Modicon Momentum automation platform
Discrete I/O bases

Product type		Input modules for direct current		Input modules for alternating current	
					
Type of signal		True high			
Operating voltage and Input voltage		24 VDC		120 VAC	230 VAC
Current consumption		max. 250 mA		max. 125 mA	
Input type		IEC 1131 Type 1+		IEC 1131 Type 2	IEC 1131 Type 1+
Output voltage		–			
Output type		–			
Number of points		1 x 16 In	2 x 16 In	2 x 8 In	
Potential isolation	Point to point	None		None	
	Group to group	None		1780 VAC	
	Field to adapter	500 VAC		1780 VAC	
Current capacity	Per output	–			
	Per group	–			
	Per module	–			
Response time	OFF-ON	2.2 ms		10 ms @ 60 Hz	13.3 ms @ 60 Hz
	ON-OFF	3.3 ms		35 ms @ 60 Hz	13.3 ms @ 60 Hz
Protection against short circuit and overload		–			
Fault reporting	Output fault	–			
	I/O error	–			
	Blown fuse	–			
Type of module		170 ADI 340 00	170 ADI 350 00	170 ADI 540 50	170 ADI 740 50
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Output modules for direct current		Output modules for alternating current				Relay output module
						
True high						
24 VDC		120 VAC		230 VAC		120 to 230 VDC
max. 250 mA		max. 125 mA		max. 65 mA		125 mA @ 120 VAC 65 mA @ 230VDC
–						
24 VDC		120 VAC		230 VAC		20 to 250 VAC 5 to 30 VDC
Solid state switch		Triac				Relay from “C”
2 x 8 out	2 x 16 out	2 x 4 out	2 x 8 out	2 x 4 out	2 x 8 out	6 out (isolated)
None		None				1780 VAC for 1 mn
None		None				1780 VAC for 1 mn
500 VAC		1780 VAC				1780 VAC for 1 mn
0.5 A	0.5 A	2 A	0.5 A	2 A	0.5 A	5 A
4 A	8 A	4 A	4 A	4 A	4 A	5 A
8 A	16 A	8 A	8 A	8 A	8 A	21 A @ 60 °C 25 A @ 30 °C
< 0.1 ms		max. 1/2 x 1/f				10 ms
< 0.1 ms		max. 1/2 x 1/f				20 ms
Electronically safeguarded		1 fuse per group				–
1 LED/Out	1 LED/4 Out	None				–
to adapter	to adapter	None				–
–	–	1 LED				–
170 ADO 340 00	**170 ADO 350 00**	**170 ADO 530 50**	**170 ADO 540 50**	**170 ADO 730 50**	**170 ADO 740 50**	**170 ADO 830 30**
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Modicon Momentum automation platform
Discrete I/O bases

Product type		**I/O modules for direct current**			
					
Type of signal		True high		True low	True high
Input voltage		24 VDC			
Operating voltage		24 VDC			
Current consumption		max. 250 mA			max. 250 mA + sensor current
Input type		IEC 1131 Type 1+			
Output voltage		24 VDC			
Output type		Solid state switch			
Number of points		1 x 16 In, 2 x 8 Out			4 x 4 In, 2 x 4 Out
Potential isolation	Point to point	None			
	Group to group	None			
	Field to adapter	500 VAC			
Current capacity	Per output	0.5 A			2 A
	Per group	4 A			8 A
	Per module	8 A			16 A
Response time	OFF-ON	2.2 ms In, < 1 ms Out	60 µs in, < 1 ms Out	2.2 ms In, < 1 ms Out	
	ON-OFF	3.3 ms In, < 1 ms Out	80 µs in, < 1 ms Out	3.3 ms In, < 1 ms Out	
Protection against short circuit and overload		Electrically safeguarded outputs			Electrically safeguarded outputs and 4 electronically safeguarded sensor supply group
Fault reporting	Output fault	1 LED/Out			
	I/O error	to adapter			
	Blown fuse	–			
Type of module		**170 ADM 350 10**	**170 ADM 350 11**	**170 ADM 350 15**	**170 ADM 370 10**
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I/O modules for direct current		I/O modules for direct and alternating current		
				
True high				
24 VDC	12, 24, 48 VDC	24 VDC		120 VAC
24 VDC	12, 24, 48 VDC	24 VDC	120 VAC	
max. 180 mA	500 mA @ 12 VDC 250 mA @ 24 VDC 125 mA @ 48 VDC	max. 250 mA		max. 160 mA
IEC 1131 Type 1+, monitored		IEC 1131 Type 1+		IEC 1131 Type 2
24 VDC	12, 24, 48 VDC	24…230 VAC or 20…115 VDC		120…132 VAC
Solid state switch		Relay (normally open)		Triac
1 x 16 In, 1x 8 Out and 1 x 4 Out	1 x 16 In, 1 x 16 Out	1 x 10 In, 2 x 4 Out		1 x 10 In, 1 x 8 Out
None None 500 VAC	None None 707 VDC	None None 500 VAC	1780 VAC 1780 VAC 500 VAC	None None 1780 VAC
0.5 A 4 A group 1, 2 A group 2 6 A	0.5 A – 8 A @ 50 °C, 7 A @ 60 °C	2 A ohmic load 8 A ohmic load 16 A ohmic load		0.5 A 2 A 4 A
2.2 ms In, < 1 ms Out 3.3 ms In, < 1 ms Out	2.2 ms In, < 2.5 ms Out 3.3 ms In, < 2.5 ms Out	2.2 ms In, < 10 ms Out 3.3 ms In, < 10 ms Out		max 1/2 x 1/f max 1/2 x 1/f
Electronically safeguarded outputs	Electrically safeguarded outputs	None	Varistor in parallel with each contact	1 internal fuse per group (not against overload)
1 LED/In, 1 LED/Out to adapter –	1 LED/Out to adapter –	None None –		None None 1 LED/fuse
170 ADM 390 10	**170 ADM 850 10**	**170 ADM 390 30**	**170 ARM 370 30**	**170 ADM 690 51**
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