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Data sheet 6ES7505-0KA01-0AB0



Figure similar

SIMATIC S7-1500, system power supply PS 25 W 24 V DC, supplies the backplane bus of S7-1500 with operating voltage, integrated power meter function

General information	
Product type designation	PS 25W 24VDC
HW functional status	FS01
Firmware version	V2.0
● FW update possible	Yes
Product function	
● Voltage measurement	Yes; 19.2 ... 28.8 V DC (±2.5 %)
● Current measurement	Yes; 0 ... 1.67 A (±2.5 %)
● Power measurement	Yes; 0 ... 25 W (± 5 %)
● I&M data	Yes
Engineering with	
● STEP 7 TIA Portal configurable/integrated from version	STEP 7 V18 or higher with HSP 0458
● STEP 7 configurable/integrated from version	STEP 7 V5.7 or higher SP1 or higher
● PROFINET from GSD version/GSD revision	V2.45
Redundancy	
● Redundancy capability	Yes
— for uprating	Yes
Installation type/mounting	
Rail mounting	Yes
Supply voltage	
Rated value (DC)	24 V
permissible range, lower limit (DC)	19.2 V; Static 19.2 V, dynamic 18.5 V
permissible range, upper limit (DC)	28.8 V; Static 28.8 V, dynamic 30.2 V
Reverse polarity protection	Yes
Short-circuit protection	Yes
Mains buffering	
● Mains/voltage failure stored energy time	20 ms
Input current	
Current consumption, max.	1.6 A
Rated value at 24 V DC	1.3 A
Output current	
Short-circuit protection	Yes
Power	
Infeed power to the backplane bus	25 W
Power loss	
Power loss at nominal rating conditions	6.2 W
Interrupts/diagnostics/status information	
Status indicator	Yes

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Potential separation	
primary/secondary	Yes
Isolation	
Isolation tested with	707 V DC (type test)
EMC	
Interference immunity against voltage surge	
● Interference immunity on supply lines acc. to IEC 61000-4-5	Yes; ±0.5 kV (acc. to IEC 61000-4-5; 2014; surge line to line), ±1 kV (acc. to IEC 61000-4-5; 2014; surge line to earth), no external protective circuit required
Degree and class of protection	
IP degree of protection	20
Equipment protection class	III
Security	
signed firmware update	Yes
Ambient conditions	
Ambient temperature during operation	
● min.	-30 °C
● max.	60 °C
● horizontal installation, min.	-30 °C
● horizontal installation, max.	60 °C
● vertical installation, min.	-30 °C
● vertical installation, max.	40 °C
Ambient temperature during storage/transportation	
● min.	-40 °C
● max.	70 °C
Altitude during operation relating to sea level	
● Installation altitude above sea level, max.	5 000 m; Restrictions for installation altitudes > 2 000 m, see manual
Dimensions	
Width	35 mm
Height	147 mm
Depth	129 mm
Weights	
Weight, approx.	350 g

Classifications

	Version	Classification
eClass	16	27-24-22-09
eClass	14	27-24-22-09
eClass	12	27-24-22-09
eClass	9.1	27-24-22-09
eClass	9	27-24-22-09
eClass	8	27-24-22-09
eClass	7.1	27-24-22-09
eClass	6	27-24-22-09
ETIM	10	EC000599
ETIM	9	EC000599
ETIM	8	EC000599
ETIM	7	EC000599

Approvals / Certificates

General Product Approval

Miscellaneous | Manufacturer Declaration | UL | CE EG-Konf. | UKCA | BIS CRS

General Product Approval	EMV

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For use in hazardous locations

IECEx | UL | Miscellaneous | ATEX | FM | CCC-Ex

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