



Figure similar

SIMATIC, power supply module 120/230 V AC for ET200iSP, Ex db eb [ib] IIC T4 Gb, Ex db eb [ib] I Mb

General information	
Product type designation	PS 120/230 V AC
Redundancy	
• Redundancy capability	Yes
Supply voltage	
Type of supply voltage	AC
Rated value (AC)	230 V; 120/230 V AC
permissible range, lower limit (AC)	85 V
permissible range, upper limit (AC)	264 V
external protection for power supply lines (recommendation)	protection with 6 A miniature circuit breaker and tripping characteristic C (per ET 200iSP station)
Line frequency	
• permissible range, lower limit	47 Hz
• permissible range, upper limit	63 Hz
Mains buffering	
• bridging time for backplane bus, min.	20 ms
• buffering time for powerbus, min.	20 ms
• buffering time for IM 152 CPU, min.	20 ms
Input current	
Inrush current, max.	28 A; at 120/230 V AC
from supply voltage L1, max.	1.04 A; at rated voltage 230 VAC:0.45A at rated voltage 120 VAC:0.75A
At 50 Hz AC, max.	1.04 A
At 60 Hz AC, max.	1.04 A
Power loss	
Power loss, typ.	5 W; 5 W + 1.2 x total power loss of the electronics modules
Power loss, max.	21.3 W
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.	264 V; for more AC/DC information, see certificate IECEx KEM 09.0070
Potential separation	

primary/secondary	Yes	
between supply voltage and electronics	No	
<b>Degree and class of protection</b>		
IP degree of protection	IP30	
<b>Standards, approvals, certificates</b>		
CE mark	CE 0344	
UKCA mark	DEKRA 21UKEX0033 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 12.0066	
reference designation according to IEC 81346-2 (2009)	K	
<b>Use in hazardous areas</b>		
<ul style="list-style-type: none"> <li>• ATEX marking</li> <li>• ATEX certificate</li> <li>• IECEx</li> <li>• CCC Ex</li> <li>• EAC Ex</li> <li>• FM marking</li> <li>• Explosion protection category for gas</li> <li>• Explosion protection category for dust</li> <li>• associated equipment (Ex ia)</li> <li>• associated equipment (Ex ib)</li> </ul>	<p>II 2 G Ex db eb [ib] IIC T4 Gb I M2 Ex db eb [ib] I Mb</p> <p>KEMA 09 ATEX 0156</p> <p>IECEX KEM 09.0070</p> <p>2020322303002989</p> <p>1Ex d e [ib] IIC T4 Gb PII Ex d e [ib Mb] I Mc</p> <p>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</p> <p>ATEX gas explosion protection, Zone 1</p> <p>ATEX dust explosion protection, Zone 21 always install in corresponding enclosure</p> <p>No</p> <p>Yes</p>	
<b>Marine approval</b>		
<ul style="list-style-type: none"> <li>• Germanischer Lloyd (GL)</li> <li>• American Bureau of Shipping (ABS)</li> <li>• Bureau Veritas (BV)</li> <li>• Det Norske Veritas (DNV)</li> </ul>	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>	
<b>Ambient conditions</b>		
<b>Ambient temperature during operation</b>		
<ul style="list-style-type: none"> <li>• min.</li> <li>• max.</li> </ul>	<p>-20 °C</p> <p>70 °C</p>	
<b>Dimensions</b>		
Width	60 mm	
Height	190 mm	
Depth	136.5 mm	
<b>Weights</b>		
Weight, approx.	2 700 g	
<b>Classifications</b>		
	<b>Version</b>	<b>Classification</b>
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
<b>Approvals / Certificates</b>		

General Product Approval

For use in hazardous locations

[Miscellaneous](#)



For use in hazardous locations



[FM](#)



[Miscellaneous](#)



[CCC-Ex](#)

For use in hazardous locations

Maritime application



[Miscellaneous](#)



Environment



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