

GENSET COMMAND ELECTRICAL PANEL
QUADRO ELETTRICO DI COMANDO G.E.
CARTE ELECTRONIQUE DU GROUPE
SCHALTAFEL DES STROMERZEUGERS

TYPE :
TIPO :
TYP :
TIPE :
M.F.M + AMF9 NT

VOLTAGE :
TENSIONE :
TENSION :
SPANNUNG :
230 V 3Ph

PROTECTON IND :
GRADO DI PROTEZIONE :
COMMAND E.P.PROTEC.IND. :
SCHUTZART :
IP 00

BATTERY VOLTAGE :
TENSIONE BATTERIA :
TENSION BATTERIE :
BATTERIE SPANNUNG :
12 V

FREQUENCY :
FREQUENZA
FREQUANCE :
FREQUENZ :
50 Hz

NUMBER :
NUMERO DI SERIE :
NUMERO DE SERIE :
SERIALNUMMER :

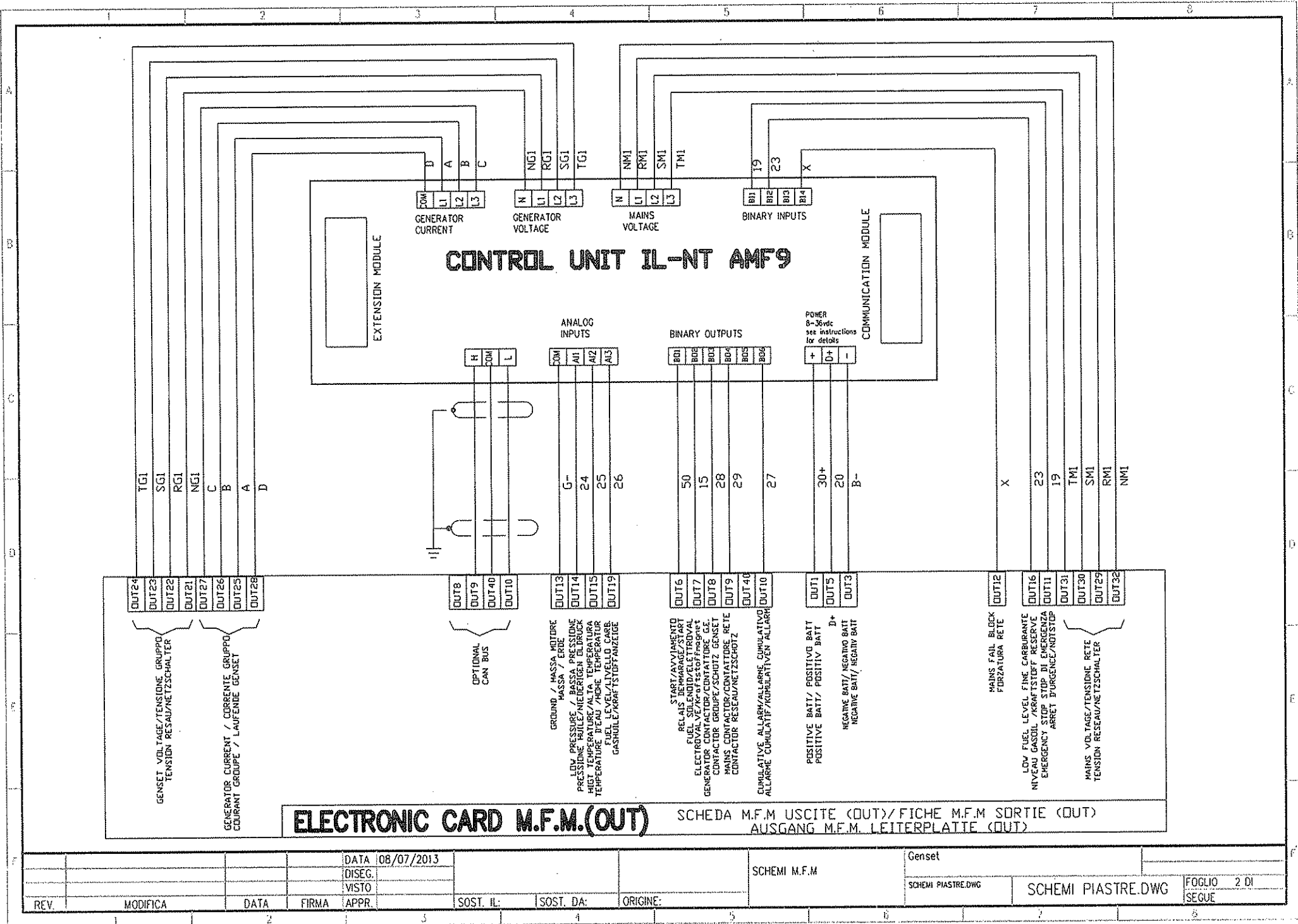
POWER :
POTENZA :
PUISANCE :
LEISTUNG :
100 kVA

FILE :
FILE :
FILE :
FILE :
M.F.M. REV2

CURRENT :
CORRENTE :
COURANT :
STROM :
250 A

DATE:
DATA :
DATE :
DATUM :
8/01/2014

PAGE	DESCRIPTION
FOGLIO	DESCRIZIONE
PAGE	DESCRIPTION
PAKET	BESCHREIBUNG
01	LAY-OUT CONTROL DEVICE DISPOSITIVI ELETTRONICI FICHE ELECTRONIQUE ELEKTRONISCHEGERATE
02	M.F.M.-AMF9 NT OUTPUT CONNECTION M.F.M.-AMF9 NT COLLEGAMENTI USCITE (OUT) M.F.M.-AMF9 NT CONNEXION SORTIE (OUT) M.F.M.-AMF9 NT AUSGANG ANSCHLUSSE (OUT)
03	M.F.M.-AMF9 NT INPUT CONNECTION (IN) M.F.M.-AMF9 NT COLLEGAMENTI USCITE (IN) M.F.M.-AMF9 NT CONNEXION ENTRE'E (IN) M.F.M.-AMF9 NT EINGANG ANSCHLUSSE (IN)
04	M.F.M.-AMF9 NT INPUT CONNECTION (IN) M.F.M.-AMF9 NT COLLEGAMENTI USCITE (IN) M.F.M.-AMF9 NT CONNEXION ENTRE'E (IN) M.F.M.-AMF9 NT EINGANG ANSCHLUSSE (IN)
05	GEN SET CONNECTIONS COLLEGAMENTI GENERATORE CONNEXION DU GROUPE STROMERZEUGER ANSCHLUESSE
06	LEGGEND-PARAMETER LEGGENDA-PARAMETRI LEGGEND-PARAMETERS LEGENDE - PARAMETER
07	
08	



ELECTRONIC CARD M.F.M.(OUT)

SCHEDA M.F.M USCITE (OUT)/FICHE M.F.M SORTIE (OUT)
 AUSGANG M.F.M LEITERPLATTE (OUT)

OUT24	OUT23	OUT22	OUT21	OUT27	OUT26	OUT25	OUT28	OUT8	OUT9	OUT40	OUT10	OUT13	OUT14	OUT15	OUT19	OUT6	OUT7	OUT8	OUT9	OUT40	OUT10	OUT1	OUT5	OUT3	OUT12	OUT16	OUT11	OUT31	OUT30	OUT29	OUT32
GENSET VOLTAGE/TENSIONE GRUPPO TENSION RESAU/NETZSCHALTER								OPTIONAL CAN BUS				GROUND / MASSA MOTORE MASSA / ERDE PRESSURE / PRESSIONE PRESSURE / PRESSIONE HIGH TEMPERATURE / ALTA TEMPERATURA TEMPERATURE DEAU / HOHE TEMPERATUR FUEL LEVEL/LIVELLO CARB. GASNULE/KRAFTSTOFFANZEIGE				START / ANVARSNING RELAIS / RELAY FUEL SOLENOID/VELETTIRVAL ELECTROVALVE/AFSTOFMagnet GENERATOR CONTACTOR/CONTACTEUR G.E. CONTACTOR GROUPE/SCHWIZ GENSET MAINS CONTACTOR/CONTACTEUR RESE CONTACTOR RESERVA/NETZSCHWIZ				POSITIVE BATT / POSITIVO BATT POSITIVE BATT D+ NEGATIVE BATT / NEGATIVO BATT NEGATIVE BATT NEGATIVE BATT			MAINS FAIL BLOCK FORZATURA RETE		LOW FUEL LEVEL / FINE CARBURANTE NIVEAU GASOIL / KRAFTSTOFF RESERVE EMERGENCY STOP STOP DI EMERGENZA ARRET PURGENCE/NOTSTOP		MAINS VOLTAGE/TENSIONE RETE TENSION RESAU/NETZSCHALTER				

DATA 08/07/2013

DISSEG.

VISTO

PLATE M.F.M. / PIASTRA M.F.M. / PLAQUE M.F.M. / PLATTE M.F.M.

FUSE PROTECTION / PROTEZIONE FUSIBILI FUSIBLES DE PROTECTION / SCHMELZSICHERUNG-SCHUTZ

- FUS3** = Battery positive protection (20-25amp)/Fusibile di protezione alimentazione scheda (20-25 amps)
Fusible protection batterie (20-25amp)/Schmelzsicherung zum Schutz der Batterieladung 20-25Amp
- FUS2** = Electronic device positive (IN6) 10amp/Fusibile di protezione uscita (IN6) eccitata in marcia(10Amp)
Fusible de protection sortie/ Schmelzsicherung zum Schutz des Ausgang (IN6) 10 Amp
- FUS4** = 400 V gen set side protection 1amp/Fusibile di prot. per segnale tensione gruppo alla centralina
Fusible de protection tension groupe(1amp)/Schmelzsicherung zur Signalspannung des Stromaggregates an
Der Steuergehäuse (1amp)
- FUS5** = 400 V gen set side protection(1amp)/Fusibile di prot. per segnale tensione gruppo alla centralina (1amps)
Fusible de protection tension groupe (1amp)/Schmelzsicherung zur Signalspannung des Stromaggregates an
Der Steuergehäuse (1amp)
- FUS6** = 400 V gen set side protection(1amp)/Fusibile di prot. per segnale tensione gruppo alla centralina (1amps)
Fusible de protection tension groupe (1amp)/Schmelzsicherung zur Signalspannung des Stromaggregates an
Der Steuergehäuse (1amp)
- FUS7** = 400 V gen set side protection(1amp)/Fusibile di prot. per segnale tensione rete alla centralina (1amps)
Fusible de protection tension reseau(1amp)/Schmelzsicherung zur Netz-Signalspannung an der Steuergehäuse
(1amp)
- FUS8** = 400V mains side protection (1amp)/Fusibile di protezione per segnale tensione rete alla centralina (1amps)
Fusible de protection tension reseau (1amp)/Schmelzsicherung zur Netz-Signalspannung an der Steuergehäuse
(1amp)
- FUS9** = 400V mains side protection (1amp)/Fusibile di protezione per segnale tensione rete alla centralina (1amps)
Fusible de protection tension reseau(1amp)/Schmelzsicherung zur Netz-Signalspannung an der Steuergehäuse
(1 Amp)
- FUS11**=400V mains side protection (1amp)/Fusibile di protezione per trasformatore carica batteria(5amps)
Fusible de protection pour transformateur chargeur de batterie (1amp)/Schmelzsicherung für
Batterieladegerät-Umspanner (5 Amp)

SWITCH / INTERRUITORI INTERRUPTEUR / SCHALTER

SW1 = Control unit type/seleziona il tipo di centralina
Type de unité de control/Zur Wahl des Steuergehäuse-Typ

Name	Firmware ver.	Application	Date	App. ver.	Ser. num.	Filename		
	IL-NT-GPRTT-1.1 R:20.8.2013	AMF9	24/03/2015	1, 1	141111C99			
Group	Name	Value	Dimension	Password	Com. obj.	Low limit	High limit	Data type
Basic Settings	Gen-set Name			No	8537			Short string
Basic Settings	CT Ratio	400 /5A		Yes	8274	1	5000	Unsigned 16
Basic Settings	Nominal Freq	50 Hz		Yes	8278	45	65	Unsigned 16
Basic Settings	NomIn Current	250 A		Yes	8275	1	5000	Unsigned 16
Basic Settings	Presart Time	1 s		No	8394	0	609	Unsigned 16
Basic Settings	MaxCrank Time	8 s		No	8256	1	255	Unsigned 8
Basic Settings	Idle Time	3 s		No	9097	0	609	Unsigned 16
Basic Settings	Cooling Time	60 s		Yes	8258	0	3600	Unsigned 16
Basic Settings	Cooling Speed	NOMINAL		No	10046			String list
Basic Settings	WrtMaintenance	250 h		Yes	9648	0	10000	Unsigned 16
Basic Settings	Test Period	0 d		Yes	10044	0	240	Unsigned 16
Basic Settings	Test Duration	0 min		Yes	10201	0	240	Unsigned 16
Basic Settings	ConnectionType	3Ph3Wtr		Yes	11628			String list
Basic Settings	COM1 Mode	DIRECT		Yes	24522			String list
Engine Protect	A11 Wrn	2		Yes	8369	0	10	Integer 16
Engine Protect	A11 Sd	1		Yes	8370	0	10	Integer 16
Engine Protect	A11 Del	2 s		Yes	8365	0	900	Unsigned 16
Engine Protect	A12 Wrn	105		Yes	8375	-16	120	Integer 16
Engine Protect	A12 Sd	110		Yes	8376	-16	120	Integer 16
Engine Protect	A12 Del	2 s		Yes	8371	0	900	Unsigned 16
Engine Protect	Fuel Level Wrn	20 %		Yes	8381	0	100	Integer 16
Engine Protect	Fuel Level Sd	10 %		Yes	8382	0	100	Integer 16
Engine Protect	Fuel Level Del	10 s		Yes	8377	0	900	Unsigned 16
Engine Protect	Batt Undervolt	9.0 V		Yes	8387	8.0	40.0	Integer 16
Gener Protect	Short Crct Sd	110 %		Yes	8282	100	500	Unsigned 16
Gener Protect	Short Crct Del	10.00 s		Yes	9991	0.00	60.00	Unsigned 16
Gener Protect	Amps Unbal BOC	50 %		No	8284	1	200	Unsigned 16
Gener Protect	Amps Unbal Del	5.0 s		No	8285	0.0	600.0	Unsigned 16
Gener Protect	Gen >V Sd	259 V		Yes	8291	160	600	Unsigned 16
Gener Protect	Gen <V BOC	190 V		Yes	8293	0	450	Unsigned 16
Gener Protect	Gen V Del	3.0 s		Yes	8292	0.0	600.0	Unsigned 16
Gener Protect	Gen >Freq BOC	110.0 %		Yes	8296	85.0	115.0	Unsigned 16
Gener Protect	Gen <Freq BOC	95.0 %		Yes	8298	0.0	110.0	Unsigned 16
Gener Protect	Gen Freq Del	3.0 s		Yes	8297	0.0	600.0	Unsigned 16
AMF Settings	EmergStart Del	5 s		No	8301	0	6000	Unsigned 16
AMF Settings	MainsRetumDel	30 s		No	8302	1	3600	Unsigned 16
AMF Settings	Mains >V	240 V		No	8305	190	600	Unsigned 16
AMF Settings	Mains <V	190 V		No	8307	50	240	Unsigned 16
AMF Settings	Mains >Freq	102.0 %		No	8310	96.0	150.0	Unsigned 16
AMF Settings	Mains <Freq	98.0 %		No	8312	50.0	102.0	Unsigned 16
AMF Settings	Operation Mode	AMF		No	12157			String list
SMS/E-Mail	Yel Alarm Msg	OFF		No	8482			String list
SMS/E-Mail	Red Alarm Msg	OFF		No	8484			String list
SMS/E-Mail	Event Msg	OFF		No	10926			String list
SMS/E-Mail	Tel Number			No	9597			Long string

Autostart panel board with M.F.M. electronic card / Quadro di controllo a bordo macchina su SCHEDA M.F.M.
T.E. commande et controle e.e. M.F.M / Steuergeraet auf der maschine auf platte M.F.M.

Control unit / centralna
Carte electronique / Steuergerat

IL NT AMF9

Number / Numero
Matricule / Nummer

M.F.M. rev1

COMPONENTS DESCRIPTION / ELENCO COMPONENTI
DESCRIPTION COMPOSANT / LISTE DER KOMPONENTE

DESCRIPTION / DESCRIZIONE DESCRIPTION / BESCHREIBUNG	CONSTRUCTOR CONSTRUTTORE CONSTRUCTOR FABRIKAT	CODEX CODICE TYPE MENGE	QUANTITY QUANTITA' QUANTITÄT HÖHE	SYMBOL SIMBOLO NOM SYMBOL
BATTERY CHARGER CARICA BATTERIE CHARGEUR DE BATTERIE BATTERIE LADEGERÄT	LOVATO	BGF025012	1	CB
AUTOMATIC SWITCH (OPTIONAL) INTERUTTORE BIPOLARE 2*10A INTERUPTEUR 2*10A ZWEIPOLIGER SCHALTER 2*10A	ABB	SN201LC10	1	WH
TERMINAL BLK MORSETTI WAGO BORNES	WAGO	ID 20221301	8	XB
WAGO-KLEMMEN	WAGO	ID 20221304	1	XB
TERMINAL BLK MORSETTI WAGO BORNES	WAGO	ID 20221307	1	XB
WAGO-KLEMMEN	REVALCO	400 /5A	3	TA
CURRENT TRASFORMER TRASFORMATORE AMPEROMETRICO TRANSFORMI COURANT AMPEROMETRISCHER UMSPANNE	COMAP	IL NT AMF9	1	AMF9
CONTROL UNITE CENTRALINA DI CONTROLLO UNITE DE CONTROL GROUPE ELECTR. STEUERGERÄT	G.P.S.	M.F.M.	1	M.F.M.
M.F.M. ELECTRONIC CARD SCHEDA M.F.M. FIGHE M.F.M. PLATTE M.F.M.	ABB	1SDA054117R1	1	AS
AUTOMATIC SWITCH INTERUTTORE QUADRIPOLARE INTERUPTEUR VIERPOLIGER SCHALTER	ABB	MPMT3-10R	1	ES
EMERGENCY STOP PULSANTE DI EMERGENZA BOUTON D'URGENCE NOTSCHALTER	ABB	MCB-01	2	
CONTACT BLOCK E.S. CONTATTO P.E. CONTACT P.E. E.S. KONTAKT				

08/07/2013