CONTACTS TO DRY
(REMOTE START/ STOP)

BATTERY GND
START
DETECT

TO START UNIT IN AUTO-
GROUND YELLOW SENSE LEAD
TO GREEN GROUND (-12VDC)

14GA WHITE/RED

12GA RED

1 E-GOV

12GA RED

F6 Y F5 F4 Y F3 E3 F2 E2 F1 E1

NEUTRAL

14GA WHITE

40

ALARM INTERFACE
LOW COOLANT SW

AUXILLIARY 20A

FUEL-OFF/ON 20A

+24VDC 20A

EMERG-3 2A

EMERG-2 2A

EMERG-1 2A

A

14GA RED

14GA GREEN

14GA YELLOW

C GEMS LOW COOLANT SENDER

F6 F5 F4 2 F3 39 F2 38 F1 37

14GA RED

ALARM INTERFACE

14GA RED

CUT

3 2

B CANBUS

CAN BUS CABLE BLACK CLEAR

14GA YELLOW

S-26

EF ER

CANBUS

USB

7420 MK-II

RS485 RS232

RS232 RS485

EMERGENCY
SHUT DOWN
SWITCH

3 2

OPTIONAL

SENS
BATTERY
CHARGER

58-FUEL HIGH LEVEL DIGITAL INPUT 8 (WHITE)
57-LOW COOLANT LEVEL DIGITAL INPUT 7 (WHITE)
56-LOW BATERRY VOLTAGE DIGITAL INPUT 6 (BLK/YEL)
55- HIGH BATTERY VOLTAGE DIGITAL INPUT 5 (WHT/YEL)
54-BATTERY CHARGER AC FAIL DIGITAL INPUT 4 (WHT/BLU)
53-FUEL LEAKAGE DIGITAL INPUT 3 (WHT/YEL)
52-LOW FUEL 50% DIGITAL INPUT 2 (BLK/YEL)

33 22 11

A

STANDARD DIGITAL INPUT 1

FROM GENSET
(START-DETECT)

ONLY (1) LEAD

GEN BLACK WHITE X1 E3

GEN BLACK WHITE X1 E2

GEN X1 E1

(3) CTs FOR
3 PHASE

14GA RED

RELAY FITTING

WHITE/RED 4

PILOT RELAYS

GREEN

WHITE/BLUE 5

14GA RED

RUN RELAY

WHITE/RED 5

START RELAY

WHITE/BLUE

PSI ENGINE HARNESS

14GA WHITE/ RED

FRONT VIEW

PSI CONNECTOR

EPA FUEL VALVE

U.L. REQD. REDUNDANT VALVE

RED GREEN GREEN RED GREEN

14GA WHITE/RED

RED M F

WHT/YEL WHT/YEL

GM 15326868

YEL WHT/BLU

BLK/YEL M F GREEN

CONNECT FOR LPG

PSI CONNECTOR

REAR VIEW

GREEN S BLACK CLEAR

CAN BUS CABLE

DO NOT CONNECT SHIELD

B

PSI HARNESS

GEMS LOW
COOLANT SENDER

C 57 RED WHITE BLACK

PSI HARNESS

BLUE F

STARTER

SOLENOID

F4

6GA BLACK

24V

BATTERY

BATTERY

6GA RED

14GA GREEN

14GA GREEN

14GA YELLOW

ALTERNATOR

6GA RED

10GA RED

PSI HARNESS

B SP-SERIES-DRY-FUEL-3PH-7420-MK-II

GILLETTE GENERATORS, INC. 2921 THORNE DR, ELKHART, IN 46514 574.264.9639			
DESCRIPTION: WIRING DETAIL SP-2000 THRU SP-5000 WIRING FOR AUTO START/STOP W/ 7420MK2 CONTROLLER			REV 0
DATE: 11/04/2025	PT. NO:	SCALE: N/A	CAD_NO.: 20251104
DR.BY: DB	ENG. DB	PG.NO. 1 OF 1	DRAWING NO.: SP-DRYFUEL-20251006