8C-PCNT03

Series 8 C300 Controller

CONTROLLED ENGINEERING COPY

Back up the approved Control Builder project, verify the 8C-TCNTA1 IOTA and supported Experion release, then prove FTE, I/O links and redundancy before production release.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	8C-PCNT03
Manufacturer part	8C-PCNT03
Hardware type	8C-PCNT03; coated
System family	Experion PKS C300

1 PLAN — 2 ISOLATE — 3 CONNECT — 4 CONFIGURE — 5 TEST

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01 PRE-INSTALLATION PLAN

1. Verify the complete 8C-PCNT03 marking and its assigned C300 controller position before work.
2. Place the connected process and control strategy in the approved maintenance state.
3. Isolate the applicable cabinet supply and I/O-link and FTE field energy before disconnecting conductors.
4. Record terminal numbers, channel assignments, polarity, shields and configured ranges before removal.
5. Use ESD controls and protect the backplane connector, terminal hardware and coated electronics.

MATCHED HARDWARE

- 8C-TCNTA1 controller IOTA
- Series 8 I/O modules
- FTE network
- Experion server and Control Builder project

INSTALLATION CONTROL RECORD

CONTROL ITEM	REQUIRED RECORD
Identity	8C-PCNT03 / 8C-PCNT03 recorded
Physical interface	8C-TCNTA1 controller IOTA
Companion check	Series 8 I/O modules
Functional proof	Executes configured Control Builder strategies
Application test	Continuous-process control

02 WIRING & INTERFACE CHECKS

CHECK ITEM	REQUIRED VALUE
Controller model	8C-PCNT03; coated
Program memory	16 MB
Processor	Single core
Supported Experion releases	R110, R120, R500, R51x, R520
Execution units	5500
Tagged objects	4095
Memory units	16384
Control execution period	50 to 60000 ms
CPU reserved capacity	20%
I/O links	2
I/O link rate	750 kbit/s
I/O units per controller	80
I/O units per link	40
Maximum I/O	2560

FIELD NOTE

Back up the approved Control Builder project, verify the 8C-TCNTA1 IOTA and supported Experion release, then prove FTE, I/O links and redundancy before production release.

03 COMMISSIONING WORKFLOW

1. Confirm 8C-PCNT03 and part number 8C-PCNT03 against the installed record.
2. Verify the physical connection to 8C-TCNTA1 controller IOTA.
3. Apply the documented technical values for controller model.
4. Exercise the function: executes configured control builder strategies.
5. Run a controlled test for continuous-process control.
6. Record the final state, diagnostics and operator acceptance before release.

COMMISSIONING ACCEPTANCE EVIDENCE

EVIDENCE ITEM	ACCEPTANCE CONDITION
Identity	8C-PCNT03 / 8C-PCNT03 recorded
Physical interface	8C-TCNTA1 controller IOTA
Companion check	Series 8 I/O modules
Functional proof	Executes configured Control Builder strategies
Application test	Continuous-process control

04 RETURN-TO-SERVICE RECORD

- [ ] Confirm the installed 8C-TCNTA1 IOTA and carrier arrangement against the approved project.
- [ ] Restore power in a controlled sequence and clear only diagnostics created by the maintenance activity.
- [ ] Complete project-load, I/O-link, FTE and redundancy acceptance tests and retain the measured result before returning the channel to automatic service.
- [ ] Confirm the intended process response before normal operation.

VERIFICATION RECORD

PRODUCT IDENTITY	8C-PCNT03
INSTALLED POSITION	Documented Experion PKS C300 position
VERIFICATION METHOD	Controlled inspection and functional test
RELEASE RECORD	Final diagnostic state retained before service

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
FC-QPP-0002-V1-2	Related industrial automation product	View FC-QPP-0002-V1-2 page
MC-PAOY22-80363969-150	Related industrial automation product	View MC-PAOY22-80363969-150 page
2MLF-RD8A	Related industrial automation product	View 2MLF-RD8A page
CC-PAON01	Related industrial automation product	View CC-PAON01 page
10201-2-1	Related industrial automation product	View 10201-2-1 page
CC-PDIL01-51405040-176	Related industrial automation product	View CC-PDIL01-51405040-176 page
FC-BKM-0001-V1-1	Related industrial automation product	View FC-BKM-0001-V1-1 page
51196694-350	Related industrial automation product	View 51196694-350 page

SOURCE IDENTIFIERS

Honeywell Series 8 Controller and I/O Specification

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