

# ABB 1SAP140500R0271 PM585-ETH

Installation & Verification Reference

Modular PLC execution, I/O coordination and industrial communication



|                               |                                                                                    |
|-------------------------------|------------------------------------------------------------------------------------|
| ABB product / lookup identity | 1SAP140500R0271                                                                    |
| 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/1sap140500r0271-pm585-eth>

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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 | Match the complete R0271 order code and confirm that the CPU is not the R0379 PM585-MC-KIT.       |
| 2 | Use an R0270 Ethernet terminal base: TB511-ETH, TB521-ETH or TB541-ETH.                           |
| 3 | Confirm the 24 V DC supply and terminal-base wiring against the current ABB hardware manual.      |
| 4 | Plan I/O in Automation Builder; do not treat AC500 architecture limits as onboard channel counts. |
| 5 | Back up the application and parameter set before replacement or firmware work.                    |
| 6 | Verify firmware, communication-module and remote-I/O compatibility before commissioning.          |

## Identity controls

| Official parameter     | Published value                                                                                                                 |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Complete code          | 1SAP140500R0271                                                                                                                 |
| Model / lookup label   | PM585-ETH                                                                                                                       |
| Documented role        | AC500 V2 processor module                                                                                                       |
| Canonical product page | <a href="https://www.apterpower.com/ABB/1sap140500r0271-pm585-eth">https://www.apterpower.com/ABB/1sap140500r0271-pm585-eth</a> |

## Signal and component verification

|   |                                                                                                          |
|---|----------------------------------------------------------------------------------------------------------|
| 1 | Field sensors and actuators terminate on compatible S500/S500-eCo or remote I/O.                         |
| 2 | The CPU exchanges digital and analog process data across the local I/O bus, CS31 or configured fieldbus. |
| 3 | The 400 MHz processor executes cyclic, time-controlled or multitasking PLC logic.                        |
| 4 | Control results return to the configured output modules and connected plant equipment.                   |

### System context

|                            |                                                 |
|----------------------------|-------------------------------------------------|
| TB511-ETH ISAPI111100R0270 | TB521-ETH ISAPI12100R0270                       |
| TB541-ETH ISAPI14100R0270  | S500 and S500-eCo local I/O                     |
| ABB Automation Builder     | Compatible remote I/O and communication modules |

### 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

|                                              |                                                                                                                                                                                                                                                           |
|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ABB product record</b>                    | <a href="https://www.abb.com/global/en/products/isap140500r0271">https://www.abb.com/global/en/products/isap140500r0271</a>                                                                                                                               |
| <b>PM57x/PM58x/PM59x Data Sheet, Rev. 11</b> | <a href="https://library.e.abb.com/public/bd53984f89b94eafbff23c14a87ea0bf/PM57x_PM58x_PM59x_Data_Sheet%2C%2011%2C%20en_US.pdf">https://library.e.abb.com/public/bd53984f89b94eafbff23c14a87ea0bf/PM57x_PM58x_PM59x_Data_Sheet%2C%2011%2C%20en_US.pdf</a> |
| <b>AC500 V2 Hardware Manual, Rev. 22</b>     | <a href="https://library.e.abb.com/public/d29142ffd3fb46e281a0e41eefeff7b7/CAA-Merger-2%2C%2022%2C%20en_US.pdf">https://library.e.abb.com/public/d29142ffd3fb46e281a0e41eefeff7b7/CAA-Merger-2%2C%2022%2C%20en_US.pdf</a>                                 |



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