
12		ENTER button. Use this button to finish editing a setpoint or moving right in the history page.
13		Graphic B/W display, 128x64 pixels

6.3. Display Screens and Pages Structure

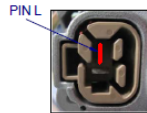
The displayed information is structured into "pages" and "screens". Use PAGE button to switch over the pages.

1. The Measurement page consists of screens which display measured values like voltages, current, oil pressure etc., computed values like genset power, statistic data and the alarm list on the last screen.
2. The Setpoints page contains all setpoints organized in groups and also a special group for entering password.
3. The History log page shows the history log in reverse order, so the last record is displayed first.

DETALLE CONECTOR CPC PORTAMACHOS / DETAIL CONNECTOR CPC



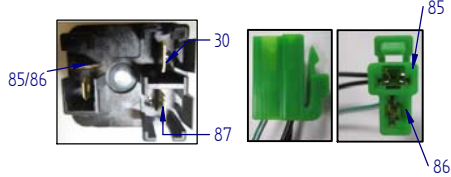
DETALLE PIN L ALTERNADOR / DETAIL PIN L ALTERNATOR



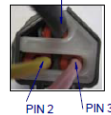
DETALLE RELE DE ARRANQUE / STARTER RELAY



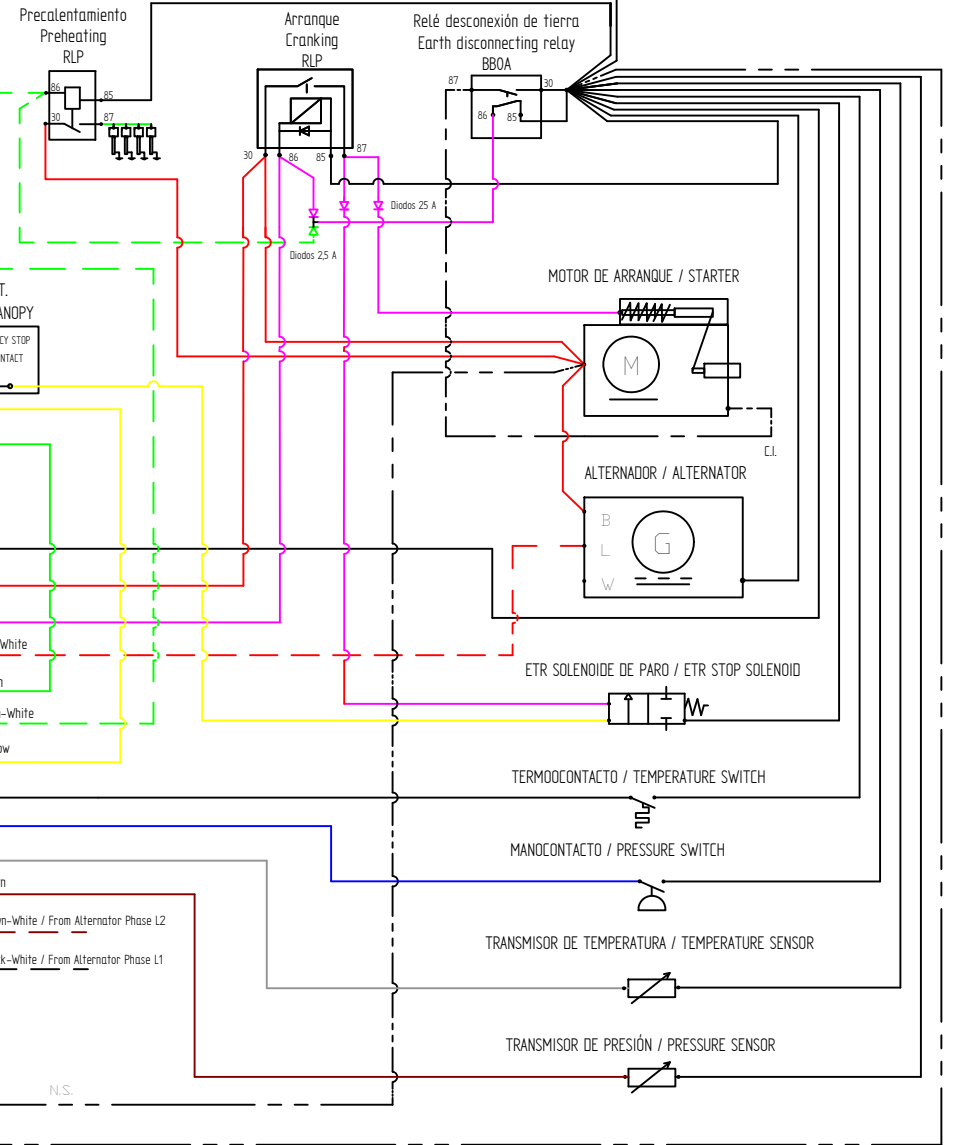
DETALLE RELE BUJIAS PRECALENTAMIENTO / PREHEATING RELAY



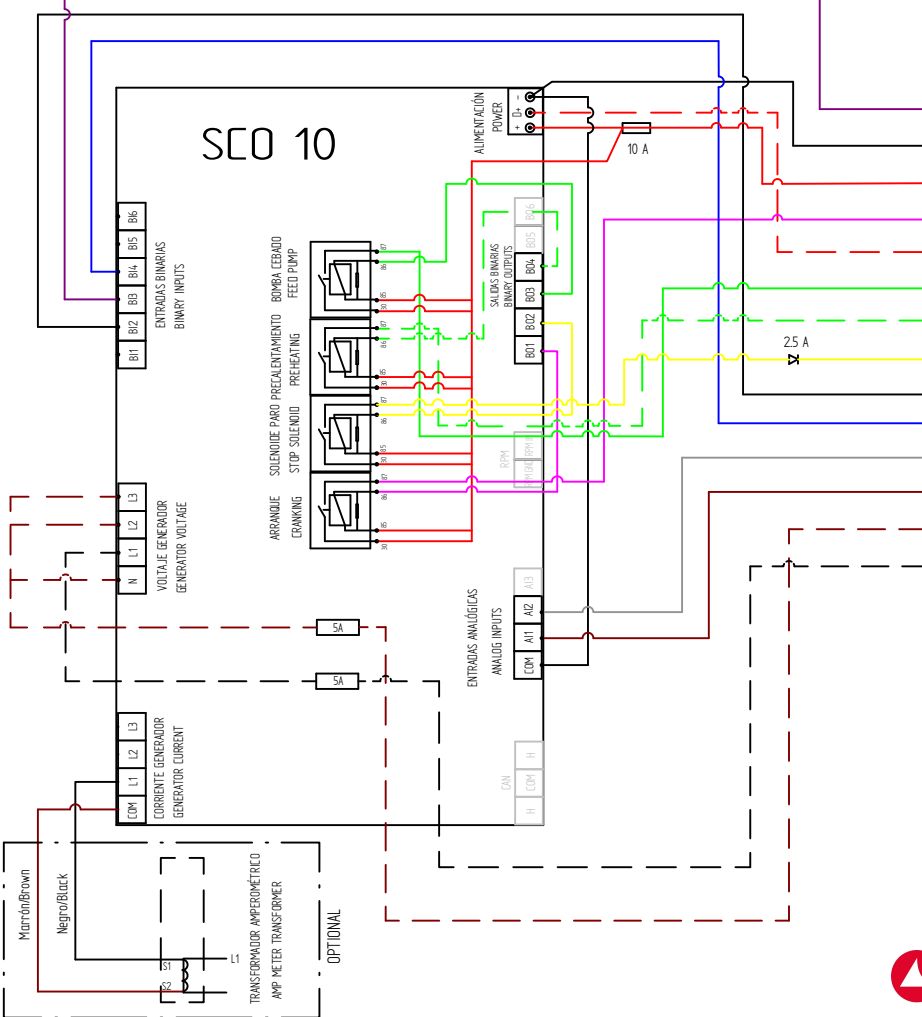
DETALLE CONECTOR SOLENOIDE DE PARO / DETAIL STOP SOLENOID CONNECTOR



BOMBA DE ALIMENTACIÓN DE COMBUSTIBLE / FUEL FEED PUMP



SCU 10



- CPC PIN 2 Negro/Black
- CPC PIN 12 Negro/Black
- CPC PIN 3 Rojo/Red
- CPC PIN 6 Rosa/Pink
- CPC PIN 7 Rojo-Blanco/Red-White
- CPC PIN 1 Verde/Green
- CPC PIN 5 Verde-Blanco/Green-White
- CPC PIN 4 Amarillo/Yellow
- CPC PIN 11 Blanco/White
- CPC PIN 9 Azul/Blue
- CPC PIN 10 Gris/Grey
- CPC PIN 8 Marrón/Brown
- CPC PIN 13 Marrón-White/Brown-White / From Alternator Phase L2
- CPC PIN 16 Negro-Blanco/Black-White / From Alternator Phase L1

LEYENDA / LEGEND:

- N.S.: NO SUMINISTRADO / NOT SUPPLIED
- OPT.: OPCIONAL / OPTIONAL
- C.I.: CABLE INDEPENDIENTE / SEPARATE CABLE

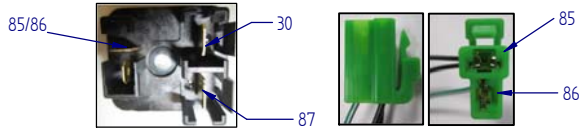
MODELO GRUPO / GENSET MODEL:	[G-8M-3] / [G-15M-3 / 7 GS-GSC / 8 GSA-GSAC] / [10 GS-GSC / 12 GSA-GSAC] / [G-25M-3 / 14 GS-GSC / 17 GSA-GSAC] ISOLATED			
VOLTAGE GENERADOR / GENSET VOLTAGE:	230 V (50 Hz) / 240 V (60 Hz)			
MODELO MOTOR / ENGINE MODEL:	MINI-17 / MINI-26 / MINI-33 / MINI-44			
VOLTAGE MOTOR / ENGINE VOLTAGE:	12 V / 24 V			
DIBUJADO D. ROMARTÍNEZ	VERIFICADO RUBEN D.	FECHA CREACIÓN 27/04/2017	ÚLTIMA REVISIÓN	PÁGINA
		SOLE, S.A.		E1380B02GS_SCU10_ETR
				1 de 1



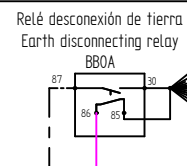
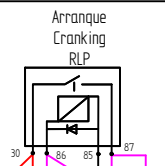
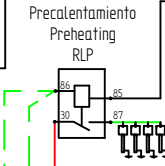
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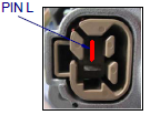
DETALLE RELE BUJIAS PRECALENTAMIENTO / PREHEATING RELAY



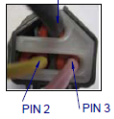
BOMBA DE ALIMENTACIÓN DE COMBUSTIBLE / FUEL FEED PUMP



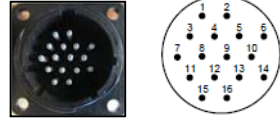
DETALLE PIN L ALTERNADOR / DETAIL PIN L ALTERNATOR



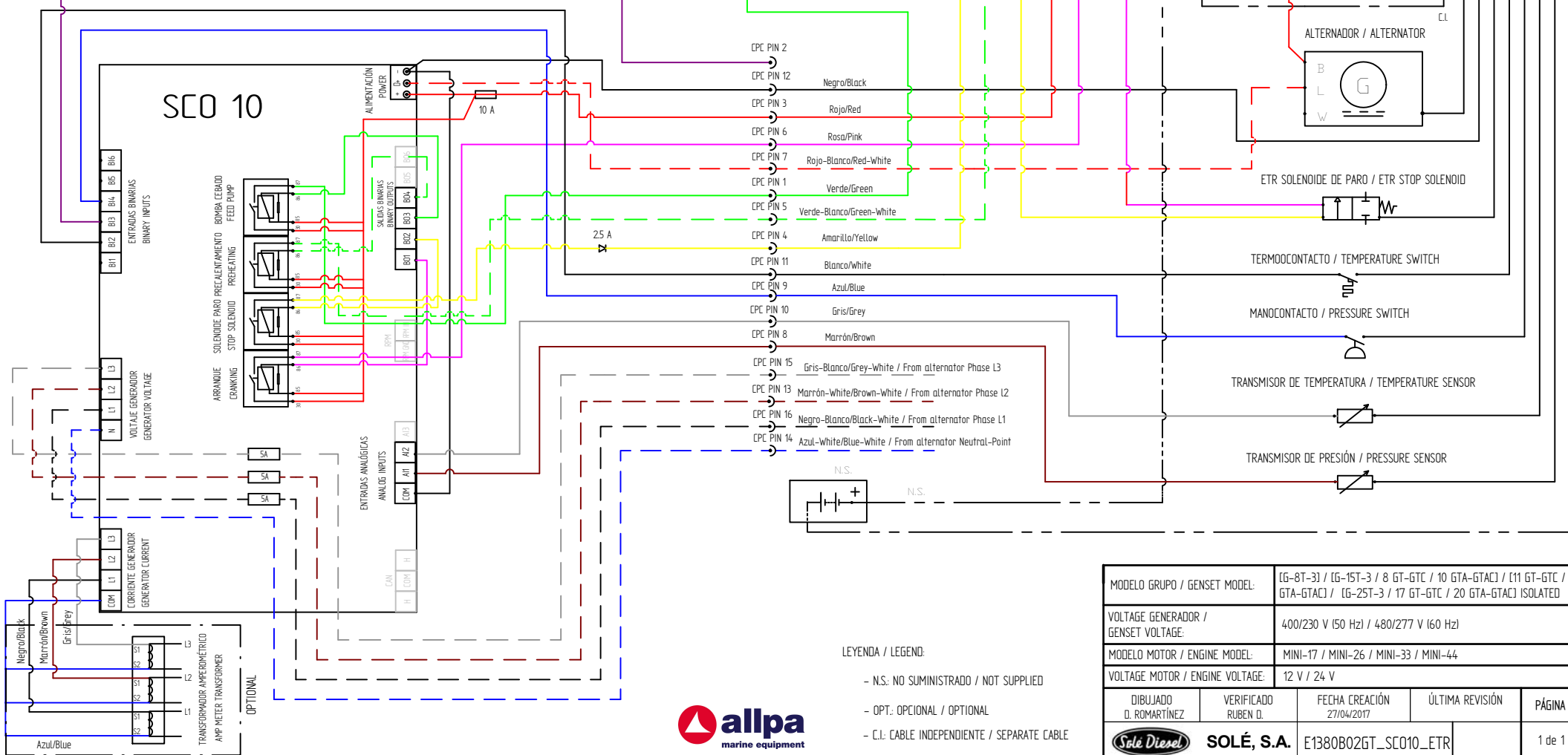
DETALLE CONECTOR SOLENOIDE DE PARO / DETAIL STOP SOLENOID CONNECTOR



DETALLE CONECTOR CPC PORTAMACHOS / DETAIL CONNECTOR CPC

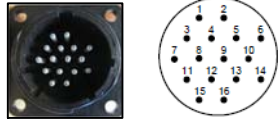


SCO 10

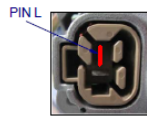


MODELO GRUPO / GENSET MODEL:	[G-8T-3] / [G-15T-3 / 8 GT-GTC / 10 GTA-GTAC] / [11 GT-GTC / 14 GTA-GTAC] / [G-25T-3 / 17 GT-GTC / 20 GTA-GTAC] ISOLATED			
VOLTAGE GENERADOR / GENSET VOLTAGE:	400/230 V (50 Hz) / 480/277 V (60 Hz)			
MODELO MOTOR / ENGINE MODEL:	MINI-17 / MINI-26 / MINI-33 / MINI-44			
VOLTAGE MOTOR / ENGINE VOLTAGE:	12 V / 24 V			
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SOLE, S.A.		E1380B02GT_SCO10_ETR		1 de 1

DETALLE CONECTOR CPC PORTAMACHOS / DETAIL CONNECTOR CPC



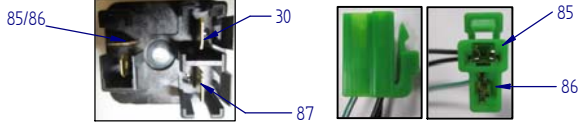
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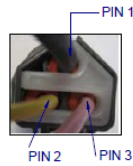
DETALLE RELE DE ARRANQUE / STARTER RELAY



DETALLE RELE BUJIAS PRECALENTAMIENTO / PREHEATING RELAY



DETALLE CONECTOR SOLENOIDE DE PARO / DETAIL STOP SOLENOID CONNECTOR

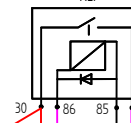


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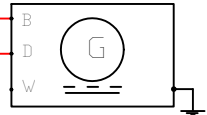


OPT. STD. CANOPY
PARO DE EMERGENCIA
EMERGENCY STOP
N.C. CONTACT

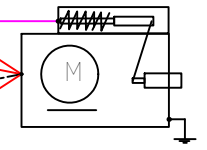
ARRANQUE / CRANKING
RLP



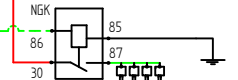
ALTERNADOR / ALTERNATOR



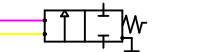
MOTOR DE ARRANQUE / STARTER



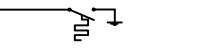
PRECALENTAMIENTO / PREHEATING



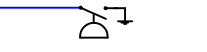
ETR SOLENOIDE DE PARO / ETR STOP SOLENOID



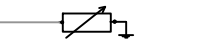
TERMOCOACTIVO / TEMPERATURE SWITCH



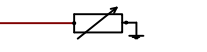
MANOCONTACTO / PRESSURE SWITCH



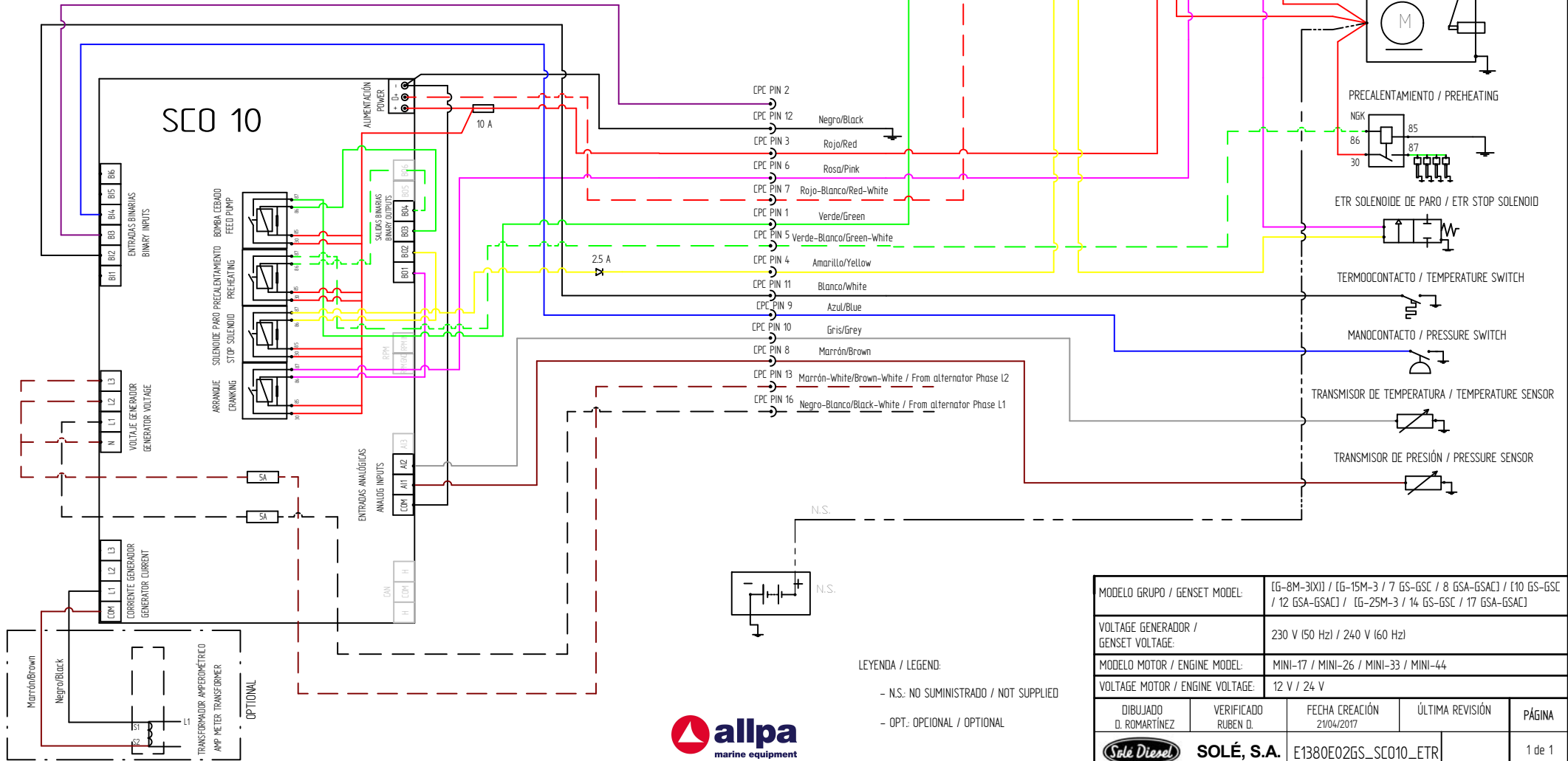
TRANSMISOR DE TEMPERATURA / TEMPERATURE SENSOR



TRANSMISOR DE PRESIÓN / PRESSURE SENSOR

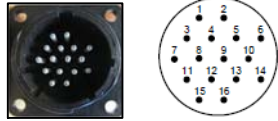


SCO 10

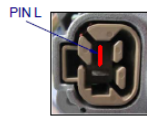


MODELO GRUPO / GENSET MODEL:	[G-8M-3(X)] / [G-15M-3 / 7 GS-GSC / 8 GSA-GSAC] / [10 GS-GSC / 12 GSA-GSAC] / [G-25M-3 / 14 GS-GSC / 17 GSA-GSAC]			
VOLTAGE GENERADOR / GENSET VOLTAGE:	230 V (50 Hz) / 240 V (60 Hz)			
MODELO MOTOR / ENGINE MODEL:	MINI-17 / MINI-26 / MINI-33 / MINI-44			
VOLTAGE MOTOR / ENGINE VOLTAGE:	12 V / 24 V			
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SOLE, S.A.			E1380E02GS_SCO10_ETR	1 de 1

DETALLE CONECTOR CPC PORTAMACHOS / DETAIL CONNECTOR CPC



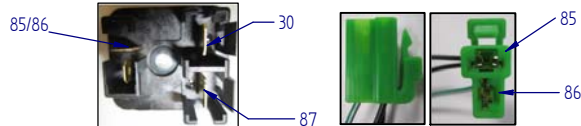
DETALLE PIN L ALTERNADOR / DETAIL PIN L ALTERNATOR



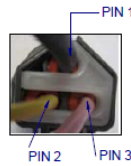
DETALLE RELE DE ARRANQUE / STARTER RELAY



DETALLE RELE BUJIAS PRECALENTAMIENTO / PREHEATING RELAY



DETALLE CONECTOR SOLENOIDE DE PARO / DETAIL STOP SOLENOID CONNECTOR

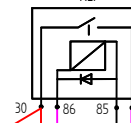


BOMBA DE ALIMENTACIÓN DE COMBUSTIBLE / FUEL FEED PUMP

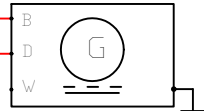


OPT. STD. CANOPY
PARO DE EMERGENCIA
EMERGENCY STOP
N.C. CONTACT

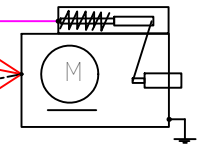
ARRANQUE / CRANKING
RLP



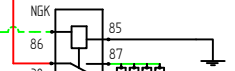
ALTERNADOR / ALTERNATOR



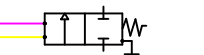
MOTOR DE ARRANQUE / STARTER



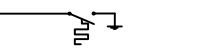
PRECALENTAMIENTO / PREHEATING



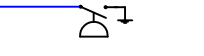
ETR SOLENOIDE DE PARO / ETR STOP SOLENOID



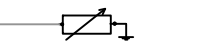
TERMOCONTACTO / TEMPERATURE SWITCH



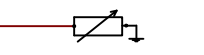
MANOCONTACTO / PRESSURE SWITCH



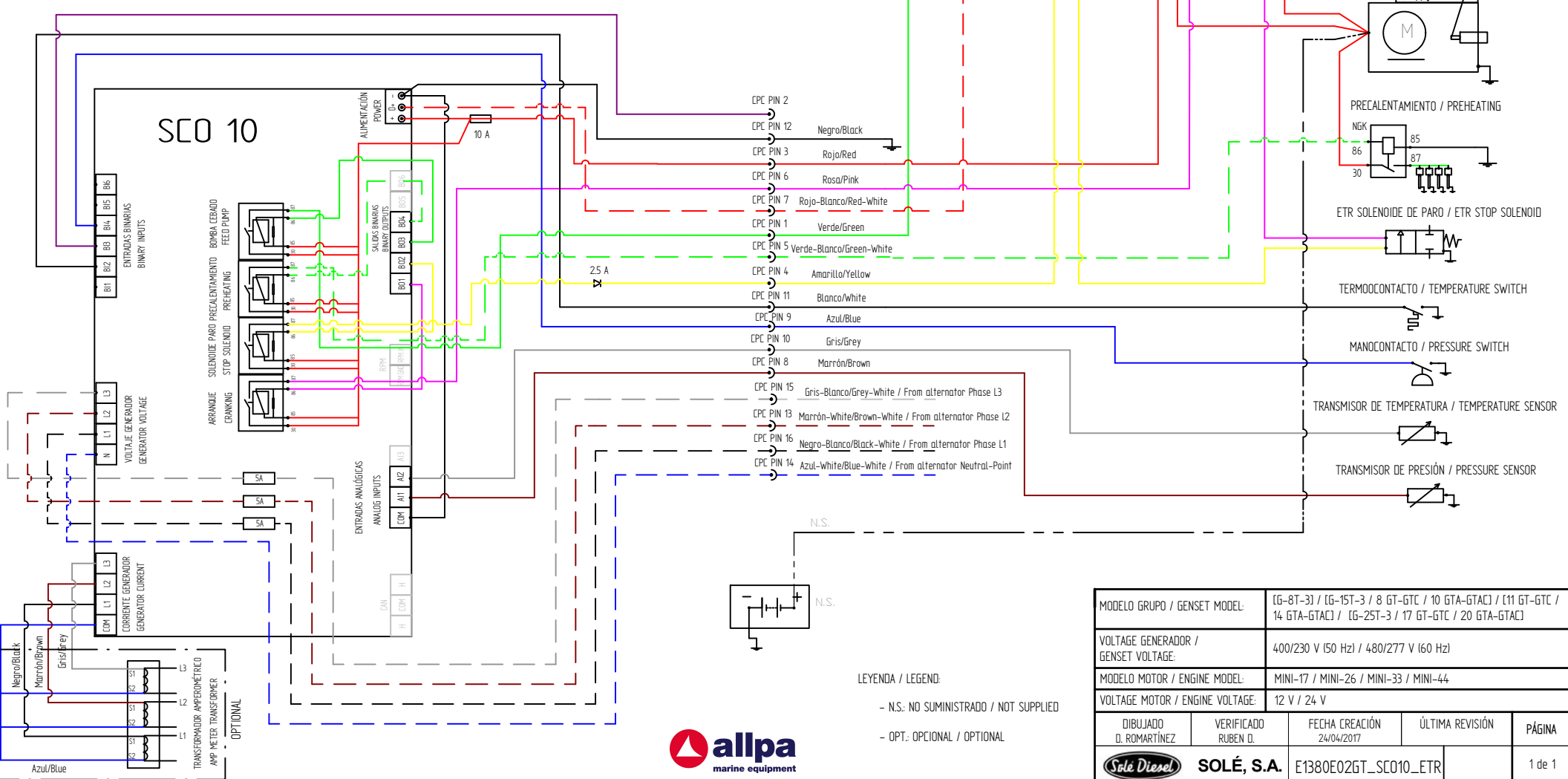
TRANSMISOR DE TEMPERATURA / TEMPERATURE SENSOR



TRANSMISOR DE PRESIÓN / PRESSURE SENSOR



SCO 10



- CPC PIN 2
- CPC PIN 12 Negro/Black
- CPC PIN 3 Rojo/Red
- CPC PIN 6 Rosa/Pink
- CPC PIN 7 Rojo-Blanco/Red-White
- CPC PIN 1 Verde/Green
- CPC PIN 5 Verde-Blanco/Green-White
- CPC PIN 4 Amarillo/Yellow
- CPC PIN 11 Blanco/White
- CPC PIN 9 Azul/Blue
- CPC PIN 10 Gris/Grey
- CPC PIN 8 Marrón/Brown
- CPC PIN 15 Gris-Blanco/Grey-White / From alternator Phase L3
- CPC PIN 13 Marrón-White/Brown-White / From alternator Phase L2
- CPC PIN 16 Negro-Blanco/Black-White / From alternator Phase L1
- CPC PIN 14 Azul-White/Blue-White / From alternator Neutral-Point

N.S.

N.S.

LEYENDA / LEGEND:

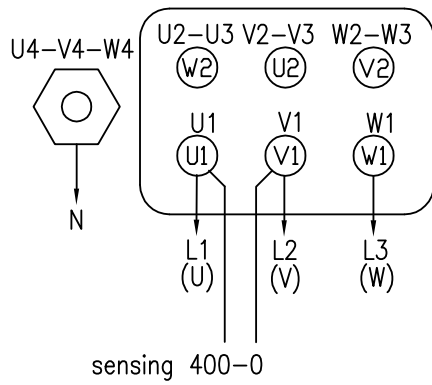
- N.S.: NO SUMINISTRADO / NOT SUPPLIED
- OPT.: OPCIONAL / OPTIONAL



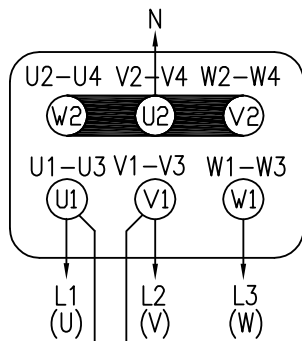
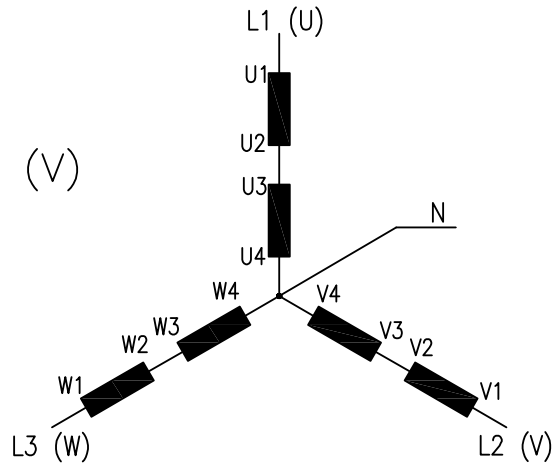
MODELO GRUPO / GENSET MODEL:	[G-8T-3] / [G-15T-3 / 8 GT-GTC / 10 GTA-GTAC] / [11 GT-GTC / 14 GTA-GTAC] / [G-25T-3 / 17 GT-GTC / 20 GTA-GTAC]			
VOLTAGE GENERADOR / GENSET VOLTAGE:	400/230 V (50 Hz) / 480/277 V (60 Hz)			
MODELO MOTOR / ENGINE MODEL:	MINI-17 / MINI-26 / MINI-33 / MINI-44			
VOLTAGE MOTOR / ENGINE VOLTAGE:	12 V / 24 V			
DIBUJADO D. ROMARTÍNEZ	VERIFICADO RUBEN D.	FECHA CREACIÓN 24/04/2017	ÚLTIMA REVISIÓN	PÁGINA
SOLE, S.A.			E1380E02GT_SCO10_ETR	
				1 de 1

COLLEGAMENTO - CONNECTIONS - CONNEXION - ANSCHLUSS - CONEXIÓN

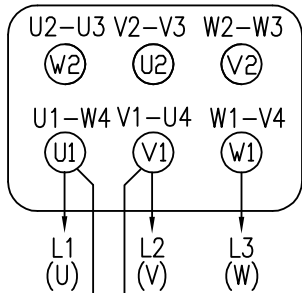
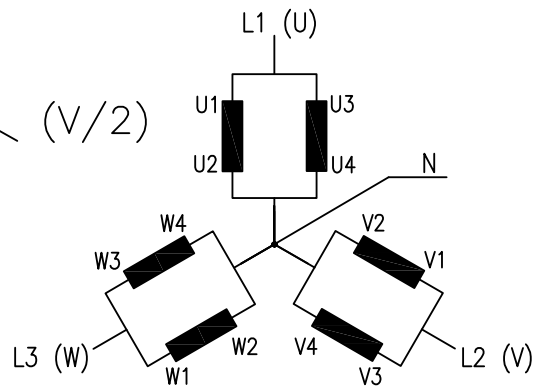
12 morsetti - 12 wires - 12 klemmen - 12 bornes - 12 bornes



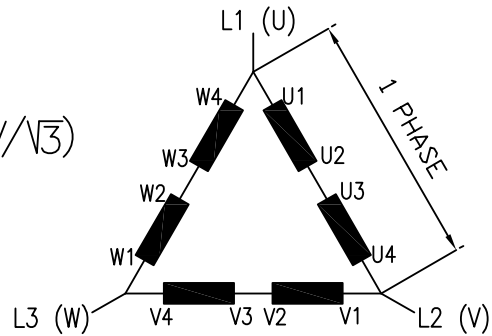
Δ (V)



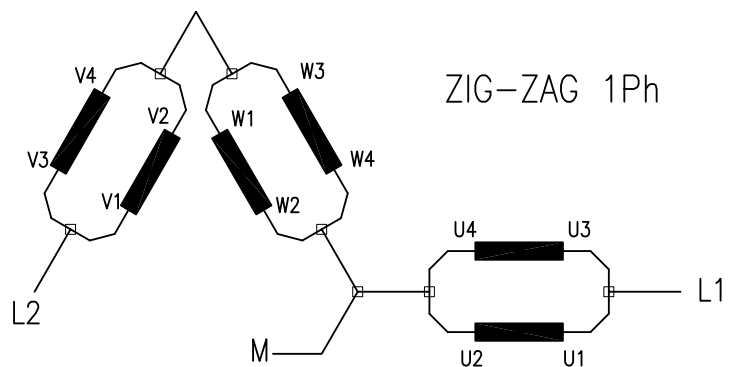
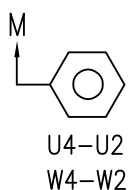
Δ (V/2)



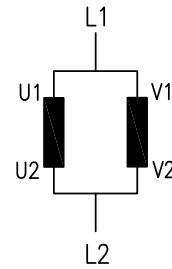
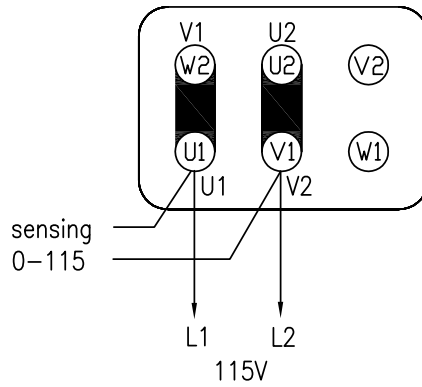
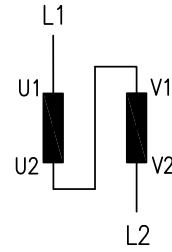
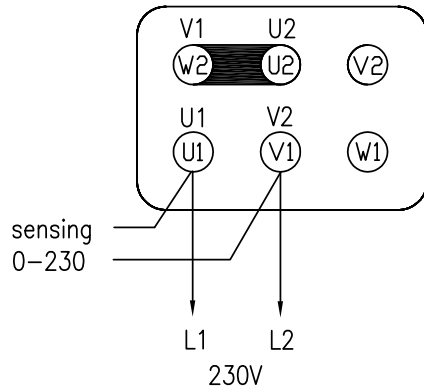
Δ (V/√3)

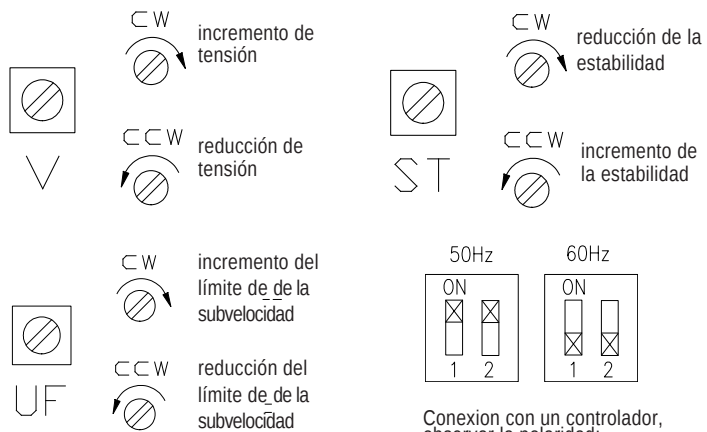
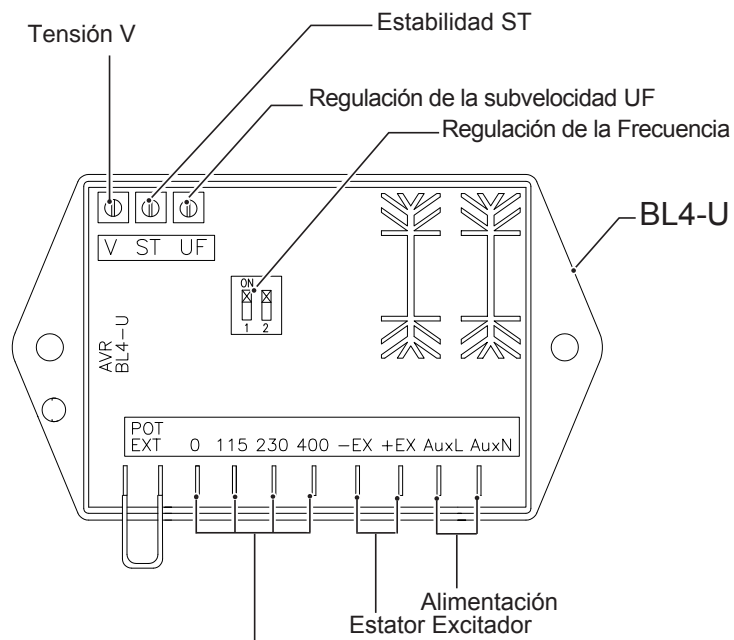


sensing 230-0



COLLEGAMENTO - CONNECTIONS - CONNEXION - ANSCHLUSS - CONEXIÓN
MONOFASE - SINGLE-PHASE - MONOPHASÉ - EINPHASIG - MONOFÁSICO





Conexion con un controlador, observar la polaridad:

