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Data sheet 6ES7505-0RA00-0AB0



Figure similar

SIMATIC S7-1500, System power supply PS 60W 24/48/60 V DC, supplies the backplane bus of the S7-1500 with operating voltage

General information	
Product type designation	PS 60 W 24/48/60 V DC
HW functional status	from FS04
Firmware version	from V1.0.0
Engineering with	
● STEP 7 TIA Portal configurable/integrated from version	V12 / V12
● STEP 7 configurable/integrated from version	V5.5 SP3 or higher
Supply voltage	
Rated value (DC)	24 V / 48 V / 60 V
permissible range, lower limit (DC)	19.2 V; Static 19.2 V, dynamic 18.5 V
permissible range, upper limit (DC)	72 V; Static 72 V, dynamic 75.5 V
Reverse polarity protection	Yes
Short-circuit protection	Yes
Mains buffering	
● Mains/voltage failure stored energy time	20 ms
Input current	
Rated value at 24 V DC	3 A
Rated value at 48 V DC	1.5 A
Rated value at 60 V DC	1.2 A
Output current	
Short-circuit protection	Yes
Power	
Infeed power to the backplane bus	60 W
Power loss	
Power loss at nominal rating conditions	12 W
Interrupts/diagnostics/status information	
Status indicator	Yes
Potential separation	
primary/secondary	Yes; Electrical isolation for 230 V AC (reinforced isolation)
Isolation	
Isolation tested with	2 500 V DC/2 s (routine test)
EMC	
Interference immunity against voltage surge	
● Interference immunity on supply lines acc. to IEC 61000-4-5	Yes; ±1 kV (acc. to IEC 61000-4-5; 1995; surge symm.), ±2 kV (acc. to IEC 61000-4-5; 1995; surge asymm.), no external protective circuit required
Degree and class of protection	
Equipment protection class	I, with protective conductor
Ambient conditions	

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Ambient temperature during operation	
● min.	-25 °C; up to FS04: 0 °C
● max.	60 °C
● horizontal installation, min.	-25 °C; up to FS04: 0 °C
● horizontal installation, max.	60 °C
● vertical installation, min.	-25 °C; up to FS04: 0 °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.	2 000 m

Dimensions

Width	70 mm
Height	147 mm
Depth	129 mm

Weights

Weight, approx.	600 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
IDEA	4	3575
UNSPSC	15	32-15-17-06

Approvals / Certificates

General Product Approval

Miscellaneous | Manufacturer Declaration

General Product Approval

BIS CRS | China RoHS | Manufacturer Declaration

General Product Approval	EMV	For use in hazardous locations		
			FM	FM

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For use in hazardous locations					
CCC-Ex	IECEx	ATEX	Type Examination Certificate	Miscellaneous	UKCA

For use in hazardous locations	Maritime application				
CCC-Ex	ABS	BUREAU VERITAS	DNV	LRS	NK / Nippon Kaiji Kyokai

Maritime application			
RINA	RMRS	CCS (China Classification Society)	KR (Korean Register of Shipping)

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