S-DIAS Current Controller Module SR 020



with 1 DC motor output stage 3,5 A 1 Power LED driver 350 mA 1 LED driver 20 mA

The S-DIAS SR 020 current controller module is used to operate a DC motor with a 12-30 V supply voltage and a maximum motor current of 3.5 A. Higher starting currents are possible for a short period.

The module also contains a current-controlled LED driver with a maximum current of 20 mA, as well as a current-controlled power LED with a maximum of 350 mA.

Motor Output Specifications

Number	1	
Supply voltage	12-30 V DC	
Controller frequency	30 kHz	
Current	0-3.5 A	
Motor peak start current	maximum I ² t-value = 16 A ² s	
Operation mode	S3/50 % duty cycle with a maximum on-time of 1.5 min	
Intermediate circuit capacity	140 µF	
Voltage monitoring	Overvoltage and under voltage monitoring	
Motor current measurement	0-3.5 A	
Protective function	Short circuit switch-off I²t switch-off Over temperature switch-off	

Current Output Specifications

	Number	2	
	LED 1	0-20 mA at max. 10 V LED forward voltage	
	Resolution	8-bit	
	LED 2 (power LED)	0-350 mA at max. 10 V LED forward voltage	
	Resolution	8-bit	

Electrical Requirements

Power supply +24 V	18-30 V		
Current consumption of +24 V power supply	maximum 210 mA/24 V		
Motor supply	12-30 V depends on the motor +5 V		
Current consumption of motor supply			
Voltage supply from S-DIAS bus			
Current consumption on the S-DIAS bus (+5 V supply)	typically 68 mA	maximum 80 mA	
Voltage supply from S-DIAS bus	+24 V		
Current consumption on the S-DIAS bus (+24 V supply)	typically 15 mA	maximum 20 mA	

Article Number and Miscellaneous

Article number	20-029-020 20-029-020-X (polymer coated printed circuit board)	
Dimensions	12.5 x 104.2 x 72 mm (W x H x D)	
Standard	UL 61800-5-1 (E247993)	
Approvals	UL, cUL, CE	

Environmental Conditions

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	Storage temperature	-20 +85 °C		
	Environmental temperature	0 +55 °C		
	Humidity	0-95 %, non-condensing		
	Operating conditions	pollution degree 2 altitude up to 2000 m		
	EMC resistance	MC resistance in accordance with EN 61000		
EMC noise generation		in accordance with EN 61000-6-4 (industrial area)		
	Vibration resistance	EN 60068-2-6	3.5 mm from 5-8.4 Hz 1 g from 8.4-150 Hz	
	Shock resistance	EN 60068-2-27	15 g	
	Protection type	EN 60529	IP20	