imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

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Set consisting of a 4-way signal conditioner with screw connection technology and a Rogowski coil 600 mm in length/190 mm in diameter for AC current measurement on busbars and power lines. The signal conditioner outputs 8 different standard signals on the output side and has one switching output.



Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	480.0 g
Custom tariff number	85437090
Country of origin	Germany

Technical data

Measuring transducer supply

Nominal supply voltage	24 V DC
Nominal supply voltage range	9.6 V DC 30 V DC
Power consumption	\leq 1 W (at I_{OUT} = 20 mA, 9.6 V DC, 600 Ω load)

Measuring coil input data

Frequency measuring range	40 Hz 20000 Hz
Position error	< 1 %
Linearity error	0.1 %

Measuring transducer input data

Measuring ranges (current)	100 A 250 A 400 A 630 A 1000 A 1500 A 2000 A 4000 A
Configurable/programmable	Via DIP switches

Measuring transducer signal input

Input signal (at 50 Hz)	100 mV (1000 A)
Input impedance	> 100 kΩ

Measuring coil signal output



Technical data

Measuring coil signal output

Output signal (at 50 Hz)	100 mV (no load, at 1,000 A)
Output voltage (in no-load operation)	$V_{OUT} = M * dI/dt$
Output voltage (sinusoidal, in no-load operation)	100 mV (V _{OUT} = 2 * π * M * f * I (M = 0.318 μH; example: At 50 Hz; I = 1,000 A))

Measuring transducer signal output

Current output signal	0 mA 20 mA (via DIP switch)
	4 mA 20 mA (via DIP switch)
	0 mA 10 mA (via DIP switch)
	2 mA 10 mA (via DIP switch)
	0 mA 21 mA (Can be set via software)
Voltage output signal	0 V 10 V (via DIP switch)
	2 V 10 V (via DIP switch)
	0 V 5 V (via DIP switch)
	1 V 5 V (via DIP switch)
	0 V 10.5 V (Can be set via software)
Load/output load current output	\leq 600 Ω (20 mA)

General data, measuring coil

Length of measuring coil	600 mm
Diameter of measuring coil	8.3 mm ±0.2 mm
Length of signal cable	3000 mm
Conductor structure signal line	2x 0.22 mm (Signal (tinned))
	1x 0.22 mm (Shielding (tinned))
Coil material	Elastollan
Housing material	PC
Insulation	double insulation
Rated insulation voltage	1000 V AC (rms CAT III)
	600 V AC (rms CAT IV)
Test voltage	10.45 kV (DC / 1 min.)
Basic accuracy	<± 0.21 %
UL, USA / Canada	UL 61010 Recognized

General data for measuring transducer

Maximum transmission error	\leq 0.5 % (From the range end value)
Frequency range	16 Hz 1000 Hz
Housing material	РВТ
Degree of protection	IP20
Test voltage	3 kV (50 Hz, 1 min.)



Technical data

General data for measuring transducer

UL, USA / Canada	UL 508 Listed
General data	
Standards/regulations	IEC 61010-1
	IEC 61010-2-032
Pollution degree	2
Overvoltage category	Ш
Typical measuring error	< 1 %

Connection data

Connection name	Measuring transducer side
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	1.5 mm ²
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	1.5 mm ²
Conductor cross section AWG min.	26
Conductor cross section AWG max.	16
Screw thread	M3
Connection method	Screw connection
Stripping length	10 mm
Torque	0.5 Nm 0.6 Nm

Dimensions

Width	6.20 mm
Height	110.50 mm
Depth	120.50 mm

Ambient conditions

Ambient temperature (operation)	-30 °C 80 °C (Measuring coil)
	-40 °C 70 °C (Measuring transducer)
Ambient temperature (storage/transport)	-40 °C 80 °C (Measuring coil)
	-40 °C 85 °C (Measuring transducer)
Maximum altitude	> 4000 m
Measuring coil degree of protection	IP67 (not assessed by UL)

Classifications

eCl@ss

eCl@ss 5.1	27200303
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Classifications

eCl@ss

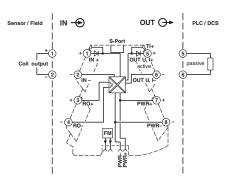
eCl@ss 6.0	27200303
ETIM	
ETIM 4.0	EC002475

EC002475

Drawings

ETIM 5.0

Block diagram



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