



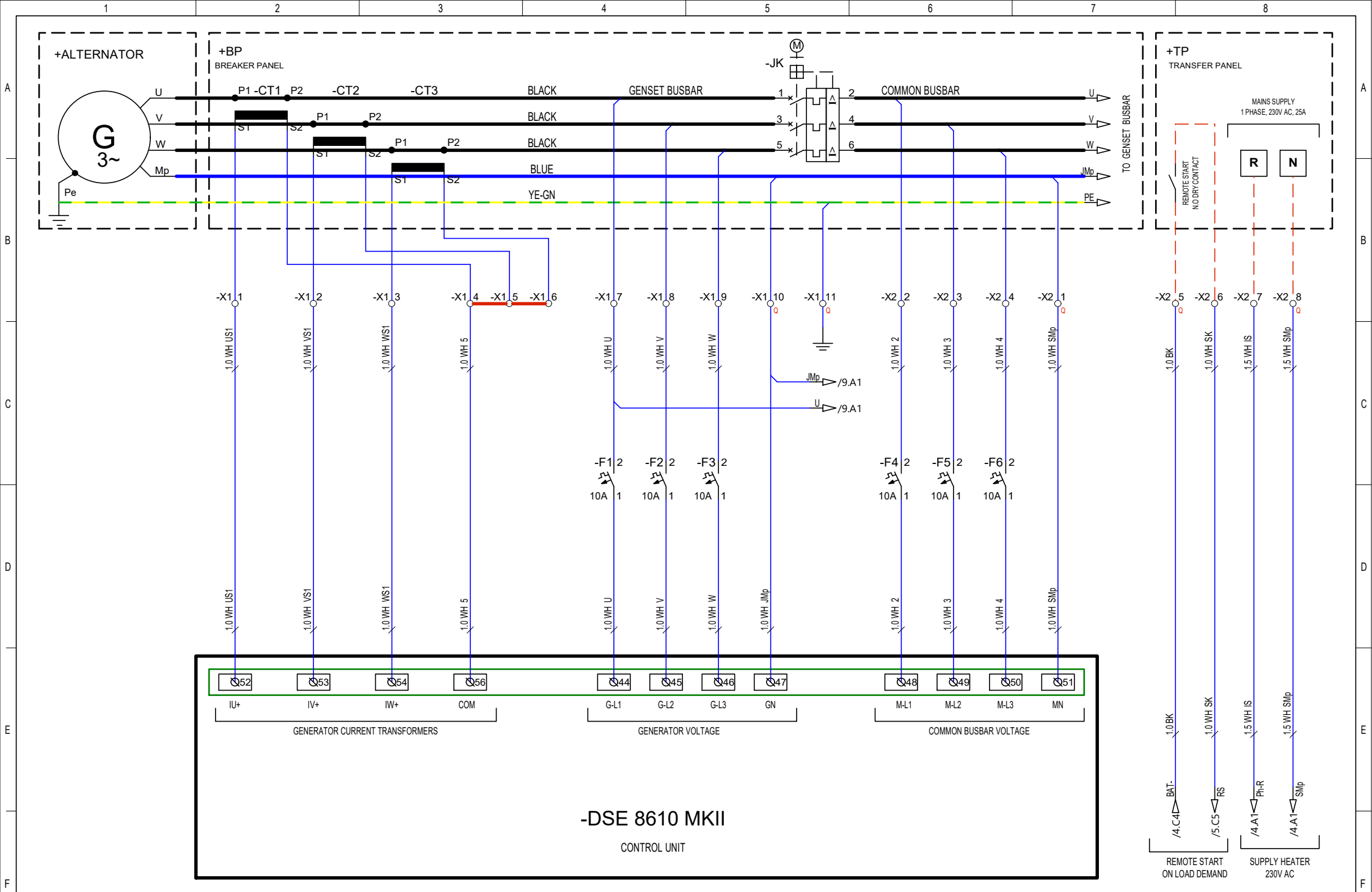
TEKSAN JENERATÖR ELEKTRİK SANAYİ VE TİCARET A.Ş
Yenidoğan Mahallesi, Edebalı Caddesi
No:12 34791 Sancaktepe - İSTANBUL / TURKEY
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Tel: +(90) 444 85 76 / Fax: +(90) 216 312 69 09

CUSTOMER	STANDART
PROJECT NAME	Senkronizasyon Panosu-DSE8610-DOOSAN-158-180-222
DRAWING NO	E3-151003810
REVISION NO	R07(G)
ORDER NO	-

VOLTAGE (VAC)	230/400
CONT. VOLTAGE	24
FREQUENCY (Hz)	50
PHASE	3

DATE	13.10.2020
DRAWN	mesut.matraci
CHECKED	suat.duru
APPROVED	furkan.uzun





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Drawn	mesut.matraci	Customer	
Checked	suat.duru		
Approved	furkan.uzun		

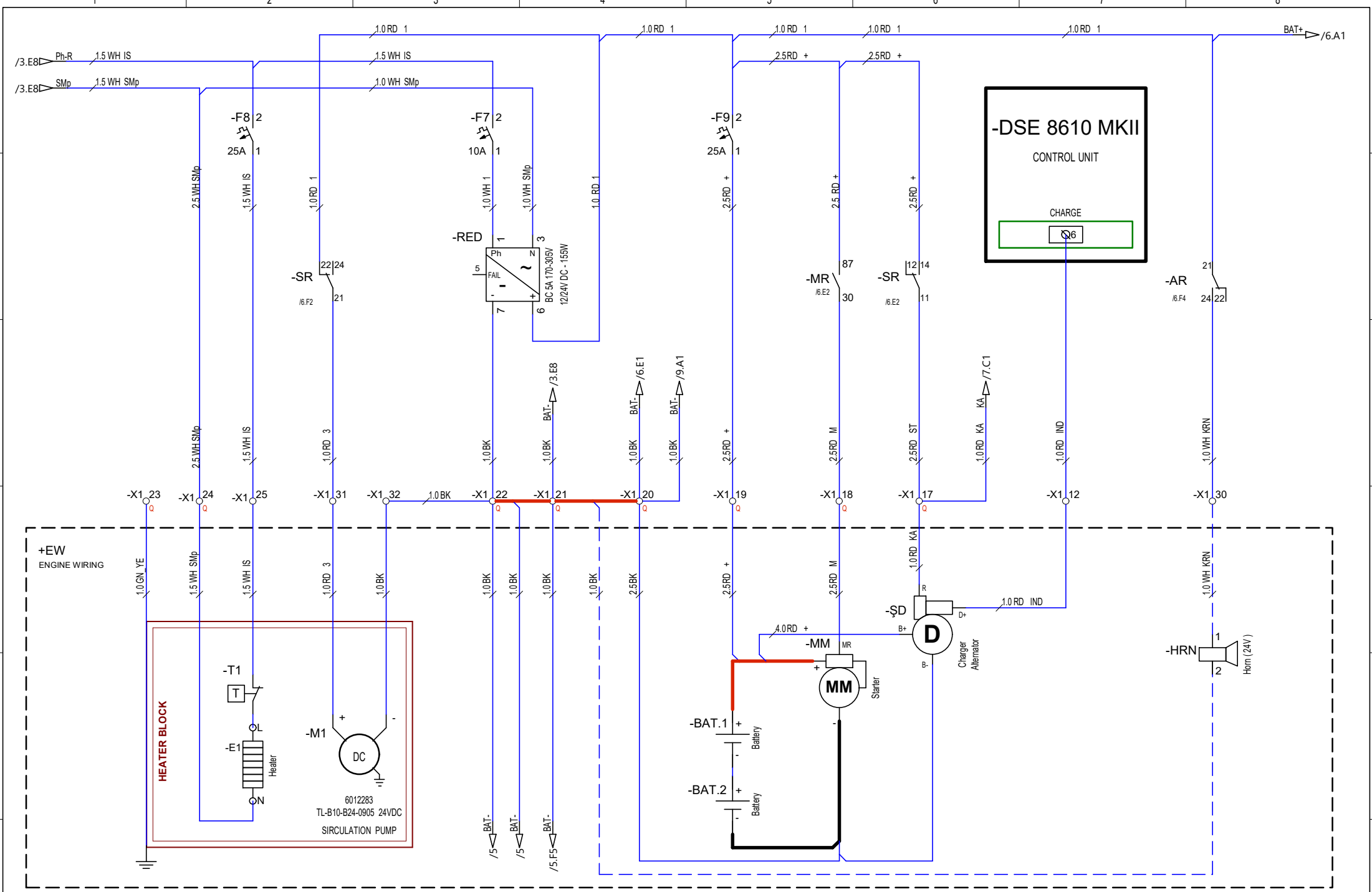
Senkronizasyon Panosu-DSE8610-DOOSAN-158-180-222

STANDART

Order No	-
Drawing No	E3-151003810
Rev No	R07(G)

MEASURING AND HEATER SUPPLY DIAGRAM

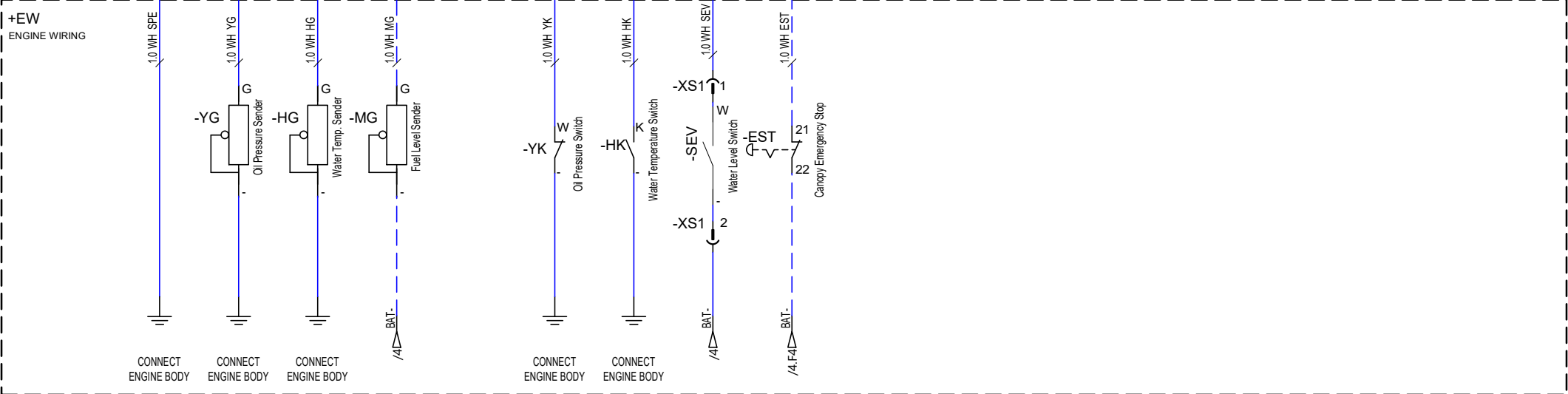
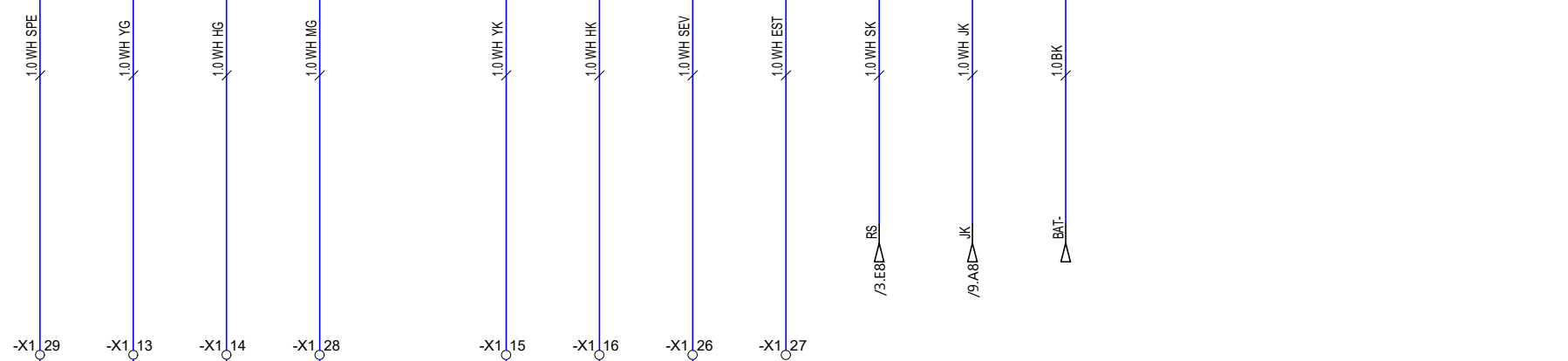
Function	=GEN
Location	+CP
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	STANDART						
	1	2	3	4	5	6	7

-DSE 8610 MKII

CONTROL UNIT



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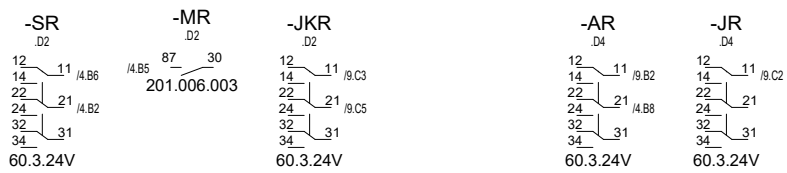
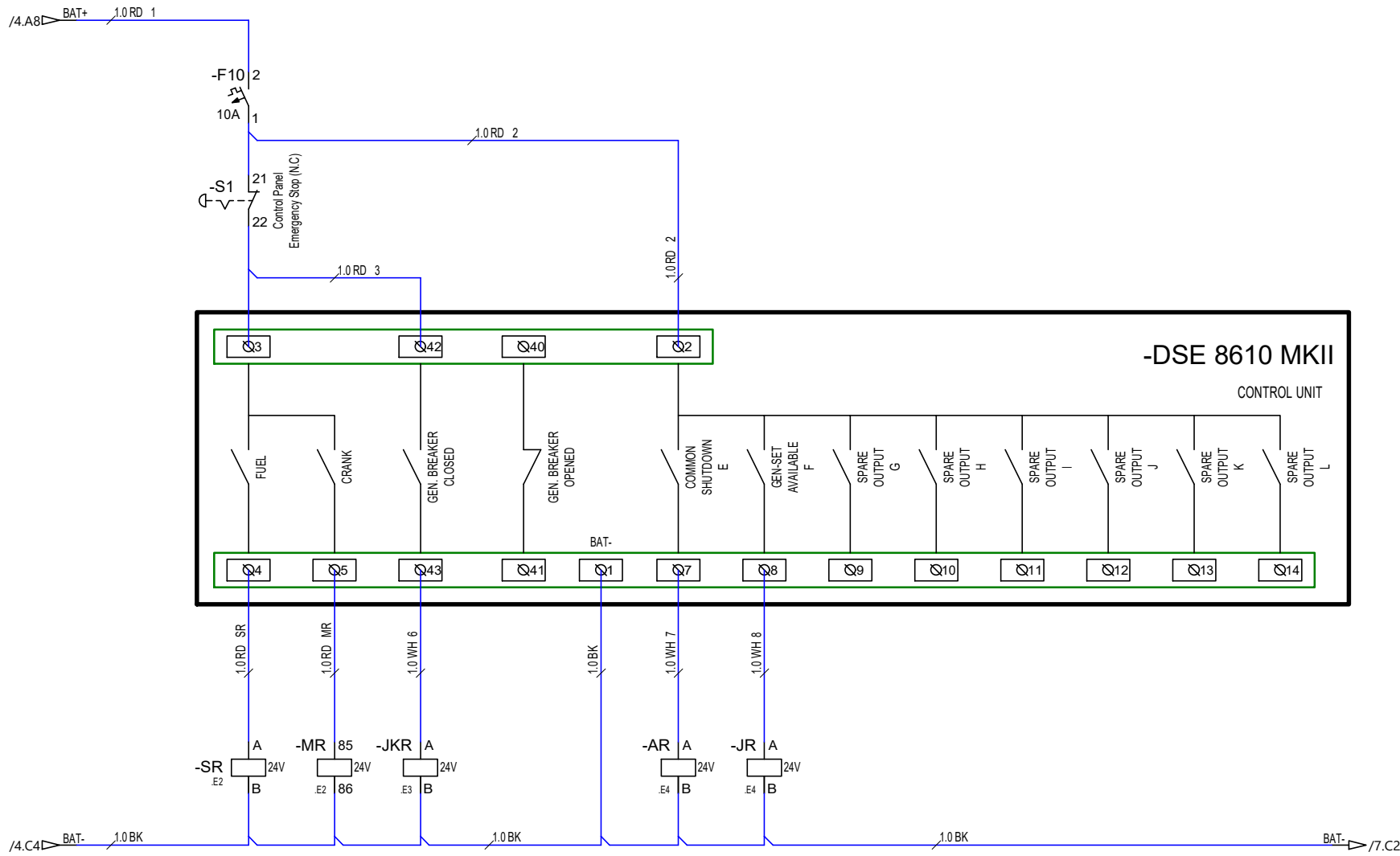
Date	13.10.2020	Project Name	
Drawn	mesut.matraci	Customer	
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Senkronizasyon Panosu-DSE8610-DOOSAN-158-180-222

STANDART

Order No	-
Drawing No	E3-151003810
Rev No	R07(G)

Page Description		Function	=GEN
INPUT DIAGRAM		Location	+CP
		Page	5 / 14



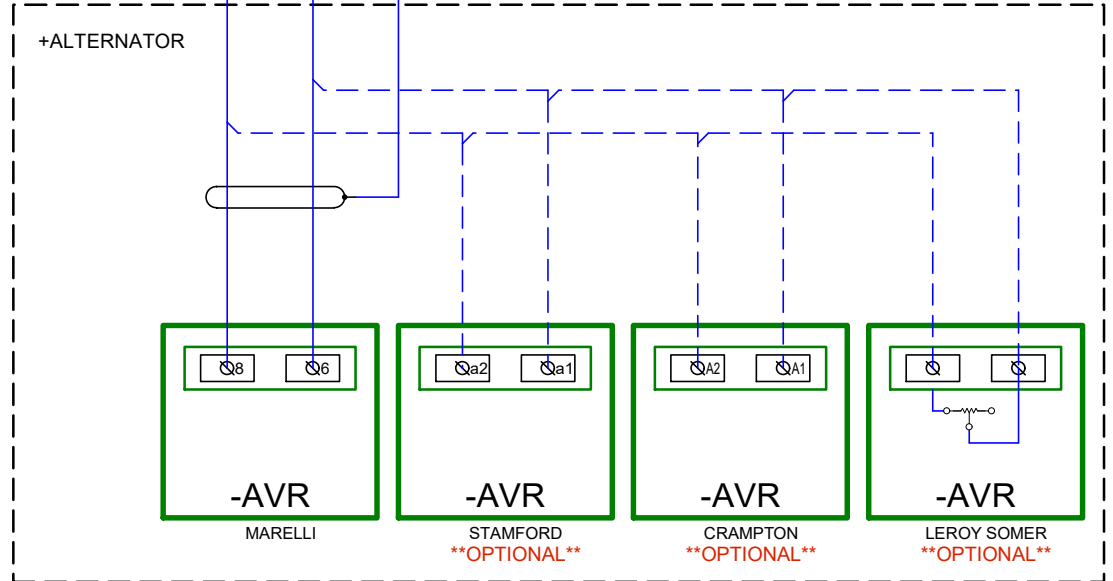
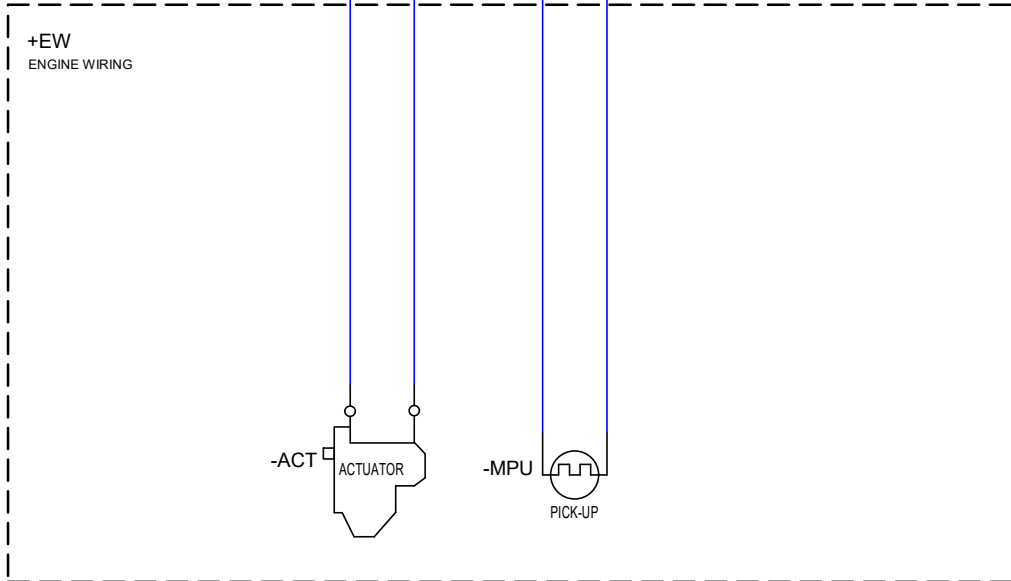
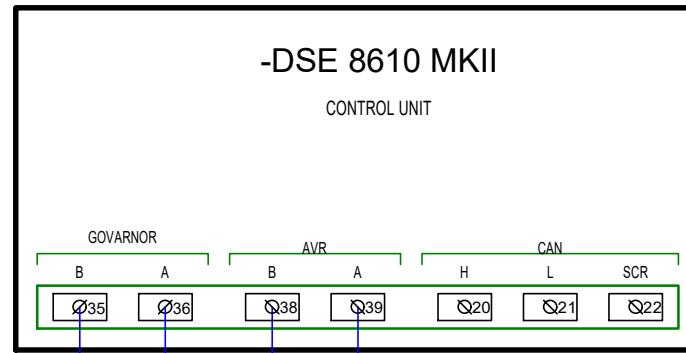
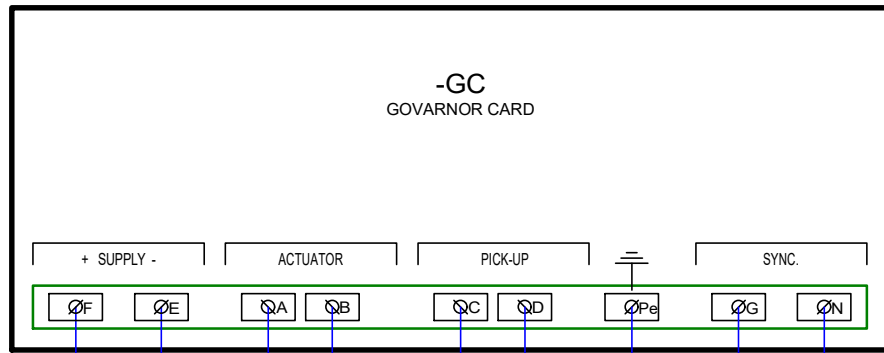
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STANDART

Order No	-	Page Description	OUTPUT DIAGRAM
Drawing No	E3-151003810		
Rev No	R07(G)		

Function	=GEN
Location	+CP
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1.0 RD KA
1.0 BK
1.5 RD BK
1.5 BN
1.0 BK
1.0 YE
1.0 BROWN
1.0 WHITE
1.0 WHITE
1.0 BROWN
1.0 WHITE
1.0 BROWN

KA
BAT-

1.0 GN
1.5 GN

-X3 1
-X3 2
-X3 3



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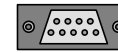
STANDART

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Page Description
GOVERNOR and AVR DIAGRAM

Function	=GEN
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-DSE 8610 MKII
CONTROL UNIT



RS 232



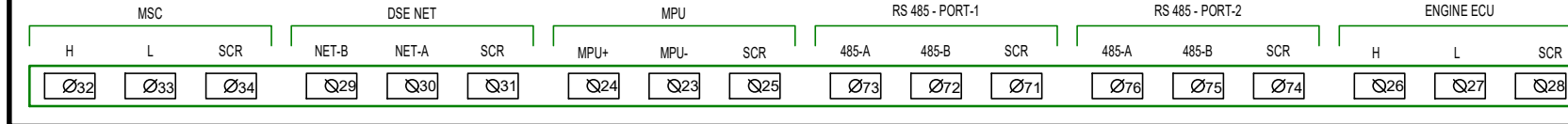
USB
PROGRAMING
PORT



USB HOST



ETHERNET



NOT1 : THE OTHER 8610 AND 8660
MSC CONNECTIONS MAX. 250 METERS
120 OHM SHIELDED CABLE

NOTE2 : THE FIRST AND LAST UNITS MSC
MUST BE FITTED WITH A120 OHM
RESISTOR ACROSS H AND L



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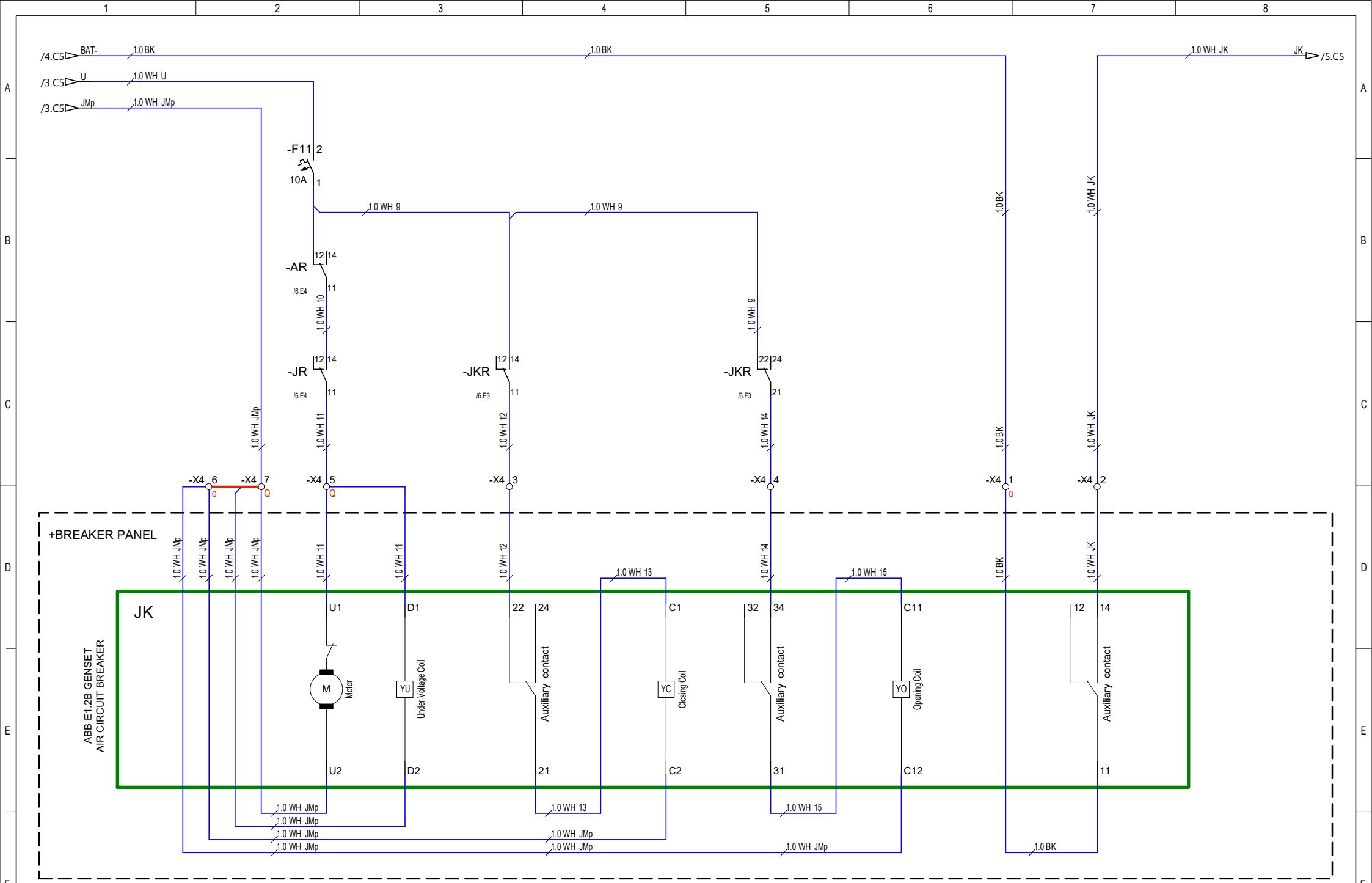
Senkronizasyon Panosu-DSE8610-DOOSAN-158-180-222

STANDART

Order No	-
Drawing No	E3-151003810
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Page Description
DEVICE COMMUNICATION DIAGRAM

Function	=GEN
Location	+CP
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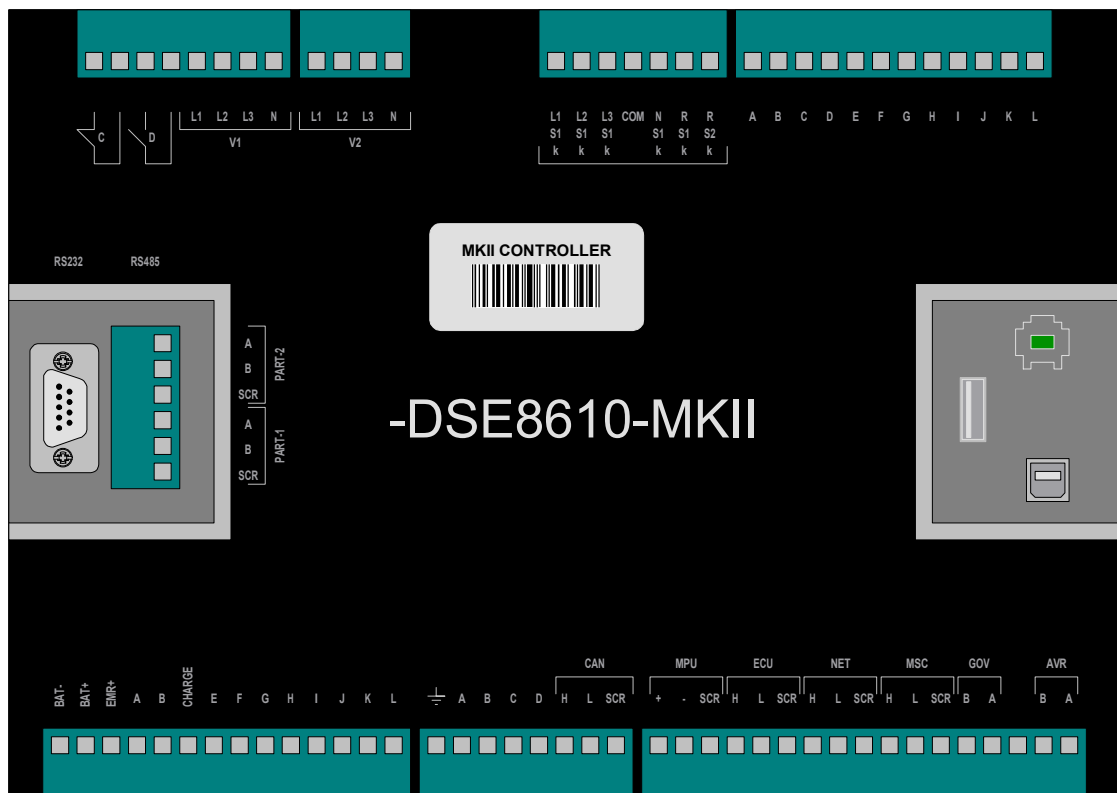
Date	13.10.2020	Project Name	Senkronizasyon Panosu-DSE8610-DOOSAN-158-180-222
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Checked	suat.duru		
Approved	furkan.uzun		

STANDART

Order No	-
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Rev No	R07(G)

Page Description	GEN-SET BREAKER CONTROL DIAGRAM	Function	=GEN
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GENSET CONTROL UNIT



THIS PROJECT COMMON FOR BELOW WRITTEN BREAKERS

MODEL	DESCRIPTION
ABB / E1.2B	800A / 3/4 POLE
ABB / E1.2B	1000A / 3/4 POLE
ABB / E1.2B	1250A / 3/4 POLE

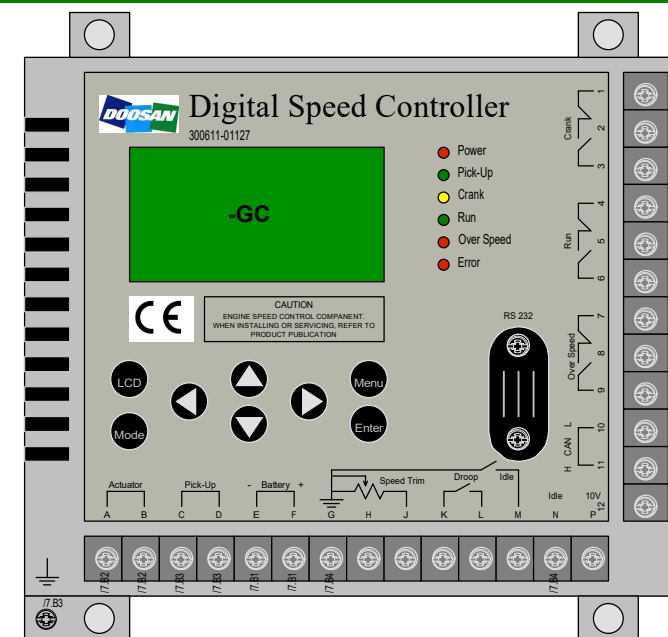
Led alarm list

- Low Oil Pressure
- High Temperature
- Low Coolant Level
- Fail to start

THIS PROJECT COMMON FOR BELOW WRITTEN ENGINES

MODEL / BRAND	HEATER	PIECE	WATT
P158LE-1 / DOOSAN	BS2000	1	2000
P158LE / DOOSAN	BS2000	1	2000
P158LE-S / DOOSAN	BS2000	1	2000
DP158LC / DOOSAN	BS2000	1	2000
DP158LD / DOOSAN	BS2000	1	2000
P180LE / DOOSAN	BS2000	1	2000
DP180LA / DOOSAN	BS2000	1	2000
DP180LB / DOOSAN	BS2000	1	2000
P222LE / DOOSAN	BS2000	1	2000
P222LE-II / DOOSAN	BS2000	1	2000
DP222LB / DOOSAN	BS2000	1	2000
DP222LC / DOOSAN	BS2000	1	2000

GOVARNOR



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Senkronizasyon Panosu-DSE8610-DOOSAN-158-180-222

STANDART

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DEVICE INFORMATION PAGE

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bill of material

Higher Level Assignment:

Location designation:

Pos.	No.	Article Number	Description	manufacturer	Device designation
1	1		E1.2B ACB	ABB	=GEN+BP-JK
2	1	6001079	E1.2B ACB UVR 1SDA073700R1	ABB	=GEN+BREAKER PANEL-YU1
3	1	6001087	E1.2B ACB Closing Coil 1SDA073687R1	ABB	=GEN+BREAKER PANEL-YC1
4	1	6001134	E1.2B ACB Motor Mechanism 1SDA073711R1	ABB	=GEN+BREAKER PANEL-M1
5	4	6001919	60.3.24V / Aux relay, 24V DC, 10A, 3 NO/	WEBN	=GEN+CP-AR, =GEN+CP-JKR, =GEN+CP-JR, =GEN+CP-SR
6	4	6001929	Relay Socket 11 Pin	WEBN	=GEN+CP-RX1, =GEN+CP-RX2, =GEN+CP-RX3, =GEN+CP-RX4
7	2	6002227	LIYCY 2x1mm ² cable	OEM	-W85, -W86
8	2	6002404	(1.0 YE-GN) 1 mm ² Yellow- Green NYAF C	OEM	-W1, -W33
9	14	6002406	(1.0 BK) 1mm ² Black NYAF Cable	OEM	-W2, -W3, -W7, -W21, -W34, -W35, -W36, -W41, -W42, -W73, -W78, -W79, -W101, -W111
10	1	6002456	(2.5 BK) 2.5 mm ² Black NYAF Cable	OEM	-W37
11	5	6002685	KD4; End bracket	Klemsan	=GEN+CP-A17, =GEN+CP-A23, =GEN+CP-A24, =GEN+CP-A25, =GEN+CP-A26
12	33	6002694	PYK 2.5 GR, Terminal, Spring con., GREY	Klemsan	=GEN+CP-X1(22), =GEN+CP-X2(5), =GEN+CP-X3(3), =GEN+CP-X4(3)
13	7	6002697	PYK 2.5C GR; Terminal, Spring con., Grey	Klemsan	=GEN+CP-X1(2), =GEN+CP-X2(2), =GEN+CP-X4(3)
14	3	6002698	PYK 2.5C RD, Terminal, Spring con. Red Q	Klemsan	=GEN+CP-X1(3)
15	5	6002699	PYK 2.5C BK, Terminal, Spring con. Black	Klemsan	=GEN+CP-X1(3), =GEN+CP-X2, =GEN+CP-X4
16	2	6002705	NPP/PYK 2.5, End and intermediate plate,	Klemsan	=GEN+CP-U93, =GEN+CP-U98
17	7	6002707	NPP/PYK 2.5C, End and intermediate plate	Klemsan	=GEN+CP-U91, =GEN+CP-U92, =GEN+CP-U94, =GEN+CP-U95, =GEN+CP-U96, =GEN+CP-U99, =GEN+CP-U100
18	1	6002890	Emergency Stop Touch Guard	KAYIKET	=GEN+CP-A22
19	1	6005606	E1.2B ACB Opening Coil 1SDA073674R1	ABB	=GEN+BREAKER PANEL-YO1
20	2	6006062	PYK 2.5CT, Terminal, Spring con. Yellow-	Klemsan	=GEN+CP-X1(2)
21	1	6007664	DSE 8610 MKII / Generator Control Unit	DEEPSEA	=GEN+CP-DSE8610MKII
22	9	6011540	B10/1P / 10A	ABB	=GEN+CP-F1, =GEN+CP-F2, =GEN+CP-F3, =GEN+CP-F4, =GEN+CP-F5, =GEN+CP-F6, =GEN+CP-F7, =GEN+CP-F10, =GEN+CP-F11



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Senkronizasyon Panosu-DSE8610-DOOSAN-158-180-222

STANDART

Order No	-
Drawing No	E3-151003810
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Page Description

BILL OF MATERIAL

Function	=GEN
Location	+CP
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bill of material

Higher Level Assignment:

Location designation:

Pos.	No.	Article Number	Description	manufacturer	Device designation
23	2	6011541	B25/1P / 25A	ABB	=GEN+CP-F8, =GEN+CP-F9
24	1	6009759	201.006.003 / Power relay, 24V, 70A	ELO	=GEN+CP-MR
25	2	6012107	Emergency Stop Button N.C Contact, 250V	EMAS	=GEN+CP-S1., =GEN+EW-EST.
26	1	6013752	Battery Charger, BC-5A 170-305V, 12/24V-	DATAKOM	=GEN+CP-RED
27	1	7033249	(1.0 WH US1) 1mm ² White-US1 NYAF Cable	OEM	-W8
28	1	7033251	(1.0 WH VS1) 1mm ² White-VS1 NYAF Cable	OEM	-W9
29	1	7033253	(1.0 WH WS1) 1mm ² White-WS1 NYAF Cable	OEM	-W10
30	6	7033255	(1.0 WH JMP) 1mm ² White-JMP NYAF Cable	OEM	-W28, -W96, -W97, -W98, -W99, -W100
31	2	7033256	(1.0 WH SMP) 1mm ² White-SMP NYAF Cable	OEM	-W29, -W113
32	2	7033257	(1.0 RD IND) 1mm ² Red_IND NYAF Cable	OEM	-W49, -W50
33	2	7033258	(1.0 RD KA) 1mm ² Red_KA NYAF Cable	OEM	-W47, -W48
34	1	7033259	(1.0 RD MR) 1mm ² Red_MR NYAF Cable	OEM	-W76
35	1	7033260	(1.0 RD SR) 1mm ² Red_SR NYAF Cable	OEM	-W77
36	2	7033261	(1.5 WH SMP) 1,5mm ² White-SMP 1,5 NYAF	OEM	-W20, -W107
37	4	7033262	(1.5 WH IS) 1,5mm ² White-IS1 1,5 NYAF	OEM	-W19, -W30, -W31, -W32
38	2	7033263	(1.0 WH U) 1mm ² White-U NYAF Cable	OEM	-W22, -W23
39	2	7033264	(1.0 WH V) 1mm ² White-V NYAF Cable	OEM	-W24, -W25
40	2	7033265	(1.0 WH W) 1mm ² White-W NYAF Cable	OEM	-W26, -W27
41	2	7033269	(1.0 WH JK) 1mm ² White-JK NYAF Cable	OEM	-W72, -W106
42	2	7033270	(1.0 WH HG) 1mm ² White-HG NYAF Cable	OEM	-W60, -W61
43	2	7033271	(1.0 WH HK) 1mm ² White-HK NYAF Cable	OEM	-W66, -W67
44	2	7033272	(1.0 WH YG) 1mm ² White-YG NYAF Cable	OEM	-W58, -W59
45	2	7033273	(1.0 WH YK) 1mm ² White-YK NYAF Cable	OEM	-W64, -W65
46	2	7033274	(1.0 WH MG) 1mm ² White-MG NYAF Cable	OEM	-W62, -W63
47	2	7033275	(1.0 WH SEV) 1mm ² White-SEV NYAF Cable	OEM	-W68, -W69
48	2	7033276	(1.0 WH EST) 1mm ² White-EST NYAF Cable	OEM	-W70, -W71



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Page Description

BILL OF MATERIAL

Function	=GEN
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bill of material

Higher Level Assignment:

Location designation:

Pos.	No.	Article Number	Description	manufacturer	Device designation
49	2	7033277	(2.5 RD M) 2,5mm² Red_M NYAF Cable	OEM	-W51, -W52
50	1	7033278	(2.5 RD ST) 2,5mm² Red_ST NYAF Cable	OEM	-W53
51	4	7033280	(2.5 RD +) 2,5mm² Red+ NYAF Cable	OEM	-W38, -W40, -W45, -W46
52	1	7033281	(4.0 RD +) 4mm² Red+ NYAF Cable	OEM	-W39
53	2	7033282	(1.0 WH KRN) 1mm² White-KRN NYAF Cable	OEM	-W54, -W55
54	2	7033283	(1.0 WH SPE) 1mm² White-SPE NYAF Cable	OEM	-W56, -W57
55	1	7033284	(1.0 WH 1) 1mm² White-1 NYAF Cable	OEM	-W112
56	2	7033285	(1.0 WH 2) 1mm² White-2 NYAF Cable	OEM	-W12, -W13
57	2	7033286	(1.0 WH 3) 1mm² White-3 NYAF Cable	OEM	-W14, -W15
58	2	7033287	(1.0 WH 4) 1mm² White-4 NYAF Cable	OEM	-W16, -W17
59	1	7033288	(1.0 WH 5) 1mm² White-5 NYAF Cable	OEM	-W11
60	1	7033289	(1.0 WH 6) 1mm² White-6 NYAF Cable	OEM	-W80
61	1	7033290	(1.0 WH 7) 1mm² White-7 NYAF Cable	OEM	-W81
62	1	7033291	(1.0 WH 8) 1mm² White-8 NYAF Cable	OEM	-W82
63	2	7033292	(1.0 WH 9) 1mm² White-9 NYAF Cable	OEM	-W87, -W88
64	1	7033293	(1.0 WH 10) 1mm² White-10 NYAF Cable	OEM	-W89
65	4	7033304	(1.0 WH 11) 1mm² White-11 NYAF Cable	OEM	-W90, -W91, -W102, -W103
66	2	7033305	(1.0 WH 12) 1mm² White-12 NYAF Cable	OEM	-W92, -W104
67	1	7033306	(1.0 WH 13) 1mm² White-13 NYAF Cable	OEM	-W93
68	2	7033307	(1.0 WH 14) 1mm² White-14 NYAF Cable	OEM	-W94, -W105
69	1	7033308	(1.0 WH 15) 1mm² White-15 NYAF Cable	OEM	-W95
70	1	7034790	(1.0 WH SK) 1mm² White-SK NYAF Cable	OEM	-W18
71	4	7036084	(1.0 RD 1) 1mm² Red-1 NYAF Cable	OEM	-W43, -W44, -W108, -W109
72	2	7036085	(1.0 RD 2) 1mm² Red-2 NYAF Cable	OEM	-W5, -W74
73	4	7036086	(1.0 RD 3) 1mm² Red-3 NYAF Cable	OEM	-W4, -W6, -W75, -W110
74	1	9004447	DSC-300611-01127 Governor Card	Doosan	=GEN+CP-GC



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Page Description

BILL OF MATERIAL

Function	=GEN
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bill of material

Higher Level Assignment:

Location designation:

Pos.	No.	Article Number	Description	manufacturer	Device designation
75	1	9903192	2 Pin Connector - 0,75-1,5 mm ²	SUPERSEAL	=GEN+EW-XS1
76	3	BP_50x90	Breaker panel_50x90	Teksan	-26, -27, -28
77	6	CP_50x36x20	Control panel_50x36x20	Teksan	-20, -21, -22, -23, -24, -25
78	3	Current Transformer	___/5A Current Transformers	OEM	=GEN+BP-CT1, =GEN+BP-CT2, =GEN+BP-CT3
79	1	Doosan Act 3x1.5 TTR Cable	TTR 3x1,5 mm ² Doosan Actuator Orginal Ca	DOOSAN	-W83
80	1	Doosan Mpu 3x1 TTR Cable	TTR 3x1 mm ² Doosan MPU Orginal Cable	DOOSAN	-W84
81	1	Generator Equipment 1	Heater Monophase	___	=GEN+EW-E1
82	1	Generator Equipment 5	Actuator	___	=GEN+EW-ACT
83	2	Generator Equipment 9	12V Battery	OEM	=GEN+EW-BAT.1, =GEN+EW-BAT.2
84	1	Generator Equipment 24	Horn (24V)	Seger	=GEN+EW-HRN
85	1	Generator Equipment 29	Engine Starter	___	=GEN+EW-MM
86	1	Generator Equipment 33	MPU_Pick-up	___	=GEN+EW-MPU
87	1	Generator Equipment 43	Water Level Switch	___	=GEN+EW-SEV
88	1	Generator Equipment 44	Water Temperature Gauge Sender	___	=GEN+EW-HG
89	1	Generator Equipment 45	Water Temperature Switch	___	=GEN+EW-HK
90	1	Generator Equipment 47	Charger Alternator	___	=GEN+EW-ŞD
91	1	Generator Equipment 51	Oil Pressure Switch	___	=GEN+EW-YK
92	1	Generator Equipment 54	Oil Pressure Sender	___	=GEN+EW-YG
93	1	Generator Equipment 58	Fuel Level Sender	___	=GEN+EW-MG
94	1	Generator Equipment 60	Alternator	___	=GEN+ALTERNATOR-A1
95	1	Generator Equipment 61	AVR	___	=GEN+ALTERNATOR-AVR
96	1	Generator Equipment 104	Block Water Heater Thermostat	___	=GEN+EW-T1
97	4	Panel Equipment	Panel Lock	___	=GEN-A4, -A3, -A4, =GEN+CP-32



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