

Schneider Series Service Manual

TSXPSY5520MC

1. Description

The TSXPSY5520MC power supply module from Schneider Electric is designed for industrial automation applications, providing reliable performance and robust protection features.

2. Specifications

Specification	Value
Manufacturer	Schneider Electric
Product	Type Power Supply Module
Product	Line Modicon
Part	Number TSXPSY5520MC
EAN	3595863950724
Protection	Type Fuse, Overload, Overvoltage, Short-circuit
Primary	Voltage 24...48 V DC, 19.2...60 V
Marking	CE
Immunity	to Microbreaks 1 ms
Environment	Industrial/Automation
Product	Certifications CE
Insulation	Resistance >= 10 mOhm
Local	Signalling LED indicators (Green: OK, Red: BAT)
Temperature	Range -10°C to 60°C
Range	of Product
Modicon	Premium Automation platform
Product	or Component Type
Power	supply module
Complementary	
Primary	voltage
24...48	V DC 19.2...60 V
Input	current
<=	1500 mA 48 V
<=	3000 mA 24 V
Inrush	current
15	A 24 V
15	A 48 V
I _t	on activation
50	A ² .s 24 V
55	A ² .s 48 V
I _t	on activation
6	A.s 48 V
7	A.s 24 V
Protection	type
Internal	fuse 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
50	W
Seco	

3. Product Information

The TSXPSY5520MC power supply module from Schneider Electric is designed for industrial automation applications, providing reliable performance and robust protection features.

Technical specifications for TSXPSY5520MC

Manufacturer Schneider Electric

Product Type Power Supply Module

Product Line Modicon

Part Number TSXPSY5520MC

EAN 3595863950724

Protection Type Fuse, Overload, Overvoltage, Short-circuit

Primary Voltage 24...48 V DC, 19.2...60 V

Marking CE

Immunity to Microbreaks 1 ms

Environment Industrial/Automation

Product Certifications CE

Insulation Resistance ≥ 10 mOhm

Local Signalling LED indicators (Green: OK, Red: BAT)

Temperature Range -10°C to 60°C

Range of Product

Modicon Premium Automation platform

Product or Component Type

Power supply module

Complementary

Primary voltage

24...48 V DC 19.2...60 V

Input current

≤ 1500 mA 48 V

≤ 3000 mA 24 V

Inrush current

15 A 24 V

15 A 48 V

I^2t on activation

50 A².s 24 V

55 A².s 48 V

I_t on activation

6 A.s 48 V

7 A.s 24 V

Protection type

Internal fuse 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

50 W

Secondary power

19 W 24 V DC

35 W 5 V DC

Current at secondary voltage

0.8 A 24 V DC relay power supply

7 A 5 V DC

Insulation resistance

≥ 10 mOhm primary/ground

≥ 10 mOhm primary/secondary

Marking

CE

Local signalling

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

1 LED (red) for battery fault (BAT)

Module format

Double

Net Weight

1.96 lb(US) (0.89 kg)

Environment

Immunity to microbreaks

1 ms

Dielectric strength

2000 V primary/earth

2000 V primary/secondary

Standards

73/23/EEC

92/31/EEC

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

89/336/EEC

CSA C22.2 No 142

IEC 61131-2

93/68/EEC

UL 508

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

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

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

Product Certifications

LR

RINA

BV

DNV

RMRS

GL

ABS

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

Conformal coating Humiseal 1A33

IP Degree of Protection

IP20

Pollution degree

2

Ordering and shipping details

Category

22558-TSX PREMIUM, ATRIUM & PL7 PRO

Discount Schedule

PC22

GTIN

3595863950724

Returnability

No

Country of origin

FR

Packing Units

Unit Type of Package 1

PCE

Nbr. of units in pkg.

1

Package 1 Height

3.7 in (9.5 cm)

Package 1 Width

7.09 in (18.0 cm)

Package 1 Length

10.2 in (26.0 cm)

Package weight(Lbs)

2.262 lb(US) (1.026 kg)

Description

The Schneider Electric TSXPSY5520MC is a power supply module crafted for use in industrial and automation settings. This module supports primary voltage inputs ranging from 24 to 48 volts DC, as well as 19.2 to 60 volts, allowing integration across a range of applications.

Key protective features ensure device safety, including fuses, overload management, overvoltage protection, and short-circuit safeguards. Its immunity to microbreaks is notable, recovering within 1 millisecond, enabling minimal disruptions during operations.

The unit weighs 0.41 kilograms and is equipped with LED indicators for local signaling; a green light indicates operational status, while a red light signals battery alerts. Insulation resistance is rated at 10 megohms or higher, guaranteeing durability and safety. The module operates effectively within a temperature spectrum of -10°C to 60°C, making it adaptable for various industrial conditions. Certification marked with CE ensures compliance with recognized standards.