

DATA SHEET

Hall Effect Voltage Sensor



PN: CHV_AVDA5S4

IPN=80~1000V

Feature

- Closed- loop (compensated) voltage transducer
- Capable measurement of DC and AC voltage with galvanic isolation between primary circuit and secondary circuit.
- Supply voltage: DC+5.0 V

Advantages

- High accuracy
- Easy installation
- Low temperature drift
- High immunity to external interference

Applications

- Voltage detection of power distribution cabinet
- AC/DC variable-speed drive
- Uninterruptible Power Supplies (UPS)
- Switched Mode Power Supplies (SMPS)



RoHS



Electrical data: (Ta=25°C, Vc= +5.0VDC)

Parmeter \ Ref	CHV80 AVDA5S4	CHV100 AVDA5S4	CHV600 AVDA5S4	CHV800 AVDA5S4	CHV1000 AVDA5S4
Rated input voltage Vpn(V)	80	100	600	800	1000
Measuring range Vp(V)	0 ~ +112	0 ~ +140	0 ~ +840	0 ~ +1120	0 ~ +1400
Turns ratio Np/NS (T)	1000	1000	1000	1000	1000
Output current IS(mA)	4.0+16*(VP/VPN)				
Supply voltage VC(V)	+5.0 ±5%				
Accuracy XG(%)	@IPN,T=25°C		< ±0.7		
Offset current IOE(mA)	@IP=0,T=25°C		< +4.0		
Temperature variation of IOE IOT(mA/°C)	@IP=0,-40 ~ +85°C		< ±0.5		
Linearity error εr(%FS)			< 0.2		
Response time tra(μs)	@90% of IPN		<40.0		

Power consumption IC(mA)		15+Is
Insulation voltage Vd(KV)	@50/60Hz, 1min,AC	2.5

General data:

Parameter	Value
Operating temperature TA(°C)	-40 ~ +85
Storage temperature TS(°C)	-55~ +125
Mass M(g)	50
Plastic material	PBT G30/G15, UL94- V0;
Standards	IEC60950-1:2001
	EN50178:1998
	SJ20790-2000

Dimensions(mm):

	Connection
	General tolerance

General tolerance:$\pm 0.5\text{mm}$
Size of Primary pin: ~
DG301-5.0-03P;
Secondary pin:DG301-5.0-03P

Remarks:

- When the current goes through the primary pin of a sensor, the voltage will be measured at the output end.
- Custom design is available for the different rated input current and the output voltage.

WARNING : Incorrect wiring may cause damage to the sensor.