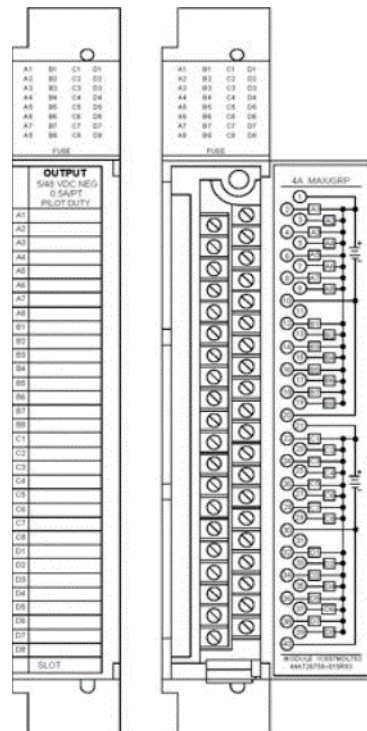


## 3.38 IC695CRH039 – 90-70 MDL753 to RX3i MDL752 Harness Assembly

### 3.38.1 Discrete Output Modules

Figure 80: 5/48 Vdc 0.5A Neg 32-Point IC697MDL753

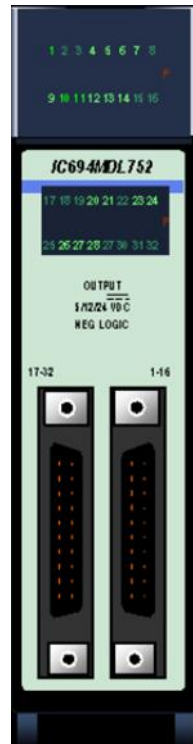


The 5/48 Vdc 0.5A Negative Logic Output Module provides 32 output points in two isolated groups with 16 points in each group.

This is a wide range module in that the rated Voltage can be 5 Vdc or 10 to 60 Vdc. It provides a high degree of inrush current at 10 V to 60 V which makes the outputs suitable for a wide range of loads which have such characteristics. It also operates at TTL levels.

LED indicators which give the ON - OFF status of each point on the logic (PLC) side of the circuit are located at the top of the module.

Figure 81: 5/24 Vdc (TTL) 0.5A 32-Point Neg Logic Output IC694MDL752



The 5/24 Vdc (TTL) Negative Logic Output module, IC694MDL752, provides 32 discrete outputs arranged in four isolated groups of eight. Each group has its own common. The outputs are negative logic or sinking-type outputs (the ON state for a point result in an active low output).

The module has two modes of operation. In TTL mode, the outputs can switch loads across +5 Vdc ( $\pm 5\%$ ) and can sink a maximum current of 25 mA per point. In 12/24V mode, the outputs can switch loads over the range of +12 to -24 Vdc (+20%, -15%) and can sink a maximum current of 0.5A per point.

### 3.38.2 Specification Comparison

Item	IC697MDL753	IC694MDL752	Notes
Rated Voltage	5 Vdc ( $\pm 5\%$ ) 10 to 60 Vdc	5, and 12 through 24 Vdc, negative logic (active low)	Customer validation required: IC694MDL752 can support applications for 5 V and from 12 to 24 Vdc only.
Output Voltage Range	5 V or 10 to 60 V	4.75 to 5.25 Vdc (TTL mode) 10.2 to 28.8 Vdc (12/24V mode)	Customer validation required: IC694MDL752 can support applications for 5 V and from 12 to 24 Vdc only.
Outputs per Module	32 (two groups of 16 outputs each)	32 (4 groups of 8 outputs each)	
Isolation	1500 V - any output to backplane 500 V between input groups	250 Vac Continuous  1500 Vac for 1 minute (frame to ground) 50 Vac continuous; 500 Vac for 1 minute	Customer validation required.
Output Current: 5 Vdc 10 to 60 Vdc	16 mA max per point 0.5A max per point 4A max per group	25mA per point (max in TTL mode) 0.5A per point (max in 12/24V mode); 4A max per group and 3A max per group common pin	Customer validation required.
<b>Output Characteristics</b>			
Inrush Current: 10 to 60 Vdc Output Voltage Drop: 5 Vdc 10 to 60 Vdc On response Time Off response Time Output Leakage: 5 Vdc 10 to 60 Vdc	5A max for 20 ms  0.5 V max (16 mA) 1 V (2 $\Omega$ ) max 1 ms typical 1 ms typical 250 mA max 1 mA max	4.6A for 10ms  0.4 V 0.24 V 0.5ms max 0.5ms max  0.1 mA max	Customer validation required.
Power Consumption:	0.25A at 5 V	260 mA max from 5 V bus on backplane;	

Item	IC697MDL753	IC694MDL752	Notes
		(13 mA + 3 mA/point ON + 4.7 mA/LED)	
VME	System designed to support the VME standard C.1		

### 3.38.3 Pin Mapping

IC695ACC651		RX3i Module 1		RX3i Module 1	
IC697MDL753		IC694MDL752		IC694MDL752	
Terminals		Left Side Terminals(TB1)		Right Side Terminals(TB2)	
1	(+)			A6, B7	(+)
2	A1			A1	Q1
3	A2			B1	Q2
4	A3			A2	Q3
5	A4			B2	Q4
6	A5			A3	Q5
7	A6			B3	Q6
8	A7			A4	Q7
9	A8			B4	Q8
10	(-)			A5	(-)
11	NC			NC	NC
12	B1			B12	Q9
13	B2			A12	Q10
14	B3			B11	Q11
15	B4			A11	Q12
16	B5			B10	Q13
17	B6			A10	Q14
18	B7			B9	Q15
19	B8			A9	Q16
20	(-)			B8	(-)
21	(+)	A6, B7	(+)		
22	C1	A1	Q17		
23	C2	B1	Q18		
24	C3	A2	Q19		
25	C4	B2	Q20		
26	C5	A3	Q21		
27	C6	B3	Q22		
28	C7	A4	Q23		
29	C8	B4	Q24		
30	(-)	A5	(-)		
31	NC	NC	NC		
32	D1	B12	Q25		

IC695ACC651		RX3i Module 1		RX3i Module 1
IC697MDL753		IC694MDL752		IC694MDL752
Terminals		Left Side Terminals(TB1)		Right Side Terminals(TB2)
33	D2	A12	Q26	
34	D3	B11	Q27	
35	D4	A11	Q28	
36	D5	B10	Q29	
37	D6	A10	Q30	
38	D7	B9	Q31	
39	D8	A9	Q32	
40	(-)	B8	(-)	