ABB FEN-01 TTL FEEDBACK

# Product Data Sheet

## FEN-01 68679273

TTL Encoder Interface Module

| MAXIMUM MODULE CURRENT | COMBINED EXTERNAL LOAD POWER | ENCLOSURE PROTECTION | HOST CONNECTION |
|---|---|---|---|
| **350 mA at 24 V** | **5 W maximum** | **IP20** | **20-pin socket** |

ABB FEN-01 68679273 is a TTL encoder interface module in the ABB FEN-01 TTL Feedback family. It serves compatible installed control equipment in the documented system configuration.

## 01 VERIFIED TECHNICAL DATA

| | |
|---|---|
| Maximum module current | 350 mA at 24 V |
| Combined external load power | 5 W maximum |
| Enclosure protection | IP20 |
| Host connection | 20-pin socket |
| X31 input signalling | RS-422/485 differential, 500 kHz maximum |
| X31 encoder supply | 5.5 V DC, 180 mA; 24 V DC, 150 mA |
| X31 cable limits | 30 m single 0.5 mm²; 60 m parallel pairs; 100 m at 10 to 30 V |
| X31 speed measurement range | -32768…32767 rpm |
| X31 speed resolution | 0.004 rpm, 24 bit |
| Position resolution | 16.8 million counts/revolution, 24 bit |

Values follow the unit photographs and applicable documents identified on page 2.

## 02 ADDITIONAL PRODUCT DATA

| | |
|---|---|
| X32 commutation channels | A, B, Z, U, V, W |
| X32 thermistor connection | PTC input |
| X33 emulation range | 1 to 65535 pulses/revolution |
| Emulation cable length | 100 m maximum |
| Latch logic thresholds | Low <5 V; high >15 V |

## 03 DOCUMENTED USE SETTINGS

Packaging Production and Material Converting: Carton Packaging Process Control.

Manufacturing and Industrial Production Automation: Industrial Manufacturing Process Automation.

Metal Processing and Rolling Production: Steel Rolling Process Control.

## 04 SYSTEM COMPATIBILITY

Match FEN-01 68679273 to the documented ABB FEN-01 TTL Feedback arrangement. Confirm the supplied execution, connections and required companion equipment before integration.

## 05 PRODUCT EVIDENCE

ABB FEN-01 User manual 3AFE68784603 Rev E, technical data pp.34 to 36

**AMIKON PRODUCT SUPPORT**

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