Example: RN748A0000

# ACTUATORS

## **RN748A**

### **Motor Driver, DC/Position Proportional Converter**

The RN748A is a signal converter that receives a 4–20mA input signal from a controller and outputs a relay contact signal to drive a control motor with a built-in  $135\Omega$  feedback potentiometer for position proportioning operation. By setting the center of rotation angle and the proportional band, a split operation can be performed.



Spec	cifications			
Input	Input (IN)	Input type	4–20mAdc	
		Sampling cycle	100ms	
		Indication accuracy	±0.1% FS ±1 digit	
		Input impedance	100Ω max.	
	Digital input	Input type	Dry contact or open collector	
		Allowable ON contact	250Ω max.	
		resistance		
		Allowable OFF contact	100kΩ min.	
		resistance		
		Allowable ON residual	1.0V max.	
		voltage		
		Terminal current (ON)	Approx. 7.5mA (in case of short circuit).	
		, ,	Approx. 5.0mA (in case of contact	
			resistance 250Ω).	
		Minimum hold time	200ms or more	
	Motor feedback	Allowable resistance	100 to 2500Ω	
	potentiometer input	Detection of line break	Displays "AL07."	
Output	Motor drive relay	Contact rating	250Vac, 8A (resistive load)	
•	output	Life	120,000 operations min.	
		Min. switching	24Vdc, 40mA	
		specifications		
	Event relay outputs	Contact rating	250Vac/30Vdc, 2A (resistive load)	
	(1 to 3)	Life	100,000 operations min.	
	, ,	Min. switching	5Vdc, 40mA (reference value)	
		specifications		
Setting	Center of rotation angle	0.0 to 100.0%		
	Proportional band	0.1 to 999.9%		
	Dead zone	0.5 to 25.0%		
	Event for motor	High limit event: -199.9 to +999.9%		
	opening	Low limit event: -199.9 to +999.9%		
General	Operating conditions	Ambient temperature	0 to 50°C (gang-mounted: 0 to 40°C)	
		Ambient humidity	10 to 90% RH (no condensation allowed	
		Power	100 to 240Vac 50/60Hz	
	Power consumption	12VA max.		
	Mass		e dedicated mounting bracket)	
	Standards compliance	EN61010-1, EN61326		

Segment	Model No. selection		Description	
- 1	Basic No.	RN748A00	Motor Driver, DC/Position Proportional Converter	
II	Options	00	None	
		D0	With inspection data	
		Y0	With traceability certification	

Selection Guide III

81446912-001

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#### **Dimensions** (Unit: mm)

Terminal cover



