

Schneider Series Service Manual

170ADI54050

1. Description

The 170ADI54050 discrete input base from Schneider Electric is engineered to accommodate varied input configurations effectively. This unit features 16 channels organized into two groups, each consisting of eight inputs, and is designed for use with discrete input voltages of 120V AC.

2. Specifications

Specification	Value
Manufacturer	Schneider Electric
Product	Type Discrete Input Base
Product	Line Modicon Momentum
Part	Number 170ADI54050
EAN	3595861147522
Number	of Channels 16 Channels
Groups	2 Groups with 8 Inputs
Discrete	Input Voltage 120V AC
Protective	Treatment TC Treatment
Input	Logic Positive
Input	Voltage Limits 85 to 132V AC
Network	Frequency 47 to 63 Hz
Voltage	Range 0 to 132V
Operating	Temperature Range 0°C to 60°C
Storage	Temperature Range -40°C to 85°C
Maximum	Relative Humidity 95% Without Condensation

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Technical specifications for 170ADI54050

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Description

The Schneider Electric 170ADI54050 serves as a discrete input base within the Modicon Momentum series. This device incorporates 16 channels divided into two groups of eight inputs, facilitating flexible configuration for various applications. It is designed to operate with discrete input voltages set at 120V AC, rendering it suitable for general automation tasks.

Voltage limits for the 170ADI54050 are specified between 85V and 132V AC, ensuring compatibility with a range of electrical systems. The capability to function at network frequencies from 47 to 63 Hz further enhances its operational versatility. Significantly, the input logic is positive, which can be essential for specific control setups.

The environmental specifications highlight an operating temperature range of 0°C to 60°C, making it adaptable to standard industrial conditions. It can also be stored in a temperature range from -40°C to 85°C, which is advantageous for sites with extreme temperature fluctuations. Additionally, this device has a protective treatment (TC Treatment) that aids in maintaining its robustness under various conditions. The 170ADI54050 can tolerate up to 95% relative humidity without condensation, ensuring reliability in diverse environments. Overall, the features and specifications of this discrete input base make it a suitable choice for mid-level automation applications.

Range of Product

Modicon Momentum automation platform

Product or Component Type

Discrete inputs base AC

Group of channels

2 groups of 8 inputs

Discrete input logic

Positive

Complementary

Voltage range

0...132 V

Isolation between group

1780 V AC

Isolation between channels and bus

1780 V AC

Terminals description PLC n°1

(N)PW

(5)IN_DIS#5

(13)IN_DIS#13

(15)IN_DIS#15

(12)IN_DIS#12

(10)IN_DIS#10

(14)IN_DIS#14

(11)IN_DIS#11

(9)IN_DIS#9

(7)IN_DIS#7

(L1)PW

(1)IN_DIS#1

(8)IN_DIS#8

(2)IN_DIS#2

(6)IN_DIS#6

(16)IN_DIS#16

(3)IN_DIS#3

TB

(4)IN_DIS#4

Local signalling

16 LEDs for channel status

Height

5.6 in (141.5 mm)

Width

4.9 in (125 mm)

Depth

1.9 in (47.5 mm)

Net Weight

0.626 lb(US) (0.284 kg)

Environment

Protective treatment

TC

Marking

CE

Ordering and shipping details

Category

US1PC3118206

Discount Schedule

PC31

GTIN

3595861147522

Returnability

Yes