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Data sheet 6ES7407-0RA02-0AA0



Figure similar

SIMATIC S7-400, Power supply PS407, 20 A, wide range, UC 120/230V, 5 V DC/20 A

Supply voltage	
Rated value (DC)	
● 120 V DC	Yes
● 230 V DC	Yes
Rated value (AC)	
● 120 V AC	Yes
● 230 V AC	Yes
Line frequency	
● Rated value 50 Hz	Yes
● Rated value 60 Hz	Yes
● permissible range, lower limit	47 Hz
● permissible range, upper limit	63 Hz
Mains buffering	
● Mains/voltage failure stored energy time	20 ms
● Mains buffering according to NAMUR recommendation	Yes
Input current	
Rated value at 120 V DC	1.4 A
Rated value at 230 V DC	0.7 A
Rated value at 120 V AC	1.4 A
Rated value at 230 V AC	0.7 A
Inrush current, max.	88 A; Full width at half maximum 1.1 ms
Leakage current, max.	5 mA
Output voltage	
Type of output voltage	DC
Rated value (DC)	
● 5 V DC	Yes
● 24 V DC	Yes
Output current	
for backplane bus (5 V DC), max.	20 A; no base load required
for backplane bus (24 V DC), max.	1 A; idling-proof
Short-circuit protection	Yes
Power	
Active power input, typ.	158 W
Power loss	
Power loss, typ.	35 W
Battery	
Backup battery	
● Backup battery (optional)	Yes; 1x lithium AA; 3.6 V / 2.2 Ah

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Hardware configuration	
Slots	
● required slots	2
Potential separation	
primary/secondary	Yes
Isolation	
Overvoltage category	II
EMC	
Compliance with line harmonic distortion limits	
● Compliance with line harmonic distortion acc. to IEC 61000-3-2, IEC 61000-3-3	Yes
Degree and class of protection	
Equipment protection class	I, with protective conductor
Standards, approvals, certificates	
FM approval	Yes; Ta: 0 °C to 70 °C T4
BIS	Yes
Ambient conditions	
Ambient temperature during operation	
● min.	0 °C
● max.	60 °C
Connection method	
Design of electrical connection	3x 1.5 mm², solid or stranded wire with end sleeve, external diameter 3 mm to 9 mm
Dimensions	
Width	50 mm
Height	290 mm
Depth	217 mm
Weights	
Weight, approx.	1 300 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

General Product Approval	EMV	For use in hazard-ous locations

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China RoHS | Miscellaneous | Manufacturer Declaration | RCM | RCM | FM

Maritime application

ABS | BUREAU VERITAS | DNV | LRS | NK / Nippon Kaiji Kyokai | PRS

Maritime application | **Environment**

RINA | RMRS | CCS (China Classification Society) | EPD

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