

# 6SE7090-0XX84-0FF5

## SIMOVERT MASTERDRIVES CBP2 PROFIBUS communication module

It connects a SIMOVERT MASTERDRIVES Motion Control unit to a PROFIBUS network through the CBP2 option interface.

### PRODUCT SNAPSHOT

**BRAND**

Siemens

**FAMILY**

SIMOVERT MASTERDRIVES Motion Control commu

**PART**

6SE7090-0XX84-0FF5

**ORIGIN / HS**

Germany / 8537101190

### APTER POWER SALES TEAM

**WHATSAPP / PHONE**

+86 180 3023 5313

**EMAIL**

sales13@apterpower.com

**WEBSITE**

www.apterpower.com



## PRODUCT OVERVIEW

It connects a SIMOVERT MASTERDRIVES Motion Control unit to a PROFIBUS network through the CBP2 option interface.

1

Adds PROFIBUS communication to the installed drive

2

Uses the CBP2 option-module identity

3

Transfers cyclic control and drive status data

4

Integrates the drive with the configured PROFIBUS master

## SYSTEM COMPONENTS

SIMOVERT MASTERDRIVES Motion Control unit

PROFIBUS master and bus cable

approved node address and parameter set

drive commissioning software and diagnostics

### TECHNICAL NOTE

Back up the drive and bus configuration, isolate the converter, preserve the PROFIBUS address and termination, then verify cyclic data, diagnostics and commanded stop behavior before restoring automatic control.

TECHNICAL DATA

| PARAMETER          | VALUE                |
|--------------------|----------------------|
| Article number     | 6SE7090-0XX84-0FF5   |
| Module designation | CBP2                 |
| Equipment class    | Communication module |

| PARAMETER              | VALUE                               |
|------------------------|-------------------------------------|
| Communication protocol | PROFIBUS                            |
| Host platform          | SIMOVER MASTERDRIVES Motion Control |
| Quantity unit          | 1 piece                             |

RELATED PRODUCTS ON APTER POWER

| MODEL                   | SYSTEM ROLE             | APTER POWER PAGE                                  |
|-------------------------|-------------------------|---------------------------------------------------|
| 39SAMCAN-16133-71-04    | Related Siemens product | <a href="#">View 39SAMCAN-16133-71-04 page</a>    |
| 39RTMCAN-16207-61-13    | Related Siemens product | <a href="#">View 39RTMCAN-16207-61-13 page</a>    |
| 39RTMCAN-16207-61-10    | Related Siemens product | <a href="#">View 39RTMCAN-16207-61-10 page</a>    |
| 39RTMCAN-16207-61-11    | Related Siemens product | <a href="#">View 39RTMCAN-16207-61-11 page</a>    |
| 39MBXNAN-16180-1-17     | Related Siemens product | <a href="#">View 39MBXNAN-16180-1-17 page</a>     |
| 39MBXNAN-16180-1-14     | Related Siemens product | <a href="#">View 39MBXNAN-16180-1-14 page</a>     |
| 39EAMCBN-A5E00282025-05 | Related Siemens product | <a href="#">View 39EAMCBN-A5E00282025-05 page</a> |
| 39EAMCBN-16154-93-3     | Related Siemens product | <a href="#">View 39EAMCBN-16154-93-3 page</a>     |

# APPLICATIONS & PRECAUTIONS

## COMMON APPLICATIONS

### PROFIBUS drive integration

Adds PROFIBUS communication to the installed drive

### Legacy motion-control network repair

Uses the CBP2 option-module identity

### Drive node replacement

Transfers cyclic control and drive status data

### Cyclic control-word and status-word verification

Integrates the drive with the configured PROFIBUS master

## PRODUCT PRECAUTIONS

- 1 Verify the complete 6SE7090-0XX84-0FF5 marking and its documented SIMOVERT MASTERDRIVES Motion Control communications position before field work.
- 2 Place the connected equipment in the approved maintenance state before removing 6SE7090-0XX84-0FF5.
- 3 Isolate every applicable power, signal and stored-energy source, then prove a safe state at 6SE7090-0XX84-0FF5.
- 4 Record the installed connectors, terminals, jumpers and channel or node assignments before disconnection.
- 5 Use ESD controls and protect keyed interfaces, edge connectors and exposed electronic assemblies.
- 6 Restore only the approved SIMOVERT MASTERDRIVES Motion Control communications hardware arrangement and configuration after replacement.
- 7 Energize 6SE7090-0XX84-0FF5 in the documented sequence and review local, host and network diagnostics.
- 8 Prove the intended controlled function and retain the final acceptance record before production release.

# ENGINEER FAQ

## Q1 Does 6SE7090-0XX84-0FF5 match SIMOVERT MASTERDRIVES Motion Control unit in a PROFIBUS drive integration installation?

Verify the complete 6SE7090-0XX84-0FF5 marking, the documented SIMOVERT MASTERDRIVES Motion Control communications position and the installed SIMOVERT MASTERDRIVES Motion Control unit before fitting the assembly.

## Q3 Which SIMOVERT MASTERDRIVES Motion Control communications records should be captured before removing 6SE7090-0XX84-0FF5?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with 6SE7090-0XX84-0FF5 before disconnection.

## Q5 Which PROFIBUS master and bus cable condition should be checked when 6SE7090-0XX84-0FF5 reports an abnormal state?

Check the PROFIBUS master and bus cable supply, seating and connection first, then compare channel diagnostics with the recorded 6SE7090-0XX84-0FF5 baseline.

## Q7 What maintenance evidence is required after 6SE7090-0XX84-0FF5 is used for Drive node replacement?

Retain the nameplate record, corrective action, final diagnostics and a controlled drive node replacement functional-test result for 6SE7090-0XX84-0FF5.

## Q2 How should 6SE7090-0XX84-0FF5 be wired when it must add profibus communication to the installed drive?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for 6SE7090-0XX84-0FF5; then continuity-test the affected path.

## Q4 What controlled test confirms that 6SE7090-0XX84-0FF5 can use the cbp2 option-module identity?

Apply the approved field or simulated stimulus, observe the SIMOVERT MASTERDRIVES Motion Control communications indication and confirm the intended response without bypassing the normal interlocks.

## Q6 Can 6SE7090-0XX84-0FF5 be moved directly into Legacy motion-control network repair without validating drive commissioning software and diagnostics?

No. Confirm the drive commissioning software and diagnostics, revision, connection scheme and SIMOVERT MASTERDRIVES Motion Control communications configuration before transferring 6SE7090-0XX84-0FF5 to that duty.

## Q8 How should 6SE7090-0XX84-0FF5 be returned to service in Cyclic control-word and status-word verification?

Restore power under control, verify transfers cyclic control and drive status data, exercise the intended signal path and release 6SE7090-0XX84-0FF5 only after the SIMOVERT MASTERDRIVES Motion Control communications remains in its approved operating state.

**SOURCE** Siemens SiePortal product record | 6SE7090-0XX84-0FF5

+86 180 3023 5313 | sales13@apterpower.com | www.apterpower.com