

Utilisation

Sensors to measure d.c., a.c. or pulsating currents with a galvanic insulation between primary and secondary circuits.

Type MP25P1: the rating (from 5 to 25A) is determined via a combination of the primary connections (see table: "Arrangement of primary terminals and related characteristics").

Technical data

	Without primary bus bar	With primary bus bar
Nominal primary current		A r.m.s.
Measuring range	@ ±15V (±5%)	A peak
Max. measuring resistance	@ I_p max & ±15V (±5%)	Ω
Min. measuring resistance	@ I_{pN} & ±15V (±5%) & 70°C	Ω
Min. measuring resistance	@ I_{pN} & ±12V (±5%) & 70°C	Ω
Turn number		
Secondary current at I_{pN}		See data page 11
Rms accuracy at I_{pN}	-20 ... +70°C, sinus 50Hz	mA
Offset current	@ +25°C	%
Linearity		mA
Thermal drift coefficient	-20 ... +70°C	%
Delay time		μA/°C
di/dt correctly followed		μs
Bandwidth	-1dB	A / μs
Max. no-load consumption current	@ ±15V (±5%)	kHz
Secondary resistance	@ +70°C	mA
Dielectric strength Primary/Secondary	50 Hz, 1 min	kV
Supply voltage	±5%	V dc
Voltage drop		V
Mass (EL type)		kg
Mass (MP and EL...BB types)		kg
Operating temperature		°C
Storage temperature		°C

MP25P1



EL25P1 to 100P2 / EL25P1BB to 100P2BB



-	MP25P1	EL25P1	EL50P1	EL55P2	EL100P2
	EL25P1BB	EL50P1BB	EL55P2BB	EL100P2BB	
See data page 11	25	50	50	50	100
	±55	±80	±80	±80	±145
	216	142	78	93	29
	100	100	75	10	20
	0	0	15	0	0
See data page 11	1000	1000	2000	2000	2000
	25	50	25	50	50
	≤±0.5	≤±0.5	≤±0.5	≤±0.5	≤±0.5
	≤±0.1	≤±0.2	≤±0.2	≤±0.2	≤±0.2
	≤0.1	≤0.1	≤0.1	≤0.1	≤0.1
	7	7	7	7	7
	≤0.1	≤0.1	≤0.1	≤0.1	≤0.1
	≤100	≤200	≤200	≤150	≤150
	≤150	≤200	≤200	≤150	≤150
	≤18	≤20	≤20	≤20	≤20
	≤96	≤63	≤63	≤188	≤126
	2.5	3	3	3	3
	±12 ... ±15	±12 ... ±15	±12 ... ±15	±12 ... ±15	±12 ... ±15
	≤3	≤3	≤3	≤3	≤3
	-	0.020	0.020	0.020	0.020
	0.027	0.027	0.027	0.027	0.027
	-20 ... +70	-20 ... +70	-20 ... +70	-20 ... +70	-20 ... +70
	-25 ... +85	-25 ... +85	-25 ... +85	-25 ... +85	-25 ... +85

General data

Direction of the current:

- **MP25P1 type:** a primary current flowing from pins 1- 5 to pins 6-10 results in a positive secondary output current from terminal M.
- **EL type:** a primary current flowing in the direction of the arrow results in a positive secondary output current from terminal M.

Secondary connection: 3 soldering pins.

Unit packing:

- **MP25P1 type:** 40 per pack.
- **EL type:** 50 per pack.
- **EL...BB type:** 25 per pack.

Fixing and connecting by soldering pins

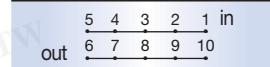
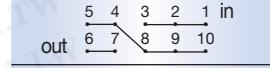
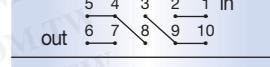
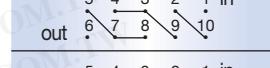
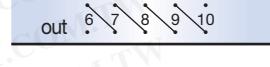
(on PCB)

Primary connection:

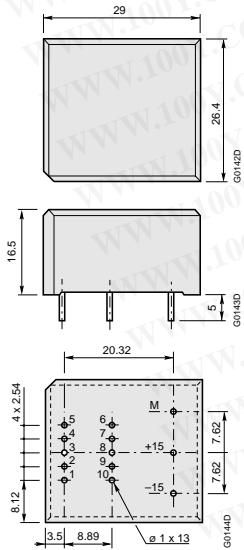
- **MP25P1 type:** by 10 soldering pins.
- **EL type:** hole for primary conductor (the temperature of the primary conductor in contact with the case must not exceed 100 °C)
- **EL...BB type:** primary bar included.

MP and EL Industry Current Sensors

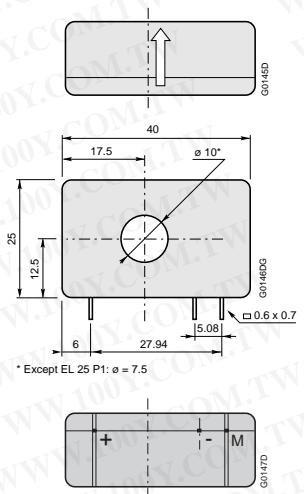
MP25P1 : Arrangement of primary terminals and related characteristics

Nominal primary current (A r.m.s.)	Measuring range @ ±15V (±5%) (A peak)	Secondary current at I_{PN} (mA)	Turn ratio (Np/Ns)	Primary resistance (mΩ)	Primary pin connections
25	±36	25	1/1000	0.3	
12	±18	24	2/1000	1.1	
8	±12	24	3/1000	2.5	
6	±9	24	4/1000	4.4	
5	±7	25	5/1000	6.3	

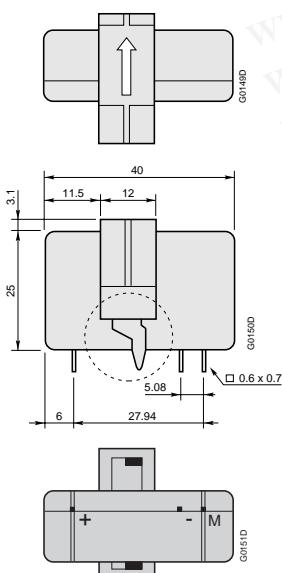
Dimensions (in mm)



MP current sensors

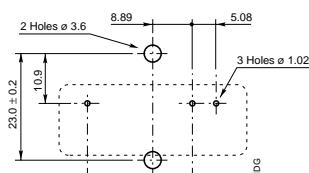


EL current sensors



EL...BB current sensors

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[Http://www.100y.com.tw](http://www.100y.com.tw)



EL...BB: PCB layout