

ABB FEN-01 68679273

Encoder Interface & Wiring Reference

Two TTL inputs, encoder output and position-latch capture



ABB product / lookup identity	FEN-01 68679273
Document scope	Independent Apter Power reference compiled only from the cited ABB public sources.
Image policy	No product photograph is included in this document.



Apter Power product page
<https://www.apterpower.com/ABB/fen-01-68679273>

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Before work begins

This checklist does not replace the current ABB host-equipment manual. It separates published facts from project-specific information that must be verified on the installed system.

1	Confirm the physical nameplate and current ABB order code; ABB's current public code is 68805422.
2	Select 5.5 V or 24 V encoder supply correctly before connecting the encoder.
3	Verify X31, X32, X33 and X34 connector assignments against the FEN-01 user's manual.
4	Keep the differential encoder channel frequency at or below ABB's 500 kHz limit.
5	Confirm drive, control-unit, option-slot and FEA-03 support in the relevant drive manual.
6	Do not assume FEN-11, FEN-21 or FEN-31 is interchangeable; their feedback technologies differ.

Identity controls

Official parameter	Published value
Complete code	FEN-01 68679273
Model / lookup label	FEN-01
Documented role	TTL encoder interface for ABB drives
Canonical product page	https://www.apterpower.com/ABB/fen-01-68679273

Signal and component verification

1	A supported drive option slot or approved FEA-03 adapter supplies the module connection.
2	X31 accepts differential A/B/Z; X32 accepts A/B/Z plus U/V/W commutation and PTC input.
3	The drive uses encoder feedback for closed-loop speed and position functions.
4	X33 can echo or emulate A/B/Z, while X34 captures two position-latch events.

System context

TTL encoder on X31 or X32	Supported ACS850, ACS880 or DCS880 drive
FEA-03 option extension adapter where the drive manual permits it	X33 encoder echo / emulation recipient
X34 position-latch signals	5.5 V or 24 V encoder supply selected per wiring requirements

Release decision

Release the equipment for installation or commissioning only after the complete ABB identity, host-system documentation, connector assignments, supply conditions and applicable lifecycle or migration instructions have been checked. Unpublished values must not be inferred from similar ABB revisions.

Official ABB sources

ABB FEN-01 product record	https://www.abb.com/global/en/products/68805422
FEN-01 User's Manual, 3AFE68784603 Rev. C	https://library.e.abb.com/public/9ccad0f8311244488590ad0d6cf26564/en_FEN_01_um_C.pdf
ABB ACS880 Drive Modules Catalog, Rev. P	https://library.e.abb.com/public/a2cb7f45967d4cc6900ea5bcf363b2fd/ACS880_drive_modules_catalog_3AUA0000115038_RevP_EN.pdf



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