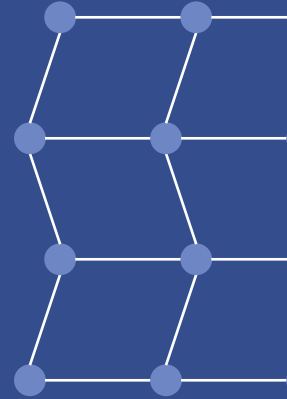


# ABB FIO-11 – Requested Code 68679079 Verification

## Product Reference

ABB FIO-11 Analog and Digital I/O Extension Module



### DOCUMENT SCOPE

Independent Apter Power manual compiled only from the cited ABB manufacturer sources. No product photograph is included.

|                           |                                                                   |
|---------------------------|-------------------------------------------------------------------|
| Product / lookup identity | ABB FIO-11 – Requested Code 68679079 Verification                 |
| Reference number          | 68679079                                                          |
| Document basis            | Published ABB product records, PDFs, and manuals listed on page 3 |



### Product page

<https://www.apterpower.com/ABB/ABB-Drives/ACS-850/fio-11>  
**Apter Power contact**

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## Product role and published parameters

### WHAT IT IS, WHAT IT DOES, AND WHERE IT FITS

ABB FIO-11 is a general-purpose analog and digital I/O extension module for a compatible ABB drive; ABB's current public product ID is 68805384, while requested code 68679079 is not corroborated in the reviewed ABB sources and remains on nameplate/order-record hold. Installed in a documented drive option slot, it expands the drive's control interface with three analog inputs, one analog current output, and two programmable digital input/output channels so the drive application can receive extra process values and discrete states and can issue an analog command or digital outputs. System context: ABB FIO-11 Analog and Digital I/O Extension Module.

| Published field               | Manufacturer-published value or verified identity note                        |
|-------------------------------|-------------------------------------------------------------------------------|
| Module type                   | General-purpose analog and digital I/O extension                              |
| Verified model                | FIO-11                                                                        |
| Current ABB public product ID | 68805384                                                                      |
| Requested numeric code        | 68679079 – identity relationship not confirmed in reviewed ABB public sources |
| Analog inputs                 | 3 differential channels                                                       |
| Analog input voltage range    | -10 to +10 V                                                                  |
| Analog input current range    | -20 to +20 mA                                                                 |

### System function and signal path

|    |                                                                                                                                                                                                                                       |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 01 | Analog Inputs: Three differential inputs acquire voltage or current process signals selected by the module's slide switches. The manual specifies 16-bit A/D conversion, scaling in the drive application, and DC-to-4-kHz bandwidth. |
| 02 | Analog Output: One 0-to-20-mA output converts the drive application's commanded value to an analog current signal for a load below 500 ohms.                                                                                          |
| 03 | Digital Channels: Two 24 V channels accept discrete status signals or produce programmable push-pull/open-collector outputs with 50 mA source and sink capability.                                                                    |
| 04 | Drive Interface: The 20-pin option-slot connector automatically carries signal and module power between FIO-11 and the drive control unit; communication is enabled and mapped through the applicable drive firmware.                 |

## Applications, answers, and official sources

**1** Extra analog feedback: Adds three voltage/current inputs for documented process values such as drive-related setpoints or feedback signals when the host drive program supports FIO-11.

**2** Analog command output: Provides one 0-to-20-mA output for a compatible receiving device in a drive control cabinet.

**3** Digital interlocks and statuses: Uses the two configurable 24 V channels to receive switch/interlock states or command small documented loads.

**4** Expanded drive automation: Extends the I/O available to a compatible ABB drive in machinery and process-control installations without assigning the module unsupported stand-alone PLC functions.

### Frequently asked questions

|                                                           |                                                                                                                                                                       |
|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| What is ABB FIO-11?                                       | It is a general-purpose analog and digital I/O extension module for a compatible ABB drive.                                                                           |
| Is 68679079 officially verified as the FIO-11 product ID? | Not from the reviewed ABB public sources. ABB's current public FIO-11 record uses product ID 68805384, so 68679079 requires a matching ABB nameplate or order record. |
| How many I/O channels does FIO-11 provide?                | It provides three analog inputs, one analog output, and two configurable digital input/output channels.                                                               |
| Which analog input signals can it measure?                | Each analog input can be selected for -10 to +10 V or -20 to +20 mA.                                                                                                  |
| What analog output does it provide?                       | One 0-to-20-mA output for a load below 500 ohms.                                                                                                                      |
| Can the digital channels be outputs?                      | Yes. Each can be programmed as an input, push-pull output, or open-collector output, subject to the drive program and the 50 mA source/sink rating.                   |

### Official ABB sources

|                                                                          |                                                                                                                                                                                                                 |
|--------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ABB FIO-11 official product page                                         | <a href="https://www.abb.com/global/en/products/68805384">https://www.abb.com/global/en/products/68805384</a>                                                                                                   |
| FIO-11 Analog I/O Extension User's Manual                                | <a href="https://library.e.abb.com/public/c8820e9bc03a3d20c12573e100390d8a/en_FIO_11_UM_C.pdf">https://library.e.abb.com/public/c8820e9bc03a3d20c12573e100390d8a/en_FIO_11_UM_C.pdf</a>                         |
| FIO-11 Analog I/O Extension Quick Guide                                  | <a href="https://library.e.abb.com/public/c452f950d62c4d2cbe9f13df22114e26/FIO-11_Quick_Guide_C.pdf">https://library.e.abb.com/public/c452f950d62c4d2cbe9f13df22114e26/FIO-11_Quick_Guide_C.pdf</a>             |
| ABB ACS580MV technical data                                              | <a href="https://new.abb.com/drives/medium-voltage-ac-drives/acs580mv/acs580mv-technical-data">https://new.abb.com/drives/medium-voltage-ac-drives/acs580mv/acs580mv-technical-data</a>                         |
| ABB Automation Builder Help – Extension I/O in drive application program | <a href="https://help.plc.abb.com/Dap_extension_IO.html">https://help.plc.abb.com/Dap_extension_IO.html</a>                                                                                                     |
| ABB ACS850-04 hardware manual                                            | <a href="https://library.e.abb.com/public/0be9bbab29e380b5c1257b88001f7002/EN_ACS850_E0_E_HW_C_screen.pdf">https://library.e.abb.com/public/0be9bbab29e380b5c1257b88001f7002/EN_ACS850_E0_E_HW_C_screen.pdf</a> |
| ABB ACSM1 Lift Control Program Firmware Manual                           | <a href="https://library.e.abb.com/public/ab29b4c51c4646a1900ad92d3988cc1c/EN_ACSM1_Lift_Ctrl_FW_B_A4.pdf">https://library.e.abb.com/public/ab29b4c51c4646a1900ad92d3988cc1c/EN_ACSM1_Lift_Ctrl_FW_B_A4.pdf</a> |