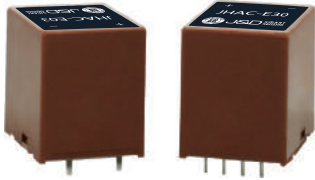




CLOSED LOOP HALL EFFECT CURRENT SENSOR

JHAC E03~E50 Series



FEATURES

- Excellent accuracy and linearity
- Low response time thermal drift
- High tolerance to external interference
- High bandwidth

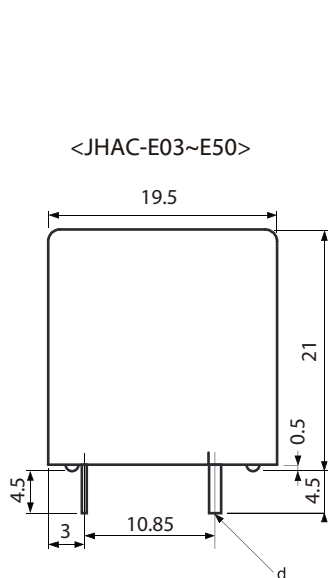
APPLICATIONS

- Servo motor drive
- Static converters for DC motor drive
- Inverter

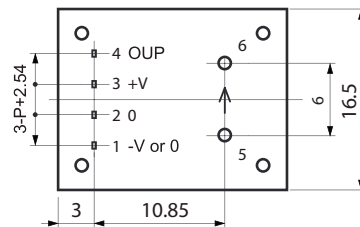
SPECIFICATION

Type	JHAC-E03	JHAC-E05	JHAC-E7.5	JHAC-E10	JHAC-E15	JHAC-E20	JHAC-E25	JHAC-E30	JHAC-E50
Nominal current (RMS)	3A	5A	7.5A	10A	15A	20A	25A	30A	50A
Measuring range	0~±9A	0~±15A	0~±22.5A	0~±30A	0~±45A	0~±60A	0~±75A	0~±90A	0~±150A
Output voltage	@ $I_p = \pm I_{pn}$ $\pm 4 \pm 0.5\%$								
Linearity	@ $I_p = 0 \pm I_{pn}$ ≤ 0.2								
Supply voltages	$\pm 15V \pm 5\%$								
Current consumption	$20 + I_p \times (N_p / N_s)$								
Isolation voltage	Between primary and secondary circuit; 3kV RMS/50Hz/1min								
Offset current (Ta = +25°C)	$\pm 30mV$ max, for primary current I $N = 0$								
Temperature drift	$\pm 0.3mV / ^\circ C$ Max(-25°C ~ +85°C)								
Response time	$2\mu s$ Max. at $di/dt = 30A/\mu s$								
Operating frequency range	0~100kHz(@-3dB)								
Operating temperature	(-25°C ~ +85°C)								
Storage temperature	(-30°C ~ +90°C)								
Weight	10g								

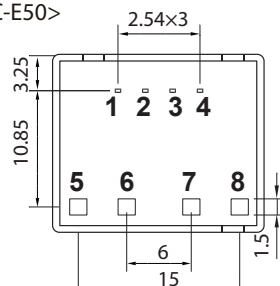
DIMENSIONS(UNIT : MM)



<JHAC-E03~E30>



<JHAC-E50>



Terminal Pin Identification

- 1 : -15V
- 2 : 0V(GND)
- 3 : +15V
- 4 : Output
- 5 : Primary input Current (+)
- 6 : Primary input Current (-)

Primary conductor diameter				
JHAC	-E03	-E05	-E7.5	-E10
d	0.6	0.8	0.8	1.0
JHAC	-E15	-E20	-E25	-E30
d	1.0	1.4	1.4	1.6
JHAC	-E50			
d	1.6 × 1.5 × 2			

Secondary pins dimension	
0.5 X 0.25	

Terminal Pin Identification

- 1 : -15V
- 2 : 0V(GND)
- 3 : +15V
- 4 : Output
- 5 : Primary input Current (+)
- 6 : Primary input Current (+)
- 7 : Primary input Current (-)
- 8 : Primary input Current (-)