

Schneider Series Service Manual

TSXPSY2600M

1. Description

The TSXPSY2600M from Schneider Electric is a power supply module designed for TSX Micro PLCs. This unit supports primary voltage input of 24 V DC, with an operational capacity to handle inrush currents of up to 100 A at this voltage level.

2. Specifications

Specification	Value
Manufacturer	Schneider Electric
Product	Line TSX Micro PLCs
Part	Number TSXPSY2600M
EAN	3389110725605
Weight	1.00 lbs (0.45 kg)
Operating	Altitude 0 to 2000 meters
Protective	Treatment TC
IP	Degree of Protection IP20
Secondary	Power 15 W at 5 V DC, 15 W at 24 V DC
Total	Useful Secondary Power 30 W
Inrush	Current 100 A at 24 V
Input	Current ≤ 1500 mA at 24 V
Primary	Voltage 24 V DC (19.2 to 30 V)
Module	Type Power Supply Module
Current	at Secondary Voltage 0.6 A at 24 V DC (relay power supply), 3 A at 5 V DC
Protection	Type Internal fuse (3.5 A, 5 x 20 mm, time-delayed), overload protection, overvoltage protection, short-circuit protection
Local	Signalling 1 LED for presence of voltages (green), 1 LED for battery fault (red)
Operating	Temperature 0 to 60 °C
Storage	Temperature -25 to 70 °C
Relative	Humidity 10 to 95% without condensation for operation, 5 to 95% without condensation for storage

3. Product Information

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Technical specifications for TSXPSY2600M

Manufacturer Schneider Electric

Product Line TSX Micro PLCs

Part Number TSXPSY2600M

EAN 3389110725605

Weight 1.00 lbs (0.45 kg)

Operating Altitude 0 to 2000 meters

Protective Treatment TC

IP Degree of Protection IP20

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Total Useful Secondary Power 30 W

Inrush Current 100 A at 24 V

Input Current $\leq$ 1500 mA at 24 V

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Module Type Power Supply Module

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Local Signalling 1 LED for presence of voltages (green), 1 LED for battery fault (red)

Operating Temperature 0 to 60 °C

Storage Temperature -25 to 70 °C

Relative Humidity 10 to 95% without condensation for operation, 5 to 95% without condensation for storage

Description

The Schneider Electric TSXPSY2600M is a power supply module tailored for the TSX Micro PLC series. It can effectively operate at an altitude of 0 to 2000 meters. This unit features an IP20 rating, making it suitable for areas without exposure to moisture or dust. Designed for robust performance, this device delivers a primary input voltage of 24 V DC, within a range of 19.2 to 30 V.

The module outputs secondary power at 15 W for both 5 V DC and 24 V DC, cumulating to a total useful secondary power of 30 W. The TSXPSY2600M allows a secondary current of 0.6 A at 24 V DC and 3 A at 5 V DC. It can manage an inrush current of 100 A at 24 V. The input current is capped at 1500 mA at 24 V.

For safety, this power supply module incorporates several protection features. It includes an internal time-delayed fuse rated at 3.5 A, overload protection, overvoltage prevention, and short-circuit protection to safeguard the connected equipment.

Local signaling is facilitated by two LEDs, with a green LED indicating voltage presence and a red LED signaling battery faults. The module operates reliably within a temperature range of 0 to 60 °C and can be stored in temperatures between -25 and 70 °C. Additionally, it maintains functionality in relative humidity levels of 10 to 95% (without condensation for operation) and can be safely stored under conditions of 5 to 95% humidity (also without condensation). Overall, the TSXPSY2600M serves as a dependable power source for various applications.

Range of Product

Modicon Premium Automation platform

Product or Component Type

Power supply module

Complementary

Primary voltage

100...240 V AC 85...264 V

Network Frequency

50/60 Hz

Network frequency limits

47...63 Hz

Input current

300 mA 240 V

500 mA 100 V

Inrush current

37 A 100 V

75 A 240 V

I²t on activation

0.63 A².s 100 V

2.6 A².s 240 V

It on activation

0.034 A.s 100 V

0.067 A.s 240 V

Protection type

Internal fuse 4 A 5 x 20 mm time-delayed primary circuit

Overload protection secondary circuit

Overvoltage protection secondary circuit

Short-circuit protection secondary circuit

Total useful secondary power

26 W

Secondary power

15 W 24 V DC

25 W 5 V DC

Current at secondary voltage

0.5 A 24 V DC sensor power supply

0.6 A 24 V DC relay power supply

5 A 5 V DC

Insulation resistance

>= 100 MOhm primary/ground

>= 100 MOhm primary/secondary

Marking

CE

Local signalling

1 LED (green) for presence of sensor voltage (24V)

1 LED (green) for presence of voltages (OK)

1 LED (red) for battery fault (BAT)

Module format

Standard

Net Weight

1.12 lb(US) (0.51 kg)

Environment

Immunity to microbreaks

10 ms

Dielectric strength

2000 V primary/earth

2000 V primary/secondary

Standards

CSA C22.2 No 142

CSA C22.2 No 213 Class I Division 2 Group A

IEC 61131-2

UL 508

89/336/EEC

CSA C22.2 No 213 Class I Division 2 Group B

92/31/EEC

93/68/EEC

CSA C22.2 No 213 Class I Division 2 Group D

73/23/EEC

CSA C22.2 No 213 Class I Division 2 Group C

Product Certifications

RMRS

BV

RINA

GL

ABS

DNV

LR

Ambient Air Temperature for Operation

32...140 °F (0...60 °C)

Ambient Air Temperature for Storage

-13...158 °F (-25...70 °C)

Relative Humidity

10...95 % without condensation for operation

5...95 % without condensation for storage

Operating altitude
0...6561.68 ft (0...2000 m)

Protective treatment
TC

IP Degree of Protection
IP20

Pollution degree
2

Ordering and shipping details

Category
US1PC2222558

Discount Schedule
PC22

GTIN
3389110725605

Returnability
No

Packing Units
Unit Type of Package 1
PCE

Nbr. of units in pkg.
1

Package 1 Height
2.4 in (6.0 cm)

Package 1 Width
7.09 in (18.0 cm)

Package 1 Length
10.2 in (26.0 cm)

Package weight(Lbs)
21.8 oz (619.0 g)