

Schneider Series Service Manual

140DDO35300C

1. Description

The Schneider Electric 140DDO35300C is an output module designed to facilitate discrete output management within Modicon systems. It supports 32 outputs divided into 4 groups, characterized by positive source logic operation.

2. Specifications

Specification	Value
Manufacturer	Schneider Electric
Product	Line Modicon
Part	Number 140DDO35300C
EAN	3595861135741
Weight	0.50 lbs (0.23 kg)
Type	Output Module
Discrete	Outputs Yes
Number	of Outputs 32
Output	Groups 4 Groups
Output	Logic Positive Source Logic
Addressing	Requirement 2 Output Words
Discrete	Output Voltage 24V DC
Output	Voltage Limits 19.2 to 30V DC
Maximum	Load Current Per Module 16 Amps
Maximum	Load Current Per Group 4 Amps
CE	Marked Yes
Range	of Product
Modicon	Quantum automation platform
Product	or Component Type
Dc	discrete output module
Discrete	output number
32	
Complementary	
Group	of channels
4	groups of 8
Discrete	output logic
Positive	logic (source)
Addressing	requirement
2	output words
Discrete	output voltage
24	V DC
Output	voltage limits
19.2...30	V
Absolute	maximum output
56	V 1.3 s decaying pulse
Maximum	voltage drop
<0.4	V 0.5 A
Maximum	load current
16	A per module
4	A per group
Surge	current
5	A 0.0005 s
Response	Time
<=	1 ms at state 0 to state 1
<=	1 ms at state 1 to state

3. Product Information

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Technical specifications for 140DDO35300C

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Product Line Modicon

Part Number 140DDO35300C

EAN 3595861135741

Weight 0.50 lbs (0.23 kg)

Type Output Module

Discrete Outputs Yes

Number of Outputs 32

Output Groups 4 Groups

Output Logic Positive Source Logic

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Output Voltage Limits 19.2 to 30V DC

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32

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2 output words

Discrete output voltage

24 V DC

Output voltage limits

19.2...30 V

Absolute maximum output

56 V 1.3 s decaying pulse

Maximum voltage drop

<0.4 V 0.5 A

Maximum load current

16 A per module

4 A per group

Surge current

5 A 0.0005 s

Response Time

<= 1 ms at state 0 to state 1

<= 1 ms at state 1 to state 0

Maximum leakage current

0.4 mA 30 V

Load inductance

Inductance(H) = 0.5/((current(A))² x (switching frequency(Hz))) 50 Hz

Fault indication

Loss of field power

Blown fuse

Associated fuse rating

3 A each point

5 A per group

Isolation between channels and bus

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1780 Vrms DC for 1 minute
Isolation between group
500 Vrms DC for 1 minute
Protection Type
Internal output protection by 5 A fuse per group
Power dissipation
1.75 W + (0.4 V x total module load current)
Marking
CE
Local signalling
1 LED (green) for bus communication is present (Active)
1 LED (red) for external fault detected (F)
32 LEDs (green) for input status
Bus current requirement
330 mA
Module format
Standard
Net Weight
0.99 lb(US) (0.45 kg)
Environment
Protective treatment
Conformal coating Humiseal 1A33
Product Certifications
GL
RINA
BV
GOST
DNV
FM Class 1 Division 2
C-tick
RMRS
ABS
Standards
CSA C22.2 No 142
UL 508
Resistance to electrostatic discharge
4 kV contact IEC 801-2
8 kV on air IEC 801-2
Resistance to electromagnetic fields
9.1 V/m (10 V/m) 80...2000 MHz IEC 801-3
Ambient air temperature for operation
32...140 °F (0...60 °C)
Ambient Air Temperature for Storage
-40...185 °F (-40...85 °C)
Relative Humidity
95 % without condensation
Operating altitude
<= 16404.2 ft (5000 m)
Ordering and shipping details
Category
US1PC2118155
Discount Schedule
PC21
GTIN
3595861135741
Returnability
No
Packing Units
Unit Type of Package 1

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PCE

Nbr. of units in pkg.

1

Package 1 Height

6.4 in (16.3 cm)

Package 1 Width

1.8 in (4.5 cm)

Package 1 Length

12.3 in (31.2 cm)

Package weight(Lbs)

16.4 oz (465.0 g)

Description

The 140DDO35300C from Schneider Electric functions as an output module tailored for the Modicon series. It accommodates a total of 32 discrete outputs, organized into 4 distinct groups. Each output operates under a positive source logic setup, ensuring straightforward control over connected output devices. Addressing this module requires 2 output words, making configuration straightforward.

The module operates with a nominal discrete output voltage of 24V DC, and it can sustain input voltages ranging from 19.2 to 30V DC. Each module is rated for a maximum load current of 16 Amps, permitting substantial load handling capabilities. However, within individual output groups, the load current is limited to 4 Amps, ensuring stable operation in diverse scenarios. Additionally, this module is CE marked, demonstrating compliance with essential trade standards for safety and quality.

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