

SINAMICS S120 TM54F

Product Data Sheet

6SL3055-0AA00-3BA0

Fail-safe terminal expansion module

FAIL-SAFE DIGITAL INPUTS	FAIL-SAFE DIGITAL OUTPUTS	DRIVE-CLiQ INTERFACES	SUPPLY VOLTAGE RANGE
10	4	2	20.4 to 28.8 V DC; rated 24 V

Siemens 6SL3055-0AA00-3BA0 is the TM54F terminal expansion module for compatible SINAMICS drive controls. It provides fail-safe digital connections for configured Safety Integrated functions through DRIVE-CLiQ.

01 VERIFIED TECHNICAL DATA

Fail-safe digital inputs	10
Fail-safe digital outputs	4
DRIVE-CLiQ interfaces	2
Supply voltage range	20.4 to 28.8 V DC; rated 24 V
Maximum X514 supply current	4 A, including outputs and sensor supplies
Maximum current per fail-safe output	0.5 A
Maximum combined output current	2 A
Sensor supply outputs	3, including 2 with dynamization
Input voltage for logic 0	-3 to +5 V
Input voltage for logic 1	15 to 30 V

ADDITIONAL PRODUCT DATA

Typical input current at 24 V DC	3.2 mA
Typical hardware input delay	30 micros rising / 60 micros falling
Output delay with resistive load	300 micros rising / 350 micros falling
Maximum DRIVE-CLiQ cable length	100 m
Power loss at 24 V DC	4.5 W

DOCUMENTED USE SETTINGS

Automotive Production and Component Manufacturing: Automotive Component Manufacturing.

Packaging Production and Industrial Material Processing: Industrial Packaging Production.

Food Processing and Beverage Production: Food Production and Processing.

SYSTEM COMPATIBILITY

6SL3055-0AA00-3BA0 belongs to the SINAMICS S120 TM54F family and provides the documented fail-safe terminal expansion module function. Its fail-safe digital inputs is 10; match this characteristic to the connected equipment and the project configuration.

PRODUCT EVIDENCE

Siemens SINAMICS S120 TM54F manufacturer documentation; applicable pages 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173

AMIKON PRODUCT SUPPORT

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