

ABB FEN-01 68679273

Product Reference Manual

Two TTL inputs, encoder output and position-latch capture

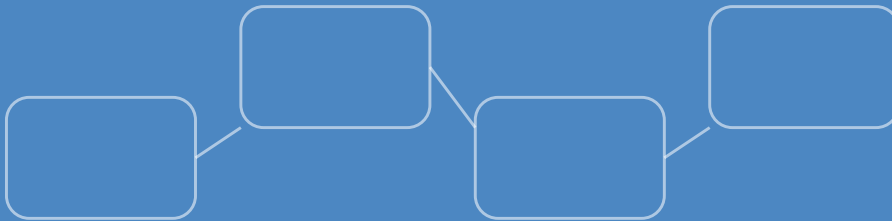


ABB product / lookup identity	FEN-01 68679273
Document scope	Independent Apter Power reference compiled only from the cited ABB public sources.
Image policy	No product photograph is included in this document.



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

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Product identity and system role

ABB FEN-01 is a TTL encoder interface for supported ABB drives. X31 processes differential A, B and Z feedback; X32 additionally supports U, V and W commutation signals plus a PTC thermistor input. X33 provides TTL encoder emulation or echo, and X34 provides two position-latch inputs. ABB's current public loose-item order code is 68805422. The requested code 68679273 is retained as a lookup label, but no relationship to the current order code was confirmed in the cited ABB public sources.

Official parameter	Published value
Module type	TTL Encoder Interface
Current ABB loose-item code	68805422
Drive option code	+L517
Encoder inputs	2 TTL inputs; X31 and X32
Encoder output	X33 TTL emulation / echo, A/B/Z
Position latch inputs	2 through X34
Maximum channel frequency	500 kHz
Protection / dimensions	IP20 / 63 x 106 mm

Functional path

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.

Compatible 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

Applications supported by the cited ABB material

Closed-loop motor speed feedback	Position feedback and position latching
TTL feedback with U/V/W commutation signals	PTC motor-temperature sensing through X32
Encoder signal echo to another drive	Encoder emulation from internal position data

Frequently asked questions

How many encoder inputs are provided?	Two TTL encoder inputs.
What does X31 accept?	Differential A, B and Z channels.
What extra signals does X32 accept?	U/V/W commutation signals and a PTC thermistor input in addition to A/B/Z.
Is an encoder output provided?	Yes. X33 provides TTL encoder emulation or echo.
What is the maximum channel frequency?	ABB specifies 500 kHz.
What is the current ABB order code?	68805422; the drive option code is +L517.

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