MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

SIEMENS

6DD1607-0AA2

FM 458-1 DP APPLICATION MODULE

Used with the applicable SIMATIC S7-400 configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Siemens official documentation for 6DD1607-0AA2

SIEMENS

Data sheet 6DD1607-0AA2



SIMATIC S7-400, FM458-1 DP application group for SIMATIC S7-400

Supply voltage	
Rated value (DC)	
● 5 V DC	Yes
● 24 V DC	Yes
permissible range (ripple included), lower limit (DC)	4.8 V
permissible range (ripple included), upper limit (DC)	5.25 V
Input current	
Current consumption, typ.	1.5 A
Current consumption, max.	3 A
Memory	
Backup	
● present	Yes; SRAM
Battery	
Backup battery	
● Backup current, max.	15 µA
Time of day	
Clock	
● Hardware clock (real-time)	Yes
● Resolution	500 ms
Digital inputs	
Number of digital inputs	8; Connector X2
Input voltage	
● Rated value (DC)	24 V
● for signal "0"	-1 to +6V
● for signal "1"	13.5 to 33V
Input current	
● for signal "0", max. (permissible quiescent current)	0 mA
● for signal "1", typ.	3 mA; at 24 V
Input delay (for rated value of input voltage)	
for standard inputs	
— at "0" to "1", max.	5 µs
Protocols	
PROFIBUS DP	
Services	
— Equidistance	Yes; With connection to interrupt tasks
— Direct data exchange (slave-to-slave communication)	Yes
Interrupts/diagnostics/status information	
Alarms	Yes

Subject to change without notice
© Copyright Siemens

Potential separation	
Potential separation digital inputs	
● Potential separation digital inputs	No; only via optional interface modules
Weights	
Weight, approx.	1 000 g

Classifications

	Version	Classification
eClass	14	27-24-22-05
eClass	12	27-24-22-05
eClass	9.1	27-24-22-05
eClass	9	27-24-22-05
eClass	8	27-24-22-05
eClass	7.1	27-24-22-05
eClass	6	27-24-22-05
ETIM	10	EC001422
ETIM	9	EC001422
ETIM	8	EC001422
ETIM	7	EC001422
IDEA	4	3567
UNSPSC	15	32-15-17-05

Approvals / Certificates

General Product Approval

Miscellaneous | China RoHS

General Product Approval | **EMV** | **For use in hazardous locations**

Miscellaneous

For use in hazardous locations | **Maritime application**

CCC-Ex

last modified: 7/1/2025

Subject to change without notice
© Copyright Siemens