

15C24

Variant: [01] - Sample Production

25/02/2025
V0

RELEASED

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DESIGN CONSIDERATIONS

DESIGN NOTE:
Example text for informational
design notes .

DESIGN NOTE:
Example text for critical
design notes.

DESIGN NOTE:
Example text for cautionary
design notes.

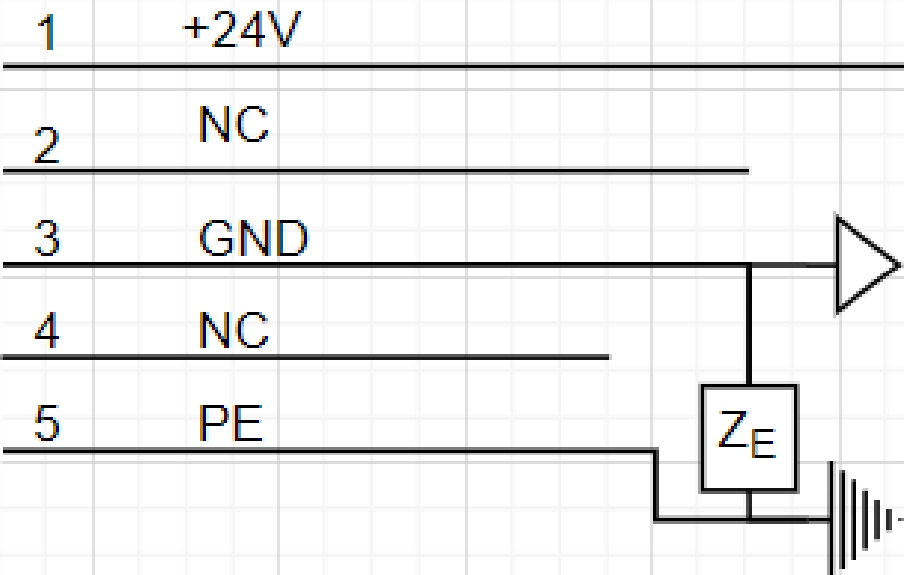
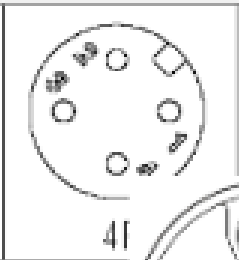
LAYOUT NOTE:
Example text for critical
layout guidelines.

BLOCK DIAGRAM



15C24 Power connection board (PROFINET)

M12 4 pin male L-coded

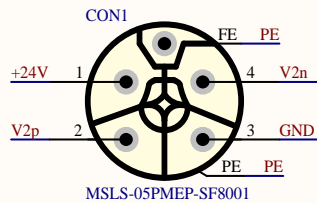


VERT. ZIF
MOLEX 8W
526100871

1
2
3
4
x 5
6
x 7
8

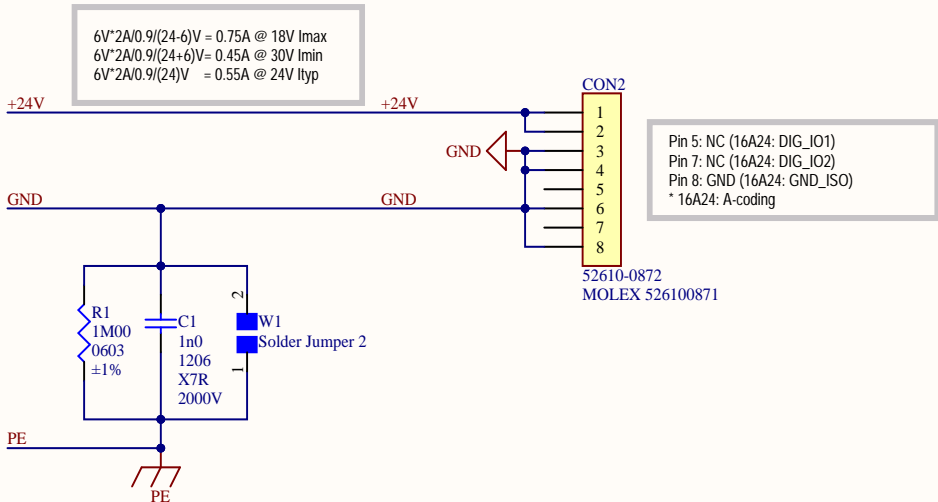
CLOCKS (CPU & PCB)

CONNECTORS



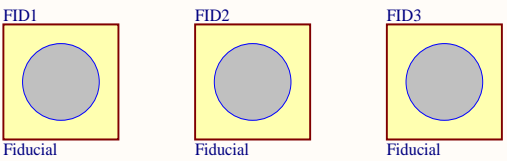
Amphenol M12L MALE 4+1W
Holes 1.4>1.5 for ENG_CD_T4140L120X1000_B

ALTERNATIVE TE T4140L12051000_B DOES NOT HAVE
BOTTOM STANDOFF > Risk of shorting +24V to M12 case if
solder resist is scratched.

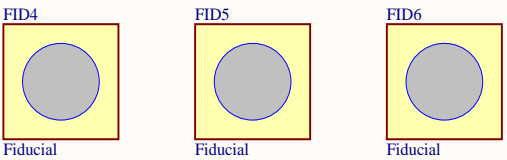


FIDUCIALS

TOP



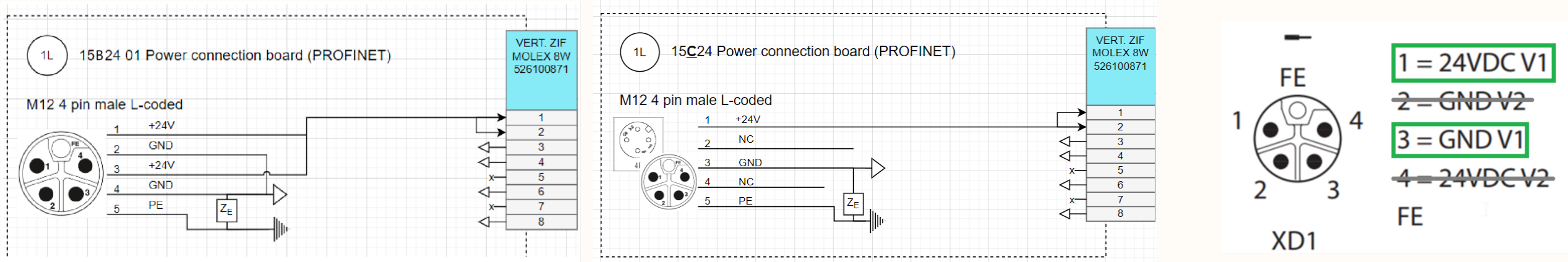
BOT



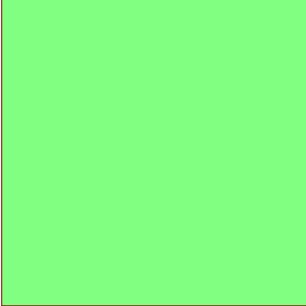
DOC: REVISION HISTORY

15A24 > 15B24: +24V line partially moved to the top of the connector so it's possible to use TE's M12 alternative T4140L12051000_B , which does not have any standoff and the housing might be shorted to the bottom copper if the solder resist is scratched (layout only).

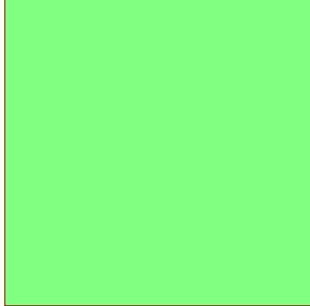
15B24 > 15C24: customer is using only V1 circuit, which must be isolated with respect to V2. Thus, pins 2 and 4 of the M12L connector must be floating. Clarified during meeting with Leuze on 2025.02.25.
*** +24V track is still on bottom, however (resist might be scratched by M12). ***



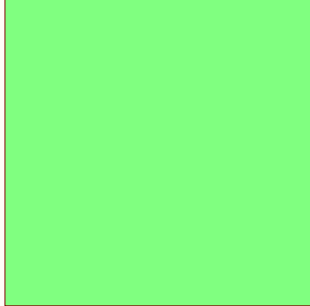
Designator
[01] - COVER PAGE.SchDoc



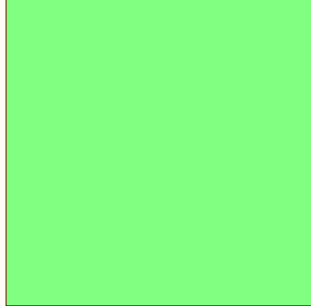
Designator
[02] - BLOCK DIAGRAM.SchDoc



Designator
[03] - CONNECTORS.SchDoc



Designator
[04] - DOC REVISION HISTORY.SchDoc



TEMPLATE NOTES

Set Project Parameters

- 1) Go to Project -> Project Options -> Parameters
- 2) Set Project and Version

Mark Not Fitted Components as

NF

Net Class Example



Differential signal example



TITLE Examples (You can change the color to reflect your company color)

PAGE TITLE

Peripheral / Group of component title

Smaller Ttitle

Schematic Status Explanation

DRAFT - Very early stage of schematic, ignore details.

PRELIMINARY - Close to final schematic.

CHECKED - There should not be any mistakes. Tell the engineer if you find one.

RELEASED - A board with this schematic has been sent to production.

Title 15C24		Kronotech Srl Via Adriatica, 284 33030 - Basaldella (UD) Italy
Size: A3	Revision: V0	
Date: 25/02/2025	Sheet 5 of 5	