Product data sheet
Characteristics

140DDO35300C
discrete output module Modicon Quantum - 32 O solid state



Commercial status
End-of-Sale Notice : DEC 31, 2021

⚠ End-of-Sale Notice

Main

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 for 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 for 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	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	0.45 Kg

Modicon Quantum automation platform

Treatment for severe environments
"Conformal Coating"
discrete I/O modules

"Conformal Coating" discrete input modules *(1)*

Voltage	Modularity	Description	Logic	Safety	Certified ATEX Zone 2/22	Reference	Weight kg/*lb*
5 V ⎓ TTL	32 inputs	4 groups of 8 inputs	Negative	–	Yes	**140DDI15310C**	0.450/ *0.992*
24 V ⎓	32 inputs	4 groups of 8 inputs	Positive	Non-interfering *(2)*	Yes	**140DDI35300C**	0.300/ *0.661*
			Negative	–	Yes	**140DDI35310C**	0.300/ *0.661*
	96 inputs	6 groups of 16 inputs	Positive	–	–	**140DDI36400C**	0.300/ *0.661*
	32 inputs	4 groups of 8 inputs	Positive	–	–	**140DSI35300C**	0.300/ *0.661*
10…60 V ⎓	16 inputs	8 groups of 2 inputs	Positive	–	–	**140DDI84100C**	0.300/ *0.661*
	32 inputs	4 groups of 8 inputs	Positive	–	–	**140DDI85300C**	0.295/ *0.650*
125 V ⎓	24 inputs	3 groups of 8 inputs	Positive	–	–	**140DDI67300C**	0.300/ *0.661*
24 V ∿	16 inputs	No common point	–	–	–	**140DAI34000C**	0.300/ *0.661*
	32 inputs	4 groups of 8 inputs	–	–	–	**140DAI35300C**	0.340/ *0.750*
48 V ∿	32 inputs	4 groups of 8 inputs	–	–	–	**140DAI45300C**	0.300/ *0.661*
115 V ∿	16 inputs	No common point	–	–	–	**140DAI54000C**	0.310/ *0.683*
	16 inputs	2 groups of 8 inputs	–	–	–	**140DAI54300C**	0.300/ *0.661*
	32 inputs	4 groups of 8 inputs	–	–	–	**140DAI55300C**	0.330/ *0.728*
230 V ∿	16 inputs	No common point	–	–	–	**140DAI74000C**	0.350/ *0.772*
	32 inputs	4 groups of 8 inputs	–	–	–	**140DAI75300C**	0.300/ *0.661*
24 V ∿	16 inputs	No common point	Positive	–	Yes	**140SDI95300S**	0.300/ *0.661*

"Conformal Coating" discrete output modules *(1)*

Voltage	Modularity	Description	Logic	Safety	Certified ATEX Zone 2/22	Reference	Weight kg/*lb*
5 V ⎓ TTL	32 outputs	4 groups of 8 outputs	Negative	–	–	**140DDO15310C**	0.450/ *0.992*
24 V ⎓	32 outputs	4 groups of 8 outputs	Positive	Non-interfering *(2)*	Yes	**140DDO35300C**	0.450/ *0.992*
			Positive *(3)*	–	Yes	**140DDO35301C**	0.450/ *0.992*
			Negative	–	–	**140DDO35310C**	0.450/ *0.992*
	96 outputs	6 groups of 16 outputs	Positive	–	–	**140DDO36400C**	0.450/ *0.992*
10…30 V ⎓	32 outputs	4 groups of 8 outputs	Positive	–	–	**140DVO85300C**	0.300/ *0.661*
10…60 V ⎓	16 outputs	2 groups of 8 outputs	Positive	–	–	**140DDO84300C**	0.450/ *0.992*
24…125 V ⎓	12 outputs	2 groups of 6 outputs	Positive	–	–	**140DDO88500C**	0.450/ *0.992*
Relay 20…250 V a 5…150 V c	16 outputs	No common point	1 "NO" contact	–	Yes	**140DRA84000C**	0.410/ *0.904*
	8 outputs	No common point	2 "NC" and "NO" contacts	–	–	**140DRC83000C**	0.300/ *0.661*
24…48 V ∿	16 outputs	4 groups of 4 outputs	–	–	–	**140DAO84220C**	0.450/ *0.992*
24…115 V ∿	16 outputs	No common point	–	–	–	**140DAO84010C**	0.485/ *1.069*
24…230 V ∿	16 outputs	No common point	–	–	–	**140DAO84000C**	0.485/ *1.069*
	32 outputs	4 groups of 8 outputs	–	–	–	**140DAO85300C**	0.450/ *0.992*
100…230 V ∿	16 outputs	4 groups of 4 outputs	–	–	–	**140DAO84210C**	0.450/ *0.992*
24 V ∿	16 inputs	No common point	Positive	–	Yes	**140SDO95300S**	0.450/ *0.992*

(1) For accessories, connection cables, replacement parts, see page 3/15.
(2) Version ⩾ 1.
(3) Outputs protected against short-circuits and overloads by thermal monitoring.