

ABB ADVANT OCS AND ADVANT-800XA

Product Data Sheet

3BHE041576R3011 PPD517A3011

excitation central processing unit

FUNCTION	FAMILY	ORIGIN	WEIGHT
excitation central processing unit	ABB Advant OCS and Advant-800xA	Switzerland	1.48 kg

ABB Advant OCS and Advant-800xA 3BHE041576R3011 PPD517A3011 is a excitation central processing unit for the ABB Advant OCS and Advant-800xA. The values below are limited to the exact documented article.

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VERIFIED TECHNICAL DATA

Operating Temperature	0°C to +60°C
Storage Temperature	-40°C to +85°C
Humidity	5-95% non-condensing
Processor Type	Dual PowerPC-based
Clock Speed	400 MHz (each core)
RAM	256 MB
Flash Memory	128 MB
Control Cycle Time	<1 ms
Analog Inputs	16 channels (0-10V, 4-20mA)
Digital Inputs	32 channels (24V DC)

Digital Outputs	24 channels (relay contacts)
Power Supply	24V DC ($\pm 10\%$)
Power Consumption	25W (typical)
Isolation Voltage	2000V AC
Exact Article Code	3BHE041576R3011 PPD517A3011

- Coordinate filtration backwash with Excitation Central: For the coordinated operation of the filter cells and backwash valves, 3BHE041576R3011 PPD517A3011 supports the configured automation role as a excitation central processing unit. 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.
- Synchronize ingredient dosing with Excitation Central: During operation of the batch vessels and dosing valves, 3BHE041576R3011 PPD517A3011 performs its assigned control role as a excitation central processing unit. During batch release, the system uses this function to align measured quantities with the active batch step, helping it hold dosing accuracy through the cycle.
- Synchronize generator excitation with Excitation Central: At the control layer of the field circuits and voltage regulation, 3BHE041576R3011 PPD517A3011 serves its documented function as a excitation central processing unit. During load change, the system uses this function to adjust the assigned regulation path from operating feedback, helping it hold the electrical variable at its commanded target.

Match 3BHE041576R3011 PPD517A3011 to the installed ABB Advant OCS and Advant-800xA, complete wiring, mating hardware, revision and approved configuration. A similar article number does not establish direct interchangeability.

[ABB ABB Advant OCS and Advant-800xA documentation](#)

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