

MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

SIEMENS

6ES7405-0RA01-0AA0

PS 405 20 A DC POWER SUPPLY MODULE

Used with the applicable SIMATIC S7-400 configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Official manufacturer documentation applicable to 6ES7405-0RA01-0AA0

6ES7405-0RA01-0AA0

PS405 20A, 24/48/60V DC, 5V/20A DC

Technical data

General information	SIMATIC S7-400, PS 405 POWER SUPPLY, WIDE RANGE 20A, 24/48/60V DC, 5V/20A DC
Product type designation	PS 405
Supply voltage	
Rated value (DC)	
• 24 V DC	Yes
• 48 V DC	Yes
• 60 V DC	Yes
permissible range, lower limit (DC)	19.2 V; Dynamic 18.5 V
permissible range, upper limit (DC)	72 V; dynamic 75.5 V
Mains buffering	
• Mains/voltage failure stored energy time	20 ms
• Mains buffering according to NAMUR recommendation	Yes
Input current	
Rated value at 24 V DC	7.3 A
Rated value at 48 V DC	3.45 A
Rated value at 60 V DC	2.75 A
Inrush current, max.	56 A; Full width at half maximum 1.5 ms
Output voltage	
Rated value (DC)	
• 5 V DC	Yes
• 24 V DC	Yes
Output current	
for backplane bus (5 V DC), max.	20 A; 200 mA base load required
for backplane bus (24 V DC), max.	1 A; idling-proof
Short-circuit protection	Yes
Power	
Active power input, typ.	175 W
Power loss	
Power loss, typ.	51 W
Battery	
Backup battery	
• Backup battery (optional)	Yes; 2x lithium AA; 3.6 V / 1.9 Ah
Hardware configuration	
Slots	
• required slots	3
Potential separation	
primary/secondary	Yes
Degree and class of protection	
Equipment protection class	I, with protective conductor
Standards, approvals, certificates	
FM approval	Yes; up to 40 °C: T4
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C
• max.	60 °C
Connection method	
Design of electrical connection	3x 1.5 mm ² , solid or stranded wire with end sleeve, external diameter 3 mm to 9 mm
Dimensions	
Width	75 mm
Height	290 mm
Depth	217 mm
Weights	
Weight, approx.	2 200 g
last modified:	07/01/2019
Last changes: 07/09/2019	