INTERFACES
Relay Modules - High Current Isolated Channels - 15 Amp 35 or 32mm DIN Rail
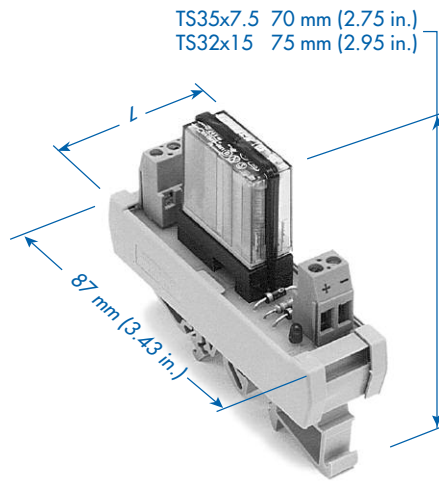
A true high-current rating in a DIN Rail mount miniature relay module. The miniature relays used in the Altech RMH have a SPDT (Form C) 16 Amp continuous current rating, developed from dual 8 Amp contacts that are internally connected in parallel. The relay socket is rated dual 8 Amp. Printed circuit traces are balanced, rated 16 Amp and connect to Altech terminal blocks UL rated 15A/300V.

Typical relay specifications combined with other module component ratings give module ratings suitable for many control applications.
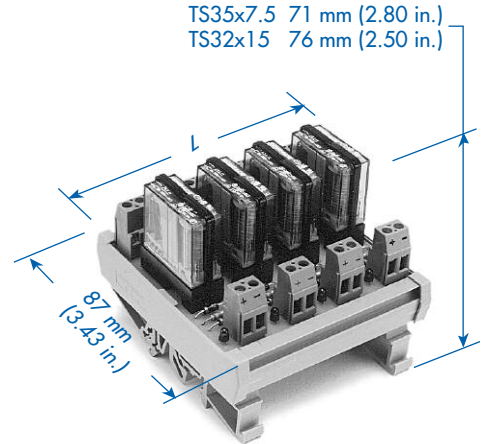
Resistive:	15A at 250V AC/30V DC
Inductive:	8A at 250V AC/30V DC
Tungsten	(TV-3): 3A at 120V AC
Motor:	1/3hp at 120V AC
	1/2hp at 250V AC

- Screw-Cage Clamp Connection
- LED Coil Voltage Indicator
- Reverse DC Polarity LED Protection
- Surge Suppression With DC Coils
- Industry Standard Relays[a]
- DIN Rail Mount, Panel Mount Available

Ordering Information

Relay Module, Coil Voltage

| 5V DC |
| 6V DC |
| 12V DC |
| 24V DC |
| 48V DC |
| 60V DC |
| 110V DC |

| 6V AC |
| 12V AC |
| 24V AC |
| 50V AC |
| 110V AC |
| 220V AC |
| 240V AC |

General Relay Specifications (Typical)

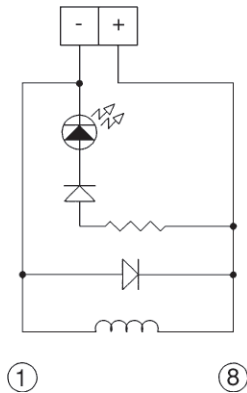| Mechanical Life:	30×10^6 ops
Max. No. of Switching Cycles at Rated Load:	1200 ops/hr
Operate Time (pick-up):	9ms
Release Time (drop-out):	3ms
Bounce Time:	2ms

[a] Catalog specifications from several manufacturers of the 16 Amp (dual 8 Amp) relay are available, please consult Altech.

RMH1- 1 Channel Single Pole Double Throw

TS35x7.5 70 mm (2.75 in.)
TS32x15 75 mm (2.95 in.)

L
87 mm (3.43 in.)

Contact Ratings		
Wire Range 0.5-4mm²	Current	Voltage 250VAC/
30-14 AWG	15A	30VDC

Type	Cat. No.	LED[b] (2mA)
RMH1B	**8905.2**	Yellow
RMH1C	**8906.2**	Green
RMH1E	**8907.2**	Red
RMH1G	**5800.2**	Yellow
RMH1J	**5802.2**	Green
RMH1K	**8908.2**	Red
RMH1M	**5803.2**	Red
RMH1N	**8909.2**	Green
RMH1R	**8910.2**	Red
RMH1S	**5801.2**	Red
RMH1T	**8911.2**	Red
RMH1U	**5804.2**	Yellow
RMH1X	**5805.2**	Green
RMH1Y	**5806.2**	Red

Std. Pk.: 1

Module Length (L) 21mm (0.83 in.)

[b] For alternate LED colors, please consult Altech.

RMH4 - 4 Channel Single Pole Double Throw

TS35x7.5 71 mm (2.80 in.)
TS32x15 76 mm (2.50 in.)

L
87 mm (3.43 in.)

Contact Ratings		
Wire Range 0.5-4mm²	Current	Voltage 250VAC/
30-14 AWG	15A	30VDC

Type	Cat. No.	LED[c] (2mA)
RMH4B	**8905.3**	Yellow
RMH4C	**8906.3**	Green
RMH4E	**8907.3**	Red
RMH4G	**5800.3**	Yellow
RMH4J	**5802.3**	Green
RMH4K	**8908.3**	Red
RMH4M	**5803.3**	Red
RMH4N	**8909.3**	Green
RMH4R	**8910.3**	Red
RMH4S	**5801.3**	Red
RMH4T	**8911.3**	Red
RMH4U	**5804.3**	Yellow
RMH4X	**5805.3**	Green
RMH4Y	**5806.3**	Red

Std. Pk.: 1

Module Length (L) 79mm (3.11 in.)

[c] For alternate LED colors, please consult Altech.

DC Coil Circuit

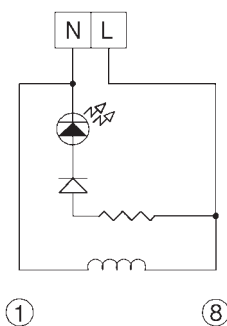### DC Coil Circuit Specifications *(Typical)*

Ambient temperature range: -40° to 70°C (-40° to 158°F)
Table values are for cold coil at 20°C (68°F) and exclude coil exterior circuit.

Coil Voltage V AC	Operate (pull-in) V Max. V AC	Drop-Out (rel.) V Min. V AC	Coil Current mA(50/60Hz)	Coil Resistance Ohms
5	3.5	0.5	92.6	54±15%
6	4.2	0.6	88.2	68±10%
12	8.7	1.2	44.4	270±10%
24	16.8	2.4	21.8	1,100±15%
48	33.6	4.8	11.4	4,200±15%
60	42.0	6.0	9.2	6,540±15%
110	77.0	11.0	4.8	23,100±15%

Diode: 1N4007 or equivalent

AC Coil Circuit

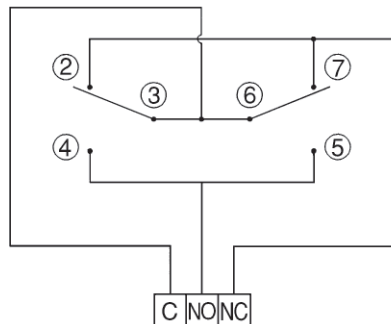### AC Coil Circuit Specifications *(Typical)*

Ambient temperature range: -40° to 60°C (-40° to 140°F)
Table values are for cold coil at 20°C (68°F) and exclude coil exterior circuit.

Coil Voltage V AC	Operate (pull-in) V Max. V AC	Drop-Out (rel.) V Min. V AC	Coil Current mA(50/60Hz)	Coil Resistance Ohms
6	4.8	1.8	190/150	15±10%
12	9.6	3.6	90/75	65±10%
24	19.2	7.2	44/35	280±10%
50	40.0	15.0	22/18	1,130±10%
115	92.0	34.5	11/9	5,600±15%
220	176.0	66.0	5/4	23,400±15%
240	176.0	66.0	4.7/4.1	23,400±15%

Diode: 1N4007 or equivalent

Contact Circuit

Contact Specifications *(Typical)*

Rated Current (Resistive):	16A
Rated Current (Ind. P.F. = 0.4):	8A
At Rated Voltage:	30V DC, 250V AC
Max. Operating Voltage:	125V DC, 380V AC
Breaking Current (Resistive):	25A
Breaking Capacity (Resistive):	4,000VA
Contact Material:	AgCdO
Contact Electrical Life:	Min. 10^5 ops
	(AC Resistive Load)