

HCSP-3BS

Three-phase Open Loop Current Sensor - Busbar Mounting



KEY FEATURES

- ▶ Open loop current transducer based on Hall effect
- ▶ Measured current values up to ±1.200 A
- ▶3-phase busbar mounting
- ▶ 3 simple analog ratiometric outputs
- ► Non-intrusive technology
- ▶ Galvanic separation between power and control
- ► Full compatibility with Infineon HybridPack
- ▶ Press fit contacts to eliminate soldering
- ▶ Operating temperature from -40°C to +125°C

DESCRIPTION

Piher Sensing Systems' HCSP3BS is a three-phase open loop current sensor that generates a ratiometric analog output voltage signal proportional to the current flowing through the conductor. Based on Hall effect technology the sensor has been designed for accurate measurement of AC and DC currents in automotive battery management and motor control applications.

APPLICATIONS

- ► Motor control
- ► EV motor inverters
- ▶ DC/DC converters

SPECIFICATIONS							
Parameter	Unit	Min.	Тур.	Max.			
Supply voltage	V	4,5	5	5,5			
Supply current	mA	33	42	48			
Output voltage	V	0,5		4,5			
Offset voltage	V		2,5				
Frequency bandwidth	kHz	70		250			
Operating temperature	°C	-40		+125			
Typical error (at 25°C; V _{cc} = 5V)	%	0,65		2,5			
Max. error (at -40°C to +125°C; V _{cc} = 5V)	%	1		3,5			

Other specification on request

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ORDER CODE						
HCSP-3BS	0800	0900	1000	1100	1200	
Current measuring range	±800 A	±900 A	±1000 A	±1100 A	±1200 A	
Sensitivity*	2,5 mV/A	2,22 mV/A	2 mV/A	1,81 mV/A	1,67 mV/A	
Sensitivity error*	± 0,6 %					
Electrical offset voltage*	± 3 mV					

^{*}at 25°C / Vcc = 5V; Other specification on request









Please always use the latest updated datasheets and 3D models published on our website.

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