

DATA SHEET - ABB AC 700F CONTROLLER

AC 700F

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Detailed data of the CPU (PM 783F)

Processor	Freescale PowerPC
Program memory (battery backed up)	2 MB SRAM
Internal memory	8 MB SDRAM, 4 MB FLASH ROM
Processing time for 1000 instructions	1.667 ms for binary instructions 2.322 ms for word instructions 3.125 ms for floating point instructions
Max. number of I/O modules per CPU	8
Power supply	CP-C 24 / 5.0, power supply, 5 A / 24 VDC output CP-C 24 / 10.0, power supply, 10 A / 24 VDC output
Max. power dissipation within the module	10 W
Current consumption from 24 VDC	80 mA (max)
Inrush current at 24 VDC	1 A ² s
Data backup source	Lithium battery
Data buffering time at 25 °C / 77 °F	Approximately 1.5 years
Battery low indication	Warning indication issued about 2 weeks before the battery charge becomes critical
Real-time clock, with battery backup	Yes
Multitasking program execution	
Cyclic (equidistant)	8 tasks
Cyclic (as fast as possible)	1 PLC type task
Event driven	Upon any of these events: *Run, Stop, Warm start, Cold start, Error*

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Dimensions

Width x height x depth (CPU without the Terminal Base)	67.5 x 76 x 54 mm / 2.66 x 2.99 x 2.13 inches
Weight (CPU without Terminal Base)	150 g / 5.29 oz
Mounting position	horizontal or vertical with horizontal or vertical with de-rating (50 % output load, reduction of maximum temperature to 40°C/ 104°F)

Certificates

CE

GL

UL

ISO 9001

The Class 1 Div 2 certificate is in preparation

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Profibus Module CM 772F

Protocol	PROFIBUS DP Master V0/V1
Fieldbus connector	D-SUB, 9-pole, female
Internal power supply	Through the coupler interface of the Terminal Base
LEDs	Five for status display
Transmission rate	9.6 kBit/s to 12 MBit/s
Processor	EC1
Clock frequency	48 MHz
Usable CPU	PM 783F
Coupler interface	Dual-port memory, 8 kByte
Current consumption from 24 V DC power supply at the Terminal Base of the CPU	typ. 60 mA
Internal RAM memory (EC1)	256 kByte
External Flash memory	512 kByte (firmware)
Status display	PWR, RDY, RUN, STA, ERR
Weight	Approx. 150 g (5.29 oz)

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Terminal Base TB 711F (for the CPU PM 783F)

Connection of the 24 V DC process voltage	with a 5-pole removable terminal block
Slots	1 CPU, 1 Communication module (Not Used Currently)
Interfaces	Field I/O: 1 for I/O-Bus Serial ports: 2 ("SER" (COM1), "DIAG" (COM2)) Networking: 1 Ethernet (RJ45) Profibus Master port
Weight	175 g / 6.17 oz.
Dimensions (Width x height x depth; with CPU inserted)	95.5 x 135 x 75 mm / 3.75 x 5.31 x 2.95 inches

Dummy Coupler Module TA 724F (only needed when not using Profibus)

Use	Empty module, to protect an unused coupler slot from dust and touch when AC 700F is used without a Profibus Master module CM 772F
Mounting	On CPU Terminal Base TB 711F
Weight	50 g / 1.76 oz.
Dimensions	135 mm x 28 mm x 62 mm / 5.31 x 1.1 x 2.44 inches

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