



DATA SHEET

Hall Effect Voltage Sensor

PN: CHV_AV5S20

IPN=200~1000V

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 V

Advantages

- High accuracy
- Easy installation
- Low temperature drift
- High immunity to external interference
- Very good linearity
- Can be customized

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= +5VDC)

Parmeter \ Ref	CHV200 AV5S20	CHV400 AV5S20	CHV600 AV5S20	CHV800 AV5S20	CHV1000 AV5S20
Rated input voltage Vpn(V)	200	400	600	800	1000
Measuring range Vp(V)	0 ~ +280	0 ~ +360	0 ~ +840	0 ~ +1120	0 ~ +1400
Turns ratio Np/NS (T)	1000	1000	1000	1000	1000
Secondary coil resistance RS (Ω)	60	60	60	60	60
Output current IS(mA)	+20*VP/VPN				
Inside resistance RM (Ω)	【(VC-0.5)/IS*0.001】 -RS				
Supply voltage VC(V)	+5.0 ±5%				
Accuracy XG(%)	@IPN,T=25°C		< ±0.5		
Offset current IOE(mA)	@IP=0,T=25°C		< +0.2		
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				



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Insulation voltage Vd(KV)	@50/60Hz, 1min,AC	2.5
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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):	
	<h3>Connection</h3>
<h3>General tolerance</h3> <p>General tolerance: <math>\pm 0.5\text{mm}</math> Size of Primary pin : DG301-5.0-02P ; Secondary pin:DG301-5.0-04P</p>	

Remarks:
<ul style="list-style-type: none"> ➤ 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.
<p>WARNING : Incorrect wiring may cause damage to the sensor.</p>

