

# NACM

## 40Nm Rotary Valve Actuator (Modulating Control)



### Description

- MAPLE is proud to offer the 40 Nm valve actuator of the NACM... 40 (S) Series designed specifically application into the HVAC market.
- MAPLE high quality valve actuators have been designed for use with air damper, butterfly valve, characterized ball valve and globe valve with the use of special adapter

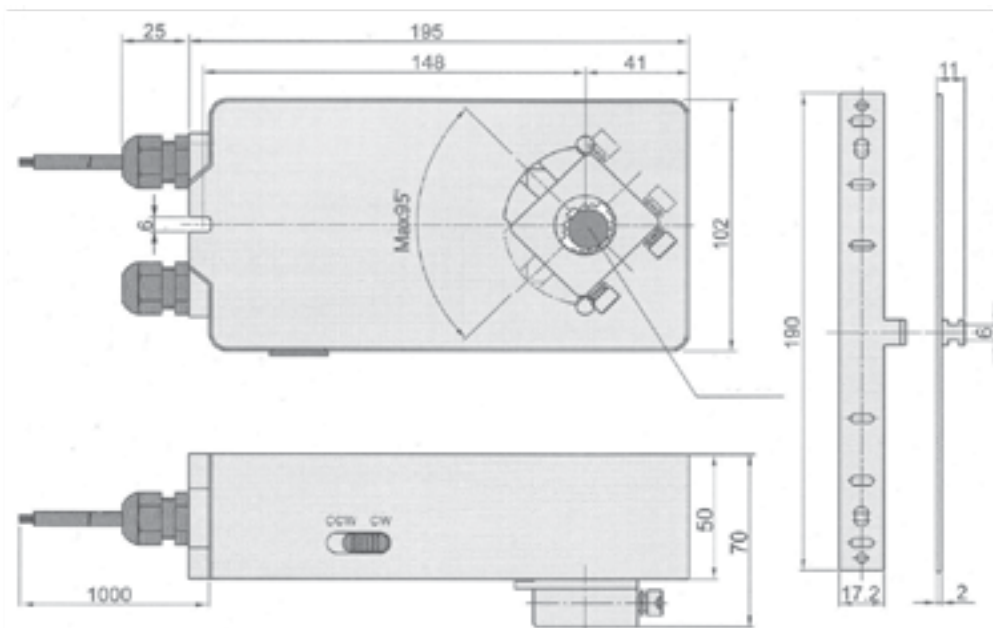
### Features

- 0(2)...10VDC and 0(4)...20 mA control
- Torque 40 Nm
- Nominal Voltage AC/DC 24V and AC 230V
- 2 Adjustable SDPT Auxiliary switches
- Shaft dimensions:  
 $\varnothing$  12 to 20 mm round /  $\square$  12 to 14 mm square
- Minimum shaft length 45 mm
- Selectable Direction of rotation CW/CCW
- Adjustable angle of rotation
- Actuator with 1m cable connect

### Model Selection

Torque	Running Time	Power Supply	Auxiliary Switch	Model / Type
40 Nm	80...150 sec	AC/DC 24V $\pm$ 10%	No 2 x SPDT	NACM 1.1-40 NACM 1.1-40S
40 Nm	80...150 sec	AC/DC 230V $\pm$ 10%	No 2 x SPDT	NACM 2.2-40 NACM 2.2-40S

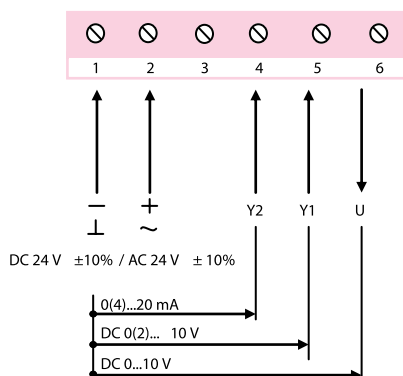
### Actuator Dimensions *Unit : mm*



### Technical Specifications

	NACM 1.1 ...40 (S)	NACM 2.2 ...40 (S)
Torque	40 Nm	
Valve Size	7.0 m <sup>2</sup>	
Power Supply	AC/DC 24 V	AC 230V ±10%
Frequency	50...60Hz	
Power Consumption	-	
- Operating	5 ... 8 VA	
- At The End Stop	1.0 ... 2.5 VA	
For Wire Sizing	8.0 VA	
Auxiliary Switch Rating (Amp and Voltage)	3 (1.5) A / 230 V (for 24 V and 230 V)	
Protection Class	II ⚡	II ☐
Controls Signal Y1	0(2)...10 VDC	
Controls Signal Y2	0(4)...20 mA	
Controls Signal U	0(2)...10 VDC	
Angle of Rotation	0°... 90° (95° mechanical)	
Weight	2.0 Kg	
Life Cycle	60,000 rotation	
Sound Level	40 dB (A)	
IP Protection	IP54	
Operating Temperature	-20°...50°C as per IEC 721-3-3	
Non-Operating Temperature	-30°...60°C as per IEC 721-3-2	
Ambient Humidity	5...95% rH non condensing / EN 60730-1	
Maintenance	Maintenance free	
Mode of Operation	Type 1 / EN60730-1	
EMC	CE according to 89 / 336 EEC	

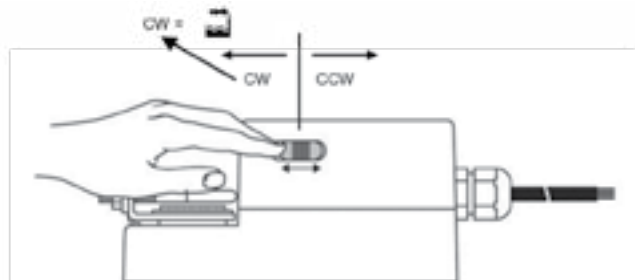
**Wiring Diagram NACM 1.1...(S)**  
Power Supply AC/DC 24 V



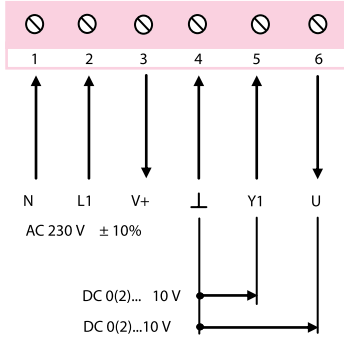
### Changing Direction of Rotation NACM 1/2...(S1)

Factory-set CCW!

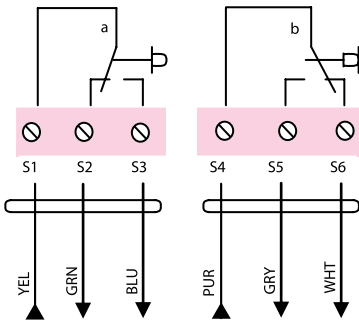
The direction of rotation can be changed by pushing the CW/CCW switch on the actuator's housing.



### Wiring Diagram NACM2.2....(S) Power Supply AC 230V



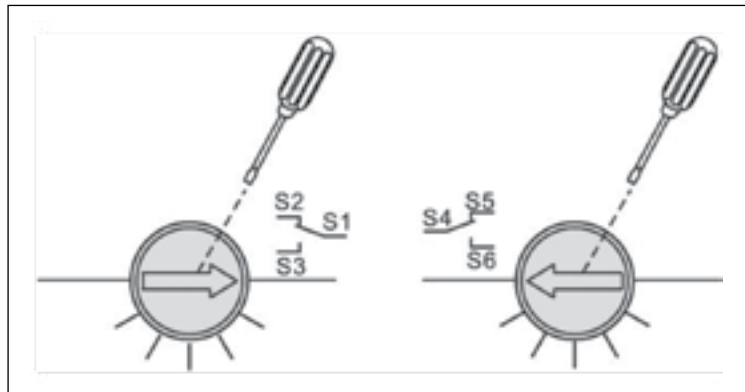
### Auxiliary Switches



### Adjustment of Auxiliary Switch NACM 1.1...(S1)

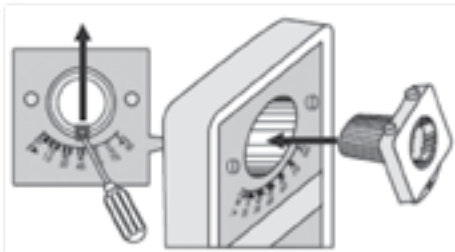
Control Signal 5 DC 0...10V  
 Input Resistance Ri 100 k Ohm  
**Factory default setting**

Control Signal 5 DC 2...10V  
 Input Resistance Ri 500 Ohm  
**On Request**



### Adjustment of Auxiliary Switch NACM 1.1...(S1)

Removing the  
Spindle  
Connector



### Auxiliary Switches

