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Data sheet 6ES7138-7EA01-0AA0

	SIMATIC, power supply module 24 V DC for ET200iSP, Ex db eb [ib] IIC T4 Gb, Ex db eb [ib] I Mb
General information	
Product type designation	PS 24 V DC
Redundancy	
● Redundancy capability	Yes
Supply voltage	
Type of supply voltage	DC
Rated value (DC)	24 V
permissible range, lower limit (DC)	19.2 V
permissible range, upper limit (DC)	30 V
Reverse polarity protection	Yes
external protection for power supply lines (recommendation)	protection with 6 A miniature circuit breaker and tripping characteristic C (per ET 200iSP station)
Mains buffering	
● bridging time for backplane bus, min.	0.25 ms
● buffering time for powerbus, min.	0.25 ms
● buffering time for IM 152 CPU, min.	15 ms
Input current	
from supply voltage L+, max.	4 A
Output voltage	
Type of output voltage	DC
Output current	
Current output, max.	5 A
horizontal installation	
● up to 70 °C, max.	5 A
vertical installation	
● up to 50 °C, max.	5 A
Power loss	
Power loss, typ.	20 W; for more information on power loss, see "Limitation of connectable electronic modules" section
Interrupts/diagnostics/status information	
Status indicator	Yes
Alarms	No
Diagnoses	
● Diagnostic information readable	Yes; via IM 152
Diagnostics indication LED	
● Group error SF (red)	No
Ex(i) characteristics	
maximum values for connecting terminals for gas group IIC	
● Um (voltage at non-intrinsically safe connecting terminals), max.	250 V; for more AC/DC information, see certificate IECEx KEM 05.0004
Potential separation	
primary/secondary	Yes
between supply voltage and electronics	Yes
Isolation	
tested with	
● between supply voltage and output voltage	600 V DC
Degree and class of protection	
IP degree of protection	IP30
Standards, approvals, certificates	
CE mark	CE 0344

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UKCA mark	DEKRA 21UKEX0027 Importer UK: Siemens plc Manchester M20 2UR
cULus	LISTED E334384
FM approval	CLASSIFIED 3025852
BIS	Yes
Suitable for safety functions	Yes
INMETRO certificate	UL-BR 12.0051
reference designation according to IEC 81346-2 (2009)	K
Use in hazardous areas	
● ATEX marking	II 2 G Ex db eb [ib] IIC T4 Gb I M2 Ex db eb [ib] I Mb
● ATEX certificate	KEMA 04 ATEX 2263
● IECEx	IECEx KEM 05.0004
● CCC Ex	2020322310002880
● EAC Ex	1Ex d e [ib] IIC T4 Gb PII Ex d e [ib Mb] I Mc
● FM marking	Class I, Zone 1 AEx d e [ib] IIC T4 NI, Class I, DIV.2, GP. A,B,C,D T4 DIP, Class II, III, GP. E,F,G
● Explosion protection category for gas	ATEX gas explosion protection, Zone 1
● Explosion protection category for dust	ATEX dust explosion protection, Zone 21 always install in corresponding enclosure
● associated equipment (Ex ia)	No
● associated equipment (Ex ib)	Yes
Marine approval	
● Germanischer Lloyd (GL)	Yes
● American Bureau of Shipping (ABS)	Yes
● Bureau Veritas (BV)	Yes
● Det Norske Veritas (DNV)	Yes
Ambient conditions	
Ambient temperature during operation	
● min.	-20 °C
● max.	70 °C
Dimensions	
Width	60 mm
Height	190 mm
Depth	136.5 mm
Weights	
Weight, approx.	2 700 g

Classifications

	Version	Classification
eClass	16	27-24-26-11
eClass	14	27-24-26-11
eClass	12	27-24-26-11
eClass	9.1	27-24-26-11
eClass	9	27-24-26-11
eClass	8	27-24-26-11
eClass	7.1	27-24-26-11
eClass	6	27-24-26-11
ETIM	10	EC002583
ETIM	9	EC002583
ETIM	8	EC002583
ETIM	7	EC002583
IDEA	4	3575
UNSPSC	15	32-15-17-06

Approvals / Certificates

General Product Approval	For use in hazard-ous locations

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Miscellaneous

For use in hazardous locations

FM

CCC-Ex

Miscellaneous

For use in hazardous locations

Miscellaneous

Maritime application

Maritime application

NK / Nippon Kaiji Ky-okai

Environment

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