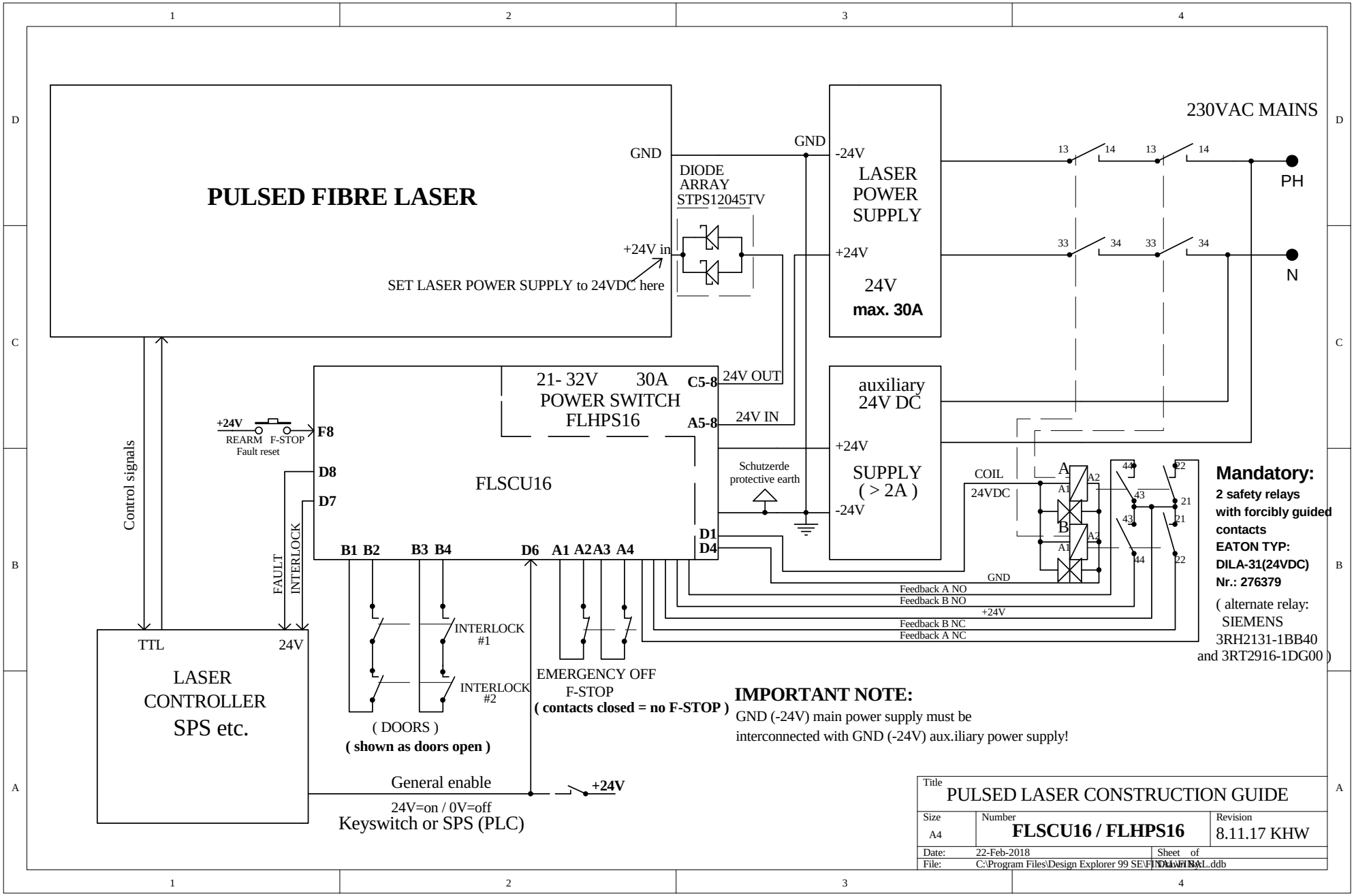
PULSED FIBRE LASER
GND
+24V in
SET LASER POWER SUPPLY to 24VDC here
DIODE ARRAY STPS12045TV
GND
-24V
LASER POWER SUPPLY
+24V
24V
max. 30A
230VAC MAINS
13
14
13
14
PH
33
34
33
34
N
21- 32V 30A
POWER SWITCH
FLHPS16
C5-8
24V OUT
A5-8
24V IN
auxiliary 24V DC
+24V
SUPPLY (> 2A)
-24V
Schutzerde protective earth
+24V
REARM F-STOP
Fault reset
F8
D8
D7
FLSCU16
D1
D4
B1 B2
B3 B4
D6
A1 A2 A3 A4
Control signals
FAULT
INTERLOCK
COIL
24VDC
A
B
A1
A2
44
43
22
21
GND
Feedback A NO
Feedback B NO
+24V
Feedback B NC
Feedback A NC
Mandatory:
2 safety relays
with forcibly guided
contacts
EATON TYP:
DILA-31(24VDC)
Nr.: 276379
(alternate relay:
SIEMENS
3RH2131-1BB40
and 3RT2916-1DG00)
TTL
24V
LASER CONTROLLER
SPS etc.
INTERLOCK #1
INTERLOCK #2
(DOORS)
(shown as doors open)
EMERGENCY OFF
F-STOP
(contacts closed = no F-STOP)
IMPORTANT NOTE:
GND (-24V) main power supply must be
interconnected with GND (-24V) aux.iliary power supply!
General enable
24V=on / 0V=off
Keyswitch or SPS (PLC)
+24V
Title
PULSED LASER CONSTRUCTION GUIDE
Size
A4
Number
FLSCU16 / FLHPS16
Revision
8.11.17 KHW
Date:
22-Feb-2018
Sheet of
File:
C:\Program Files\Design Explorer 99 SE\FINAL.ddb
Drawn by: