

INDUSTRIAL AUTOMATION PRODUCT

8312

230 VAC 175 W Power Module

Triconex 8312 is a 230 VAC, 175 W chassis power module. It supplies regulated 6.5 VDC power and alarm supervision for Tricon main, expansion, or RXM chassis.

IDENTITY	VERIFIED VALUE
Manufacturer	Triconex
System family	Tricon main, expansion, and RXM chassis power
Part number	8312
Country	USA
HS code	8537101190

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Technical Specifications

Technical values below are limited to the named Triconex product record.

PARAMETER	TECHNICAL VALUE
Chassis compatibility	Main; expansion; RXM
Nominal input	230 VAC
Input range	185 to 285 VAC
Input frequency	47 to 63 Hz
Fuse	2.5 A time-delay
Output hold time	20 ms minimum
Input-to-output isolation	>1000 VAC or 1500 VDC
Input conductors	Three 12 AWG (3.310 mm ²)
Over-temperature warning	>181 degF (83 degC) internal
Alarm contacts	NO; NC; common
Alarm-contact rating	120 VAC at 1 A
Minimum input power	240 W per power module
Output power	175 W at 60 degC
Output voltage	6.5 VDC +/-1%
Maximum output current	27 A at 60 degC
Indicators	PASS; FAULT; ALARM; TEMP; BAT LOW

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System Role and Architecture

Triconex 8312 is a 230 VAC, 175 W chassis power module. It supplies regulated 6.5 VDC power and alarm supervision for Tricon main, expansion, or RXM chassis.

FUNCTION 1

Converts 230 VAC line power to the regulated DC supply used by Tricon chassis modules

FUNCTION 2

Shares a dual-module redundant chassis power arrangement in which either supply carries full load

FUNCTION 3

Provides hard-wired alarm contacts for module, system, input-power, battery, and temperature events

FUNCTION 4

Supports online replacement of one power module while the companion module remains in service

Matched system components

- Tricon main, expansion, or RXM chassis
- second redundant chassis power module
- 185-285 VAC protected feeder
- hard-wired alarm and protective-earth terminals

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	Tricon main, expansion, or RXM chassis
Companion hardware	second redundant chassis power module
Field connection	185-285 VAC protected feeder
Primary system function	Converts 230 VAC line power to the regulated DC supply used by Tricon chassis modules
Controlled acceptance duty	Redundant Tricon main-chassis power

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Applications and Engineering Context

Redundant Tricon main-chassis power

Converts 230 VAC line power to the regulated DC supply used by Tricon chassis modules

Expansion-chassis supply replacement

Shares a dual-module redundant chassis power arrangement in which either supply carries full load

Remote RXM cabinet power conversion

Provides hard-wired alarm contacts for module, system, input-power, battery, and temperature events

Chassis power-alarm integration

Supports online replacement of one power module while the companion module remains in service

TECHNICAL NOTE

Verify the 230 VAC execution, feeder protection, protective earth, alarm-contact wiring, and companion power-module health before online replacement; check regulated output and all indicators afterward.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	8312 / 8312 recorded
Physical interface	Tricon main, expansion, or RXM chassis
Companion check	second redundant chassis power module
Functional proof	Converts 230 VAC line power to the regulated DC supply used by Tricon chassis modules
Application test	Redundant Tricon main-chassis power

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Engineering Precautions

1

Verify 8312 and the 230 VAC chassis position before touching the supply.

2

Confirm the companion power module can carry the complete chassis load.

3

Isolate the selected 185-285 VAC feeder and prove line, neutral, and earth terminals safe.

4

Inspect the two-and-a-half-amp time-delay fuse and protected input terminals.

5

Maintain the protective-earth conductor and hard-wired alarm-contact assignments.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
Triconex 3008	Main Processor Module	Open product page
Triconex 4119A	Enhanced Intelligent Communication Module	Open product page
Triconex 4329	Network Communication Module	Open product page

MANUFACTURER SOURCE RECORD

Tricon Systems Technical Product Guide

9791007-013

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