

Schneider Series Service Manual

TSXPSY1610M

1. Description

The TSXPSY1610M from Schneider Electric is a power supply module designed for TSX Micro PLCs. It features both relay and secondary voltages with a maximum output of 30 watts, making it suitable for various applications.

2. Specifications

Specification	Value
Manufacturer	Schneider Electric
Product	Line TSX Micro PLCs
Part	Number TSXPSY1610M
EAN	3389110725599
Weight	1.00 lbs (0.45 kg)
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
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

3. Product Information

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Technical specifications for TSXPSY1610M

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IP Degree of Protection IP20

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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

Description

The Schneider Electric TSXPSY1610M is a dedicated power supply module tailored for TSX Micro PLCs. This unit operates at a primary voltage of 24 V DC, specifically within a range of 19.2 to 30 V. It supplies a secondary voltage of 0.6 A at 24 V DC for relay applications and 3 A at 5 V DC for other critical tasks, yielding a total useful secondary power output of 30 watts. The input current remains capped at 1500 mA for 24 V usage.

Safety and protection are paramount in the design of the TSXPSY1610M, featuring an internal fuse rated at 3.5 A (5 x 20 mm) that is time-delayed. In addition, the module offers overload, overvoltage, and short-circuit protection to enhance reliability. Local signaling incorporates a green LED that indicates voltage presence, while a red LED signals a battery fault.

The device is fit for diverse environments, functioning within an ambient temperature range of 0 to 60 °C and withstanding storage temperatures between -25 and 70 °C. Relative humidity levels for operation can reach 10 to 95% without condensation, further broadening potential application scenarios. Its operational altitude can extend up to 2000 meters. With a protective treatment specification of TC and an IP20 degree of protection from external objects, the TSXPSY1610M is a robust option suited for a range of industrial applications.

Range of Product

Modicon Premium Automation platform

Product or Component Type

Power supply module

Complementary

Primary voltage

24 V DC 19.2...30 V

Input current

<= 1500 mA 24 V

Inrush current

100 A 24 V

I²t on activation

12.5 A².s

It on activation

0.2 A.s

Protection type

Internal fuse 3.5 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

30 W

Secondary power

15 W 24 V DC

15 W 5 V DC

Current at secondary voltage

0.6 A 24 V DC relay power supply

3 A 5 V DC

Marking

CE

Local signalling

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

1 LED (red) for battery fault (BAT)

Module format

Standard

Net Weight

1.19 lb(US) (0.54 kg)

Environment

Immunity to microbreaks

1 ms

Dielectric strength

2000 V primary/earth

2000 V primary/secondary

Standards

93/68/EEC

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

CSA C22.2 No 142

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

IEC 61131-2

UL 508

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

92/31/EEC

73/23/EEC

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

89/336/EEC

Product Certifications

RMRS

LR

ABS

RINA

BV

GL

DNV

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

22558-TSX PREMIUM, ATRIUM & PL7 PRO

Discount Schedule

PC22

GTIN

3389110725599

Returnability

No

Country of origin

FR

Packing Units

Unit Type of Package 1

PCE

Nbr. of units in pkg.

1

Package 1 Height

2.2 in (5.5 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)