Product datasheet

Specifications

Discontinued - Service only

Discrete output module, Modicon Premium, 16 outputs, 0.25W, overvoltage protection by DC/AC inductive

TSXDSY16R5

To be discontinued on: 31 Dec 2026

To be end-of-service on: 31 Dec 2026

Main

Range of product	Modicon Premium Automation platform
Product or component type	Discrete output module
Discrete output number	16
Discrete output type	Relay not protected
Discrete output voltage	12...24 V DC conforming to EN/IEC 61131-2 10...34 V 24...240 V AC conforming to EN/IEC 61131-2 20...264 V

Complementary

[Ith] conventional free air thermal current	3 A
Response time	< 10 ms (deactivation) < 8 ms (activation)
Contacts type and composition	1 NO
Output overvoltage protection	DC inductive, by discharge diode on each preactuator AC inductive, by RC circuit MOV (ZNO) on each preactuator
Output overload protection	1 external fuse per channel or group of channel fast blow
Short-circuit protection	1 external fuse per channel or group of channel fast blow
isalotion resistance	> 10 MOhm 500 V
Power dissipation	(0.25 W + 0.2 W x No of outputs at state 1)

Electrical durability	1000000 cycles DC-12 24 W 24 V resistive 1000000 cycles DC-3 24 W 24 V inductive 2000000 cycles DC-3 10 W 24 V inductive 300000 cycles DC-12 40 W 24 V resistive 100000 cycles AC-14 220 VA 220 V inductive 100000 cycles AC-15 220 VA 220 V inductive 1000000 cycles AC-12 110 VA 110 V resistive 1000000 cycles AC-12 220 VA 220 V resistive 1000000 cycles AC-12 50 VA 48 V resistive 1000000 cycles AC-14 110 VA 220 V inductive 1000000 cycles AC-15 110 VA 220 V inductive 150000 cycles AC-14 110 VA 110 V inductive 150000 cycles AC-15 110 VA 110 V inductive 1500000 cycles AC-14 50 VA 110 V inductive 1500000 cycles AC-15 50 VA 110 V inductive 2000000 cycles AC-14 24 VA 48 V inductive 2000000 cycles AC-15 24 VA 48 V inductive 3000000 cycles AC-14 50 VA 220 V inductive 3000000 cycles AC-15 50 VA 220 V inductive 500000 cycles AC-12 110 VA 48 V resistive 500000 cycles AC-12 220 VA 110 V resistive 500000 cycles AC-14 24 VA 24 V inductive 500000 cycles AC-15 24 VA 24 V inductive 5000000 cycles AC-14 10 VA 110 V inductive 5000000 cycles AC-14 10 VA 220 V inductive 5000000 cycles AC-14 10 VA 48 V inductive 5000000 cycles AC-15 10 VA 110 V inductive 5000000 cycles AC-15 10 VA 220 V inductive 5000000 cycles AC-15 10 VA 48 V inductive 700000 cycles AC-12 50 VA 24 V resistive
Marking	CE
Electrical connection	Screw terminal block
Current consumption	135 mA at 24 V DC rack 80 mA at 5 V DC
Module format	Standard
Net weight	0.38 kg

Environment

Dielectric strength	2000 V 50/60 Hz 60 s
Standards	73/23/EEC IEC 61131-2 UL 508 CSA C22.2 No 213 Class I Division 2 Group B 92/31/EEC 89/336/EEC CSA C22.2 No 213 Class I Division 2 Group C CSA C22.2 No 213 Class I Division 2 Group A CSA C22.2 No 142 CSA C22.2 No 213 Class I Division 2 Group D 93/68/EEC
Product certifications	BV RINA LR ABS RMRS GL DNV
Ambient air temperature for operation	0…60 °C
Ambient air temperature for storage	-25…70 °C
Relative humidity	10…95 % without condensation for operation 5…95 % without condensation for storage
Operating altitude	0...2000 m
Protective treatment	TC
IP degree of protection	IP20

Pollution degree	2

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.5 cm
Package 1 Width	18.0 cm
Package 1 Length	26.0 cm
Package 1 Weight	482.0 g

Contractual warranty

Warranty (in months)	18

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

Use Longer

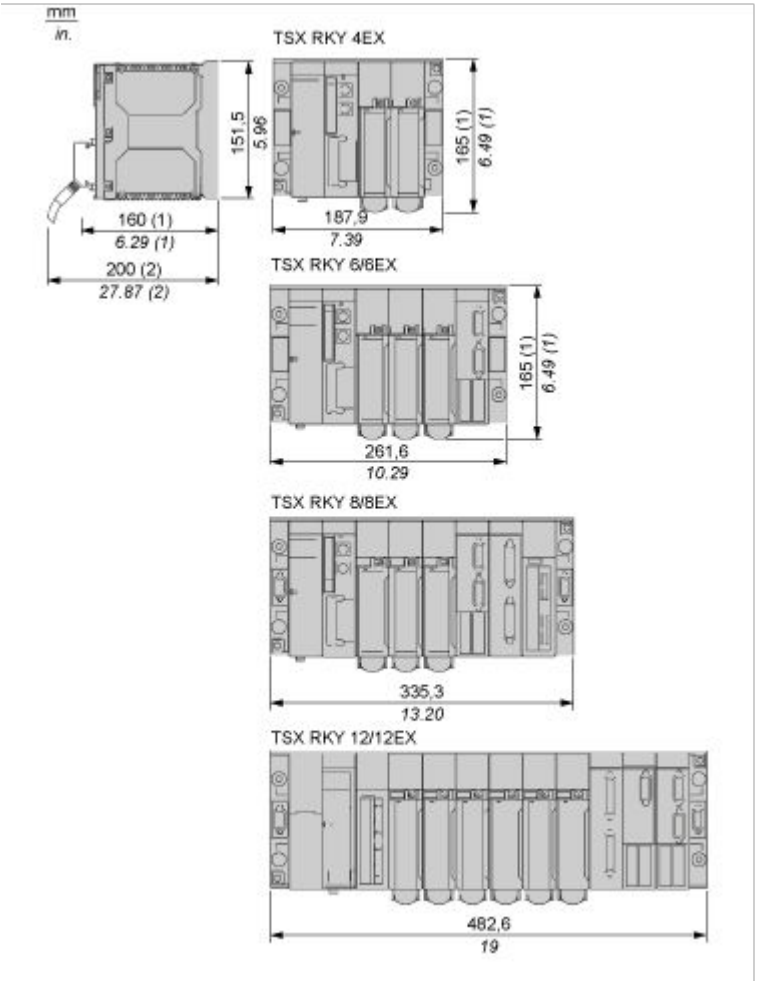
Lifetime extension

Repair	No

Dimensions Drawings

Standard and Extendable Racks for Modules Mounting

Dimensions of Modules and Racks

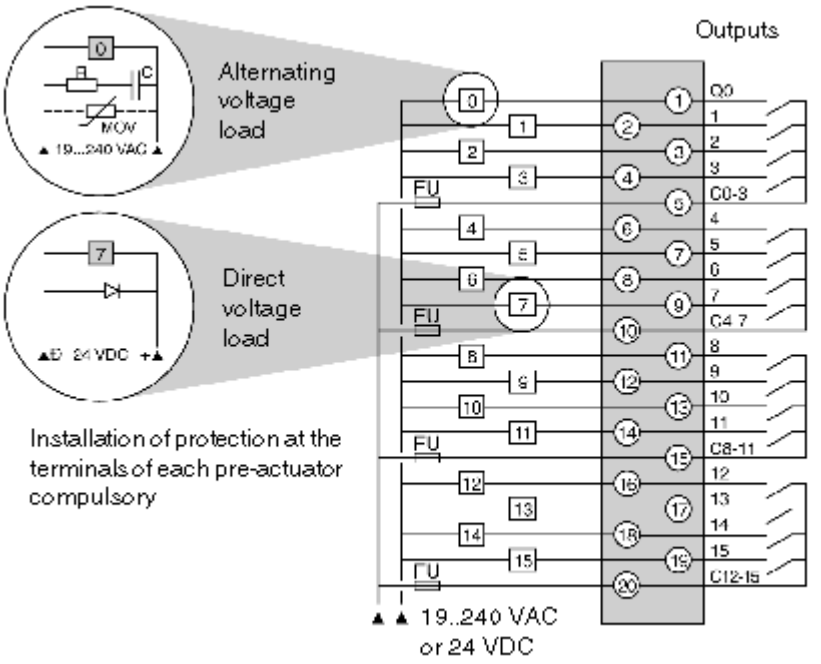


(**1**) With screw terminal block modules.
(**2**) Maximum depth for all types of modules and their associated connectors.

Connections and Schema

Discrete Relay Output 16-Channel Module for 3 A Thermal Current

Wiring Diagram



Precaution

NOTE: In the event of pre-actuator supply voltage being obtained from a tri-phase network which is equal to or greater than 200 Vac, the pre-actuators must be supplied from the same phase.