

UNITROL EXCITATION SYSTEMS

Product Data Sheet

3BHE041343R0102 PCD530 A102

communication control module

FUNCTION communication control module	FAMILY UNITROL Excitation Systems	ORIGIN Switzerland	WEIGHT 1.70 kg
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UNITROL Excitation Systems 3BHE041343R0102 PCD530 A102 is a communication control module for the UNITROL Excitation Systems. The values below are limited to the exact documented article.

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VERIFIED TECHNICAL DATA

Operating Temperature	-25°C to +70°C
Storage Temperature	-40°C to +85°C
Humidity	5-95% RH (non-condensing)
Vibration Resistance	2G (5-150Hz)
Processor	Dual-core PowerPC @ 1.2GHz
Memory	1GB DDR3, 8GB Flash
Real-Time Clock	Battery-Backed (10yr life)
Power Supply	24V DC (±20%)
Power Consumption	12W (typical)
Message Throughput	10,000 packets/sec

Latency	<50µs (PRP mode)
Max Connections	256 TCP/IP sessions
Data Buffer	32MB
Exact Article Code	3BHE041343R0102 PCD530 A102
Board Designation	PCD530 A102

- Integrate gas treatment with Communication Control: As part of the separators, contactors and regeneration skids, 3BHE041343R0102 PCD530 A102 performs its assigned control role as a communication control module. During process upset, the system uses this function to stabilize vessel and regeneration conditions, helping it restore product specification after the disturbance.
- Align filtration backwash with Communication Control: For the coordinated operation of the filter cells and backwash valves, 3BHE041343R0102 PCD530 A102 provides its specified system function as a communication control module. During filter loading, the system uses this function to sequence isolation, drain and rinse paths, helping it return the filter to production in a known state.
- Stabilize reactor charging with Communication Control: At the control layer of the feed valves, vessels and agitators, 3BHE041343R0102 PCD530 A102 supports the configured automation role as a communication control module. During batch initiation, the system uses this function to sequence the material path against vessel readiness, helping it begin the reaction from a verified state.

Match 3BHE041343R0102 PCD530 A102 to the installed UNITROL Excitation Systems, complete wiring, mating hardware, revision and approved configuration. A similar article number does not establish direct interchangeability.

[ABB UNITROL Excitation Systems documentation](#)

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