

6SE7090-0XX84-3DB1

SIMOVERT MASTERDRIVES Digital Tacho Interface Board

INSTALLATION AND COMMISSIONING WORKBOOK

1

IDENTIFY

2

ISOLATE

3

INSTALL

4

VERIFY

Preparation gate

Complete these checks before disconnecting the installed product.

1

Confirm the complete 6SE7090-0XX84-3DB1 marking and DB1 hardware.

☐

2

De-energize the drive and verify the motor cannot turn before work.

☐

3

Confirm the rail mounting and cabinet protection against direct contact.

☐

4

Select only X401 for TTL or X402 for HTL input wiring.

☐

PRE-WORK RECORD

Work order

Drawing / revision

Checked by

Date

Installation and connection sequence

Snap 6SE7090-0XX84-3DB1 onto the mounting rail inside a protective cabinet, use screened cables and bond the screens at X80 and X81. Select only one input connector, X401 for TTL or X402 for HTL, then verify X403/X405 routing and the drive encoder parameters before rotation.

05

Record X403/X405 control-board routing and every pulse-track conductor.

06

Use screened cable and bond screens at X80 and X81.

07

Verify the isolated 24 Vdc supply and encoder current requirement.

08

Set the applicable MASTERDRIVES encoder parameters and prove direction and speed feedback.

Commissioning record

Record the controlled checks used to release this exact product.

1. Identity / article	PASS / FAIL	_____

2. Mechanical installation	PASS / FAIL	_____

3. Power / wiring	PASS / FAIL	_____

4. Grounding / shielding	PASS / FAIL	_____

5. Configuration	PASS / FAIL	_____

6. Signal response	PASS / FAIL	_____

7. Diagnostics / alarms	PASS / FAIL	_____

8. Final release	PASS / FAIL	_____

MODEL-SPECIFIC ACCEPTANCE

Confirm 6SE7090-0XX84-3DB1 identity, MASTERDRIVES family and control board, rail and enclosure, TTL/HTL encoder type, X401/X402 selection, X403/X405 routing, 24 Vdc supply, X80/X81 screen grounding, cable length, drive parameters and controlled rotation test before commissioning.

Engineering navigation and closeout

Eight different validated product pages for related system planning.

VALIDATED RELATED ENGINEERING PAGES	
01	6ES7321-1BL00-0AA0 Apter Power product page
02	6ES7153-2BA02-0XB0 Apter Power product page
03	6SE7090-0XX84-0AB0 Apter Power product page
04	6AV6643-0CD01-1AX1 Apter Power product page
05	7KG7000-8AA/BB Apter Power product page
06	6AV3503-1DB10 Apter Power product page
07	39ACM24BAN Apter Power product page
08	39MBXNAN 16180-1-14 Apter Power product page

Navigation links only - not manufacturer evidence for technical parameters.

MANUFACTURER SOURCE

SIMOVERT MASTERDRIVES DTI - Digital Tacho-Interface Operating Instructions | 6SE7087-6CX84-3DB0, Edition 11.2006

APTER POWER SALES TEAM

WHATSAPP / PHONE
+86 180 3023 5313

EMAIL
sales13@apterpower.com

WEBSITE
www.apterpower.com



6SE7090-0XX84-3DB1