

CM7290 (CM7291) + CT7000series Combined Accuracies

CT7631, CT7731 [AC/DC CURRENT SENSOR, AC/DCAUTO-ZERO CURRENT SENSOR]

Rev_0
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(*1) 3Hz~10Hz guaranteed accuracy is only for SLOW mode.
(*2) When the Filter is set to ON, guaranteed accuracy is 66Hz or less.

1. Display Accuracy

-1. DC Display (DC function)

CM7290 range	Amplitude	Frequency Bands				Addition Accuracy		
		DC	3Hz ≤ f < 10Hz (*1)	10Hz ≤ f < 45Hz	45Hz ≤ f ≤ 66Hz	66Hz < f ≤ 500Hz	Filter: ON (*2)	SLOW mode
60.00A	0.00A ≤ I ≤ 60.00A	±1.3 %rdg. ±0.58A	unsuitable	unsuitable	unsuitable	unsuitable	-	-
100.0A	0.0A ≤ I ≤ 100.0A	±1.3 %rdg. ±1.3A					-	-

-2. AC display (AC function)

(1) AC RMS

CM7290 range	Amplitude (RMS)	Frequency Bands				Addition Accuracy		
		DC	3Hz ≤ f < 10Hz (*1)	10Hz ≤ f < 45Hz	45Hz ≤ f ≤ 66Hz	66Hz < f ≤ 500Hz	Filter: ON (*2)	SLOW mode
60.00A	3.00A ≤ I ≤ 60.00A	unsuitable	±3.2 %rdg. ±0.6A	±2.8 %rdg. ±0.6A	±1.3 %rdg. ±0.58A	±3 %rdg. ±0.6A	±0.5% rdg. ± 0.05A	± 0.05A
100.0A	30.0A ≤ I ≤ 80.0A		±3.2 %rdg. ±1.5A	±2.8 %rdg. ±1.5A	±1.3 %rdg. ±1.3A	±3 %rdg. ±1.5A	±0.5% rdg. ± 0.5A	± 0.5A
	80.0A < I ≤ 100.0A		±3.7 %rdg. ±1.5A	±3.3 %rdg. ±1.5A		±3.5 %rdg. ±1.5A		

(2) AC PEAK

CM7290 range	Amplitude (PEAK)	Frequency Bands				Addition Accuracy		
		DC	3Hz ≤ f < 10Hz (*1)	10Hz ≤ f < 45Hz	45Hz ≤ f ≤ 66Hz	66Hz < f ≤ 500Hz	Filter: ON (*2)	SLOW mode
150.0A	0.0A ≤ I ≤ 110.0A	unsuitable	±4.5 %rdg. ±2.7A	±4.5 %rdg. ±2.7A	±3.5 %rdg. ±2.7A	not guaranteed	±0.5% rdg.	-
	110.0A < I ≤ 150.0A		±5 %rdg. ±2.7A	±5 %rdg. ±2.7A				-
300.0A	0.0A ≤ I ≤ 110.0A		±4.5 %rdg. ±2.7A	±4.5 %rdg. ±2.7A	±3.5 %rdg. ±2.7A		±0.5% rdg.	-
	110.0A < I ≤ 150.0A		±5 %rdg. ±2.7A	±5 %rdg. ±2.7A				-

-3. DC +AC Display (AC+DC function)

(1) DC+AC RMS

CM7290 range	Amplitude (RMS)	Frequency Bands				Addition Accuracy		
		DC	3Hz ≤ f < 10Hz	10Hz ≤ f < 45Hz	45Hz ≤ f ≤ 66Hz	66Hz < f ≤ 500Hz	Filter: ON (*2)	SLOW mode
60.00A	3.00A ≤ I ≤ 60.00A	±2.5 %rdg. ±0.65A	±3.2 %rdg. ±0.62A	±2.8 %rdg. ±0.62A	±1.3 %rdg. ±0.62A	±3 %rdg. ±0.62A	±0.5% rdg.	-
100.0A	30.0A ≤ I ≤ 80.0A	±2.5 %rdg. ±2A	±3.2 %rdg. ±1.7A	±2.8 %rdg. ±1.7A	±1.3 %rdg. ±1.7A	±3 %rdg. ±1.7A	±0.5% rdg.	-
	80.0A < I ≤ 100.0A		±3.7 %rdg. ±1.7A	±3.3 %rdg. ±1.7A		±3.5 %rdg. ±1.7A		-

(2) DC+AC PEAK

CM7290 range	Amplitude (PEAK)	Frequency Bands				Addition Accuracy		
		DC	3Hz ≤ f < 10Hz (*1)	10Hz ≤ f < 45Hz	45Hz ≤ f ≤ 66Hz	66Hz < f ≤ 500Hz	Filter: ON (*2)	SLOW mode
150.0A	0.0A ≤ I ≤ 110.0A	±3.5 %rdg. ±2.7A	±4.5 %rdg. ±2.7A	±4.5 %rdg. ±2.7A	±3.5 %rdg. ±2.7A	not guaranteed	±0.5% rdg.	-
	110.0A < I ≤ 150.0A		±5 %rdg. ±2.7A	±5 %rdg. ±2.7A				-
300.0A	0.0A ≤ I ≤ 110.0A		±4.5 %rdg. ±2.7A	±4.5 %rdg. ±2.7A	±3.5 %rdg. ±2.7A		±0.5% rdg.	-
	110.0A < I ≤ 150.0A		±5 %rdg. ±2.7A	±5 %rdg. ±2.7A				-

-4. Frequency Display (Hz function)

CM7290 range	Amplitude (RMS)	Frequency Bands			Addition Accuracy		
		DC	1.000Hz ≤ f ≤ 9.999Hz	9.00Hz ≤ f ≤ 99.99Hz	90.0Hz ≤ f ≤ 999.9Hz	Filter: ON (*2)	SLOW mode
9.999Hz	3.00A ≤ I ≤ 100.0A	unsuitable	±0.2 %rdg. ±0.002Hz	unsuitable	unsuitable	-	-
99.99Hz			not guaranteed	±0.1 %rdg. ±0.01Hz	unsuitable	-	-
999.9Hz			not guaranteed	not guaranteed	±0.1 %rdg. ±0.1Hz	-	-

CM7290 (CM7291) + CT7000series Combined Accuracies

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(*1) 3Hz~10Hz guaranteed accuracy is only for SLOW mode.
(*2) When the Filter is set to ON, guaranteed accuracy is 66Hz or less.

2. Output Accuracy

-1. DC Output (DC function)

(1) WAVE Output

CM7290 range (Output rate)	Amplitude	Frequency Bands					Addition Accuracy	
		DC	3Hz ≤ f < 10Hz (*1)	10Hz ≤ f < 45Hz	45Hz ≤ f ≤ 66Hz	66Hz < f ≤ 500Hz	Filter: ON (*2)	SLOW mode
60.00A (10mV/A)	0.00A ≤ I ≤ 60.00A	±1.5 %rdg. ±5.8mV	unsuitable	unsuitable	unsuitable	unsuitable	-	-
100.0A (1mV/A)	0.0A ≤ I ≤ 100.0A	±1.5 %rdg. ±1.3mV					-	-

-2.AC Output (AC function)

(1) WAVE Output

CM7290 range (Output rate)	Amplitude (RMS)	Frequency Bands					Addition Accuracy	
		DC	3Hz ≤ f < 10Hz (*1)	10Hz ≤ f < 45Hz	45Hz ≤ f ≤ 66Hz	66Hz < f ≤ 500Hz	Filter: ON (*2)	SLOW mode
60.00A (10mV/A)	0.00A ≤ I ≤ 60.00A	unsuitable	±3.4 %rdg. ±6.2mV	±3 %rdg. ±6mV	±1.5 %rdg. ±5.8mV	±3.2 %rdg. ±6mV	±0.5% rdg. ± 0.5mV	-
100.0A (1mV/A)	0.0A ≤ I ≤ 80.0A		±3.4 %rdg. ±1.7mV	±3 %rdg. ±1.5mV	±1.5 %rdg. ±1.3mV	±3.2 %rdg. ±1.5mV	±0.5% rdg. ± 0.5mV	-
	80.0A < I ≤ 100.0A		±3.9 %rdg. ±1.7mV	±3.5 %rdg. ±1.5mV		±3.7 %rdg. ±1.5mV		-

(2) RMS Output

CM7290 range (Output rate)	Amplitude (RMS)	Frequency Bands					Addition Accuracy	
		DC	3Hz ≤ f < 10Hz (*1)	10Hz ≤ f < 45Hz	45Hz ≤ f ≤ 66Hz	66Hz < f ≤ 500Hz	Filter: ON (*2)	SLOW mode
60.00A (10mV/A)	3.00A ≤ I ≤ 60.00A	unsuitable	±3.4 %rdg. ±6.2mV	±3 %rdg. ±6mV	±1.8 %rdg. ±5.8mV	±3.2 %rdg. ±6mV	±0.5% rdg. ± 0.5mV	-
100.0A (1mV/A)	30.0A ≤ I ≤ 80.0A		±3.4 %rdg. ±1.7mV	±3 %rdg. ±1.5mV	±1.8 %rdg. ±1.3mV	±3.2 %rdg. ±1.5mV	±0.5% rdg. ± 0.5mV	-
	80.0A < I ≤ 100.0A		±3.9 %rdg. ±1.7mV	±3.5 %rdg. ±1.5mV		±3.7 %rdg. ±1.5mV		-

(3) PEAK Output

CM7290 range (Output rate)	Amplitude (PEAK)	Frequency Bands					Addition Accuracy	
		DC	3Hz ≤ f < 10Hz (*1)	10Hz ≤ f < 45Hz	45Hz ≤ f ≤ 66Hz	66Hz < f ≤ 500Hz	Filter: ON (*2)	SLOW mode
150.0A (10mV/A)	0.0A ≤ I ≤ 110.0A	unsuitable	±4.5 %rdg. ±27mV	±4.5 %rdg. ±27mV	±3.5 %rdg. ±27mV	not guaranteed	±0.5% rdg. ± 0.5mV	-
	110.0A < I ≤ 150.0A		±5 %rdg. ±27mV	±5 %rdg. ±27mV				-
300.0A (1mV/A)	0.0A ≤ I ≤ 110.0A		±4.5 %rdg. ±9mV	±4.5 %rdg. ±9mV	±3.5 %rdg. ±9mV		±0.5% rdg. ± 0.5mV	-
	110.0A < I ≤ 150.0A		±5 %rdg. ±9mV	±5 %rdg. ±9mV				-

-3. DC+AC Output (AD+DC function)

(1) WAVE Output

CM7290 range (Output rate)	Amplitude (RMS)	Frequency Bands					Addition Accuracy	
		DC	3Hz ≤ f < 10Hz (*1)	10Hz ≤ f < 45Hz	45Hz ≤ f ≤ 66Hz	66Hz < f ≤ 500Hz	Filter: ON (*2)	SLOW mode
60.00A (10mV/A)	0.00A ≤ I ≤ 60.00A	±2.5 %rdg. ±6.2mV	±3.4 %rdg. ±6.2mV	±3 %rdg. ±6.2mV	±1.5 %rdg. ±6.2mV	±3.2 %rdg. ±6.2mV	±0.5% rdg. ± 0.5mV	-
100.0A (1mV/A)	0.0A ≤ I ≤ 80.0A	±2.5 %rdg. ±1.7mV	±3.4 %rdg. ±1.7mV	±3 %rdg. ±1.7mV	±1.5 %rdg. ±1.7mV	±3.2 %rdg. ±1.7mV	±0.5% rdg. ± 0.5mV	-
	80.0A < I ≤ 100.0A		±3.9 %rdg. ±1.7mV	±3.5 %rdg. ±1.7mV		±3.7 %rdg. ±1.7mV		-

(2) RMS Output

CM7290 range (Output rate)	Amplitude (RMS)	Frequency Bands					Addition Accuracy	
		DC	3Hz ≤ f < 10Hz (*1)	10Hz ≤ f < 45Hz	45Hz ≤ f ≤ 66Hz	66Hz < f ≤ 500Hz	Filter: ON (*2)	SLOW mode
60.00A (10mV/A)	3.00A ≤ I ≤ 60.00A	±2.7 %rdg. ±6.2mV	±3.4 %rdg. ±6.2mV	±3 %rdg. ±6.2mV	±1.8 %rdg. ±6.2mV	±3.2 %rdg. ±6.2mV	±0.5% rdg. ± 0.5mV	-
100.0A (1mV/A)	30.0A ≤ I ≤ 80.0A	±2.7 %rdg. ±1.7mV	±3.4 %rdg. ±1.7mV	±3 %rdg. ±1.7mV	±1.8 %rdg. ±1.7mV	±3.2 %rdg. ±1.7mV	±0.5% rdg. ± 0.5mV	-
	80.0A < I ≤ 100.0A		±3.9 %rdg. ±1.7mV	±3.5 %rdg. ±1.7mV		±3.7 %rdg. ±1.7mV		-

(3) PEAK Output

CM7290 range (Output rate)	Amplitude (PEAK)	Frequency Bands					Addition Accuracy	
		DC	3Hz ≤ f < 10Hz (*1)	10Hz ≤ f < 45Hz	45Hz ≤ f ≤ 66Hz	66Hz < f ≤ 500Hz	Filter: ON (*2)	SLOW mode
150.0A (10mV/A)	0.0A ≤ I ≤ 110.0A	±3.5 %rdg. ±27mV	±4.5 %rdg. ±27mV	±4.5 %rdg. ±27mV	±3.5 %rdg. ±27mV	not guaranteed	±0.5% rdg. ± 0.5mV	-
	110.0A < I ≤ 150.0A		±5 %rdg. ±27mV	±5 %rdg. ±27mV				-
300.0A (1mV/A)	0.0A ≤ I ≤ 110.0A		±4.5 %rdg. ±9mV	±4.5 %rdg. ±9mV	±3.5 %rdg. ±9mV		±0.5% rdg. ± 0.5mV	-
	110.0A < I ≤ 150.0A		±5 %rdg. ±9mV	±5 %rdg. ±9mV				-

-4. Frequency Output (Hz function)

(1) FREQ Output

CM7290 range (Output rate)	Amplitude (RMS)	Frequency Bands			Addition Accuracy		
		DC	1.000Hz ≤ f ≤ 9.999Hz	9.00Hz ≤ f ≤ 99.99Hz	90.0Hz ≤ f ≤ 999.9Hz	Filter: ON (*2)	SLOW mode
9.999Hz (100mV/Hz)	3.00A ≤ I ≤ 100.0A	unsuitable	±0.4 %rdg. ±2.3mV	unsuitable	unsuitable	-	-
99.99Hz (10mV/Hz)			not guaranteed	±0.3 %rdg. ±2.2mV		-	-
999.9Hz (1mV/Hz)			not guaranteed	±0.3 %rdg. ±2.2mV	-	-	

CM7290 (CM7291) + CT7000series Combined Accuracies

CT7636, CT7736 [AC/DC CURRENT SENSOR, AC/DCAUTO-ZERO CURRENT SENSOR]

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(*1) 3Hz~10Hz guaranteed accuracy is only for SLOW mode.
(*2) When the Filter is set to ON, guaranteed accuracy is 66Hz or less.

1. Display Accuracy

-1. DC Display (DC function)

CM7290 range	Amplitude	Frequency Bands				Addition Accuracy		
		DC	3Hz ≤ f < 10Hz (*1)	10Hz ≤ f < 45Hz	45Hz ≤ f ≤ 66Hz	66Hz < f ≤ 1kHz	Filter: ON (*2)	SLOW mode
60.00A	0.00A ≤ I ≤ 60.00A	±2.3 %rdg. ±3.08A	unsuitable	unsuitable	unsuitable	unsuitable	-	-
600.0A	0.0A ≤ I ≤ 600.0A	±2.3 %rdg. ±3.8A					-	-

-2.AC display (AC function)

(1)AC RMS

CM7290 range	Amplitude (RMS)	Frequency Bands				Addition Accuracy		
		DC	3Hz ≤ f < 10Hz (*1)	10Hz ≤ f < 45Hz	45Hz ≤ f ≤ 66Hz	66Hz < f ≤ 1kHz	Filter: ON (*2)	SLOW mode
60.00A	3.00A ≤ I ≤ 60.00A	unsuitable	±4.2 %rdg. ±3.1A	±3.8 %rdg. ±3.1A	±2.3 %rdg. ±3.08A	±4 %rdg. ±3.1A	±0.5% rdg. ± 0.05A	± 0.05A
600.0A	30.0A ≤ I ≤ 600.0A		±4.2 %rdg. ±4A	±3.8 %rdg. ±4A	±2.3 %rdg. ±3.8A	±4 %rdg. ±4A	±0.5% rdg. ± 0.5A	± 0.5A

(2)AC PEAK

CM7290 range	Amplitude (PEAK)	Frequency Bands				Addition Accuracy		
		DC	3Hz ≤ f < 10Hz (*1)	10Hz ≤ f < 45Hz	45Hz ≤ f ≤ 66Hz	66Hz < f ≤ 1kHz	Filter: ON (*2)	SLOW mode
150.0A	0.0A ≤ I ≤ 150.0A	unsuitable	±5.5 %rdg. ±4.9A	±5.5 %rdg. ±4.9A	±4.5 %rdg. ±4.9A	not guaranteed	±0.5% rdg.	-
900A	0A ≤ I ≤ 600A		±5.5 %rdg. ±11.2A	±5.5 %rdg. ±11.2A	±4.5 %rdg. ±11.2A		±0.5% rdg.	-
	600A < I ≤ 900A		±7.5 %rdg. ±11.2A	±7.5 %rdg. ±11.2A	±6.5 %rdg. ±11.2A		±0.5% rdg.	-

-3. DC +AC Display (AC+DC function)

(1) DC+AC RMS

CM7290 range	Amplitude (RMS)	Frequency Bands				Addition Accuracy		
		DC	3Hz ≤ f < 10Hz	10Hz ≤ f < 45Hz	45Hz ≤ f ≤ 66Hz	66Hz < f ≤ 1kHz	Filter: ON (*2)	SLOW mode
60.00A	3.00A ≤ I ≤ 60.00A	±3.5 %rdg. ±3.15A	±4.2 %rdg. ±3.12A	±3.8 %rdg. ±3.12A	±2.3 %rdg. ±3.12A	±4 %rdg. ±3.12A	±0.5% rdg.	-
600.0A	30.0A ≤ I ≤ 600.0A	±3.5 %rdg. ±4.5A	±4.2 %rdg. ±4.2A	±3.8 %rdg. ±4.2A	±2.3 %rdg. ±4.2A	±4 %rdg. ±4.2A	±0.5% rdg.	-

(2) DC+AC PEAK

CM7290 range	Amplitude (PEAK)	Frequency Bands				Addition Accuracy		
		DC	3Hz ≤ f < 10Hz (*1)	10Hz ≤ f < 45Hz	45Hz ≤ f ≤ 66Hz	66Hz < f ≤ 1kHz	Filter: ON (*2)	SLOW mode
150.0A	0.0A ≤ I ≤ 150.0A	unsuitable	±4.5 %rdg. ±4.9A	±5.5 %rdg. ±4.9A	±4.5 %rdg. ±4.9A	not guaranteed	±0.5% rdg.	-
900A	0A ≤ I ≤ 600A		±4.5 %rdg. ±11.2A	±5.5 %rdg. ±11.2A	±4.5 %rdg. ±11.2A		±0.5% rdg.	-
	600A < I ≤ 900A		±6.5 %rdg. ±11.2A	±7.5 %rdg. ±11.2A	±6.5 %rdg. ±11.2A		±0.5% rdg.	-

-4. Frequency Display (Hz function)

CM7290 range	Amplitude (RMS)	Frequency Bands			Addition Accuracy		
		DC	1.000Hz ≤ f ≤ 9.999Hz	9.00Hz ≤ f ≤ 99.99Hz	90.0Hz ≤ f ≤ 999.9Hz	Filter: ON (*2)	SLOW mode
9.999Hz	3.00A ≤ I ≤ 600.0A	unsuitable	±0.2 %rdg. ±0.002Hz	unsuitable	unsuitable	-	-
99.99Hz			not guaranteed	±0.1 %rdg. ±0.01Hz	-	-	
999.9Hz				not guaranteed	±0.1 %rdg. ±0.1Hz	-	-

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(*1) 3Hz~10Hz guaranteed accuracy is only for SLOW mode.
(*2) When the Filter is set to ON, guaranteed accuracy is 66Hz or less.

2. Output Accuracy

-1. DC Output (DC function)

(1) WAVE Output

CM7290 range (Output rate)	Amplitude	Frequency Bands				Addition Accuracy		
		DC	3Hz ≤ f < 10Hz (*1)	10Hz ≤ f < 45Hz	45Hz ≤ f ≤ 66Hz	66Hz < f ≤ 1kHz	Filter: ON (*2)	SLOW mode
60.00A (10mV/A)	0.00A ≤ I ≤ 60.00A	±2.5 %rdg. ±30.8mV	unsuitable	unsuitable	unsuitable	unsuitable	-	-
600.0A (1mV/A)	0.0A ≤ I ≤ 600.0A	±2.5 %rdg. ±3.8mV					-	-

-2.AC Output (AC function)

(1) WAVE Output

CM7290 range (Output rate)	Amplitude (RMS)	Frequency Bands				Addition Accuracy		
		DC	3Hz ≤ f < 10Hz (*1)	10Hz ≤ f < 45Hz	45Hz ≤ f ≤ 66Hz	66Hz < f ≤ 1kHz	Filter: ON (*2)	SLOW mode
60.00A (10mV/A)	0.00A ≤ I ≤ 60.00A	unsuitable	±4.4 %rdg. ±31.2mV	±4 %rdg. ±31mV	±2.5 %rdg. ±30.8mV	±4.2 %rdg. ±31mV	±0.5% rdg. ± 0.5mV	-
600.0A (1mV/A)	0.0A ≤ I ≤ 600.0A		±4.4 %rdg. ±4.2mV	±4 %rdg. ±4mV	±2.5 %rdg. ±3.8mV	±4.2 %rdg. ±4mV	±0.5% rdg. ± 0.5mV	-

(2) RMS Output

CM7290 range (Output rate)	Amplitude (RMS)	Frequency Bands				Addition Accuracy		
		DC	3Hz ≤ f < 10Hz (*1)	10Hz ≤ f < 45Hz	45Hz ≤ f ≤ 66Hz	66Hz < f ≤ 1kHz	Filter: ON (*2)	SLOW mode
60.00A (10mV/A)	3.00A ≤ I ≤ 60.00A	unsuitable	±4.4 %rdg. ±31.2mV	±4 %rdg. ±31mV	±2.8 %rdg. ±30.8mV	±4.2 %rdg. ±31mV	±0.5% rdg. ± 0.5mV	-
600.0A (1mV/A)	30.0A ≤ I ≤ 600.0A		±4.4 %rdg. ±4.2mV	±4 %rdg. ±4mV	±2.8 %rdg. ±3.8mV	±4.2 %rdg. ±4mV	±0.5% rdg. ± 0.5mV	-

(3) PEAK Output

CM7290 range (Output rate)	Amplitude (PEAK)	Frequency Bands				Addition Accuracy		
		DC	3Hz ≤ f < 10Hz (*1)	10Hz ≤ f < 45Hz	45Hz ≤ f ≤ 66Hz	66Hz < f ≤ 1kHz	Filter: ON (*2)	SLOW mode
150.0A (10mV/A)	0.0A ≤ I ≤ 150.0A	unsuitable	±5.5 %rdg. ±49mV	±5.5 %rdg. ±49mV	±4.5 %rdg. ±49mV	not guaranteed	±0.5% rdg. ± 0.5mV	-
900A	0A ≤ I ≤ 600A		±5.5 %rdg. ±11.2mV	±5.5 %rdg. ±11.2mV	±4.5 %rdg. ±11.2mV		±0.5% rdg. ± 0.5mV	-
600.0A (1mV/A)	600A < I ≤ 900A		±7.5 %rdg. ±11.2mV	±7.5 %rdg. ±11.2mV	±6.5 %rdg. ±11.2mV		±0.5% rdg. ± 0.5mV	-

-3. DC+AC Output (AD+DC function)

(1) WAVE Output

CM7290 range (Output rate)	Amplitude (RMS)	Frequency Bands				Addition Accuracy		
		DC	3Hz ≤ f < 10Hz (*1)	10Hz ≤ f < 45Hz	45Hz ≤ f ≤ 66Hz	66Hz < f ≤ 1kHz	Filter: ON (*2)	SLOW mode
60.00A (10mV/A)	0.00A ≤ I ≤ 60.00A	±3.5 %rdg. ±31.2mV	±4.4 %rdg. ±31.2mV	±4 %rdg. ±31.2mV	±2.5 %rdg. ±31.2mV	±4.2 %rdg. ±31.2mV	±0.5% rdg. ± 0.5mV	-
600.0A (1mV/A)	0.0A ≤ I ≤ 600.0A	±3.5 %rdg. ±4.2mV	±4.4 %rdg. ±4.2mV	±4 %rdg. ±4.2mV	±2.5 %rdg. ±4.2mV	±4.2 %rdg. ±4.2mV	±0.5% rdg. ± 0.5mV	-

(2) RMS Output

CM7290 range (Output rate)	Amplitude (RMS)	Frequency Bands				Addition Accuracy		
		DC	3Hz ≤ f < 10Hz (*1)	10Hz ≤ f < 45Hz	45Hz ≤ f ≤ 66Hz	66Hz < f ≤ 1kHz	Filter: ON (*2)	SLOW mode
60.00A (10mV/A)	3.00A ≤ I ≤ 60.00A	±3.7 %rdg. ±31.2mV	±4.4 %rdg. ±31.2mV	±4 %rdg. ±31.2mV	±2.8 %rdg. ±31.2mV	±4.2 %rdg. ±31.2mV	±0.5% rdg. ± 0.5mV	-
600.0A (1mV/A)	30.0A ≤ I ≤ 600.0A	±3.7 %rdg. ±4.2mV	±4.4 %rdg. ±4.2mV	±4 %rdg. ±4.2mV	±2.8 %rdg. ±4.2mV	±4.2 %rdg. ±4.2mV	±0.5% rdg. ± 0.5mV	-

(3) PEAK Output

CM7290 range (Output rate)	Amplitude (PEAK)	Frequency Bands				Addition Accuracy		
		DC	3Hz ≤ f < 10Hz (*1)	10Hz ≤ f < 45Hz	45Hz ≤ f ≤ 66Hz	66Hz < f ≤ 1kHz	Filter: ON (*2)	SLOW mode
150.0A (10mV/A)	0.0A ≤ I ≤ 150.0A	unsuitable	±4.5 %rdg. ±49mV	±5.5 %rdg. ±49mV	±4.5 %rdg. ±49mV	not guaranteed	±0.5% rdg. ± 0.5mV	-
900A	0A ≤ I ≤ 600A		±4.5 %rdg. ±11.2mV	±5.5 %rdg. ±11.2mV	±4.5 %rdg. ±11.2mV		±0.5% rdg. ± 0.5mV	-
600.0A (1mV/A)	600A < I ≤ 900A		±6.5 %rdg. ±11.2mV	±7.5 %rdg. ±11.2mV	±6.5 %rdg. ±11.2mV		±0.5% rdg. ± 0.5mV	-

-4. Frequency Output (Hz function)

(1) FREQ Output

CM7290 range (Output rate)	Amplitude (RMS)	Frequency Bands			Addition Accuracy		
		DC	1.000Hz ≤ f ≤ 9.999Hz	9.00Hz ≤ f ≤ 99.99Hz	90.0Hz ≤ f ≤ 999.9Hz	Filter: ON (*2)	SLOW mode
9.999Hz (100mV/Hz)	3.00A ≤ I ≤ 600.0A	unsuitable	±0.4 %rdg. ±2.3mV	unsuitable	unsuitable	-	-
99.99Hz (10mV/Hz)			not guaranteed	±0.3 %rdg. ±2.2mV	-	-	
999.9Hz (1mV/Hz)			not guaranteed	±0.3 %rdg. ±2.2mV	-	-	

CM7290 (CM7291) + CT7000series Combined Accuracies

CT7642, CT7742 [AC/DC CURRENT SENSOR, AC/DCAUTO-ZERO CURRENT SENSOR]

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(*1) 3Hz~10Hz guaranteed accuracy is only for SLOW mode.
(*2) When the Filter is set to ON, guaranteed accuracy is 66Hz or less.

1. Display Accuracy

-1. DC Display (DC function)

CM7290 range	Amplitude	Frequency Bands				Addition Accuracy		
		DC	3Hz ≤ f < 10Hz (*1)	10Hz ≤ f < 45Hz	45Hz ≤ f ≤ 66Hz	66Hz < f ≤ 500Hz	Filter: ON (*2)	SLOW mode
600.0A	0.0A ≤ I ≤ 600.0A	±1.8 %rdg. ±10.8A	unsuitable	unsuitable	unsuitable	unsuitable	-	-
2000A	0A ≤ I ≤ 2000A	±1.8 %rdg. ±18A					-	-

-2.AC display (AC function)

(1)AC RMS

CM7290 range	Amplitude (RMS)	Frequency Bands				Addition Accuracy		
		DC	3Hz ≤ f < 10Hz (*1)	10Hz ≤ f < 45Hz	45Hz ≤ f ≤ 66Hz	66Hz < f ≤ 500Hz	Filter: ON (*2)	SLOW mode
600.0A	30.0A ≤ I ≤ 600.0A	unsuitable	±3.7 %rdg. ±21A	±3.3 %rdg. ±21A	±1.8 %rdg. ±10.8A	±3.5 %rdg. ±21A	±0.5% rdg. ± 0.5A	± 0.5A
2000A	300A ≤ I ≤ 1800A		±3.7 %rdg. ±30A	±3.3 %rdg. ±30A	±1.8 %rdg. ±18A	±3.5 %rdg. ±30A	±0.5% rdg. ± 5A	± 5A
	1800A < I ≤ 2000A			±2.3 %rdg. ±18A				

(2)AC PEAK

CM7290 range	Amplitude (PEAK)	Frequency Bands				Addition Accuracy		
		DC	3Hz ≤ f < 10Hz (*1)	10Hz ≤ f < 45Hz	45Hz ≤ f ≤ 66Hz	66Hz < f ≤ 500Hz	Filter: ON (*2)	SLOW mode
1500A	0A ≤ I ≤ 1500A	unsuitable	±5 %rdg. ±27A	±5 %rdg. ±27A	±4 %rdg. ±27A	not guaranteed	±0.5% rdg.	-
6000A	0A ≤ I ≤ 2300A		±5 %rdg. ±27A	±5 %rdg. ±27A	±4 %rdg. ±27A		±0.5% rdg.	-
	2300A < I ≤ 2840A		±9.5 %rdg. ±37A	±9.5 %rdg. ±37A	±8.5 %rdg. ±37A		-	-

-3. DC +AC Display (AC+DC function)

(1) DC+AC RMS

CM7290 range	Amplitude (RMS)	Frequency Bands				Addition Accuracy		
		DC	3Hz ≤ f < 10Hz	10Hz ≤ f < 45Hz	45Hz ≤ f ≤ 66Hz	66Hz < f ≤ 500Hz	Filter: ON (*2)	SLOW mode
600.0A	30.0A ≤ I ≤ 600.0A	±3 %rdg. ±11.5A	±3.7 %rdg. ±21.2A	±3.3 %rdg. ±21.2A	±1.8 %rdg. ±11.2A	±3.5 %rdg. ±21.2A	±0.5% rdg.	-
2000A	300A ≤ I ≤ 1800A	±3 %rdg. ±25A	±3.7 %rdg. ±32A	±3.3 %rdg. ±32A	±1.8 %rdg. ±22A	±3.5 %rdg. ±32A	±0.5% rdg.	-
	1800A < I ≤ 2000A				±2.3 %rdg. ±22A			-

(2) DC+AC PEAK

CM7290 range	Amplitude (PEAK)	Frequency Bands				Addition Accuracy		
		DC	3Hz ≤ f < 10Hz (*1)	10Hz ≤ f < 45Hz	45Hz ≤ f ≤ 66Hz	66Hz < f ≤ 500Hz	Filter: ON (*2)	SLOW mode
1500A	0A ≤ I ≤ 1500A	±4 %rdg. ±27A	±5 %rdg. ±27A	±5 %rdg. ±27A	±4 %rdg. ±27A	not guaranteed	±0.5% rdg.	-
6000A	0A ≤ I ≤ 2300A	±4 %rdg. ±27A	±5 %rdg. ±27A	±5 %rdg. ±27A	±4 %rdg. ±27A		±0.5% rdg.	-
	2300A < I ≤ 2840A	±8.5 %rdg. ±37A	±9.5 %rdg. ±37A	±9.5 %rdg. ±37A	±8.5 %rdg. ±37A		-	-

-4. Frequency Display (Hz function)

CM7290 range	Amplitude (RMS)	Frequency Bands			Addition Accuracy		
		DC	1.000Hz ≤ f ≤ 9.999Hz	9.00Hz ≤ f ≤ 99.99Hz	90.0Hz ≤ f ≤ 999.9Hz	Filter: ON (*2)	SLOW mode
9.999Hz	30.0A ≤ I ≤ 2000A	unsuitable	±0.2 %rdg. ±0.002Hz	unsuitable	unsuitable	-	-
99.99Hz			not guaranteed	±0.1 %rdg. ±0.01Hz		-	-
999.9Hz				not guaranteed	±0.1 %rdg. ±0.1Hz	-	-

CM7290 (CM7291) + CT7000series Combined Accuracies

CT7642, CT7742 [AC/DC CURRENT SENSOR, AC/DCAUTO-ZERO CURRENT SENSOR]

Rev.0
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(*1) 3Hz~10Hz guaranteed accuracy is only for SLOW mode.
(*2) When the Filter is set to ON, guaranteed accuracy is 66Hz or less.

2. Output Accuracy

-1. DC Output (DC function)

(1) WAVE Output

CM7290 range	Amplitude	Frequency Bands					Addition Accuracy	
		DC	3Hz ≤ f < 10Hz (*1)	10Hz ≤ f < 45Hz	45Hz ≤ f ≤ 66Hz	66Hz < f ≤ 1kHz	Filter: ON (*2)	SLOW mode
600.0A (1mV/A)	0.0A ≤ I ≤ 600.0A	±2 %rdg. ±10.8mV	unsuitable	unsuitable	unsuitable	unsuitable	-	-
2000A (0.1mV/A)	0A ≤ I ≤ 2000A	±2 %rdg. ±1.8mV					-	-

-2.AC Output (AC function)

(1) WAVE Output

CM7290 range (Output rate)	Amplitude (RMS)	Frequency Bands					Addition Accuracy	
		DC	3Hz ≤ f < 10Hz (*1)	10Hz ≤ f < 45Hz	45Hz ≤ f ≤ 66Hz	66Hz < f ≤ 1kHz	Filter: ON (*2)	SLOW mode
600.0A (1mV/A)	0.00A ≤ I ≤ 600.0A	unsuitable	±3.9 %rdg. ±21.2mV	±3.5 %rdg. ±21mV	±2 %rdg. ±10.8mV	±3.7 %rdg. ±21mV	±0.5% rdg. ± 0.5mV	-
2000A (0.1mV/A)	0A ≤ I ≤ 1800A 1800A < I ≤ 2000A		±3.9 %rdg. ±3.2mV	±3.5 %rdg. ±3mV	±2 %rdg. ±1.8mV ±2.5 %rdg. ±1.8mV	±3.7 %rdg. ±3mV	±0.5% rdg. ± 0.5mV	- -

(2) RMS Output

CM7290 range (Output rate)	Amplitude (RMS)	Frequency Bands					Addition Accuracy	
		DC	3Hz ≤ f < 10Hz (*1)	10Hz ≤ f < 45Hz	45Hz ≤ f ≤ 66Hz	66Hz < f ≤ 1kHz	Filter: ON (*2)	SLOW mode
600.0A (1mV/A)	30.0A ≤ I ≤ 600.0A	unsuitable	±3.9 %rdg. ±21.2mV	±3.5 %rdg. ±21mV	±2.3 %rdg. ±10.8mV	±3.7 %rdg. ±21mV	±0.5% rdg. ± 0.5mV	-
2000A (0.1mV/A)	300A ≤ I ≤ 1800A 1800A < I ≤ 2000A		±3.9 %rdg. ±3.2mV	±3.5 %rdg. ±3mV	±2.3 %rdg. ±1.8mV ±2.8 %rdg. ±1.8mV	±3.7 %rdg. ±3mV	±0.5% rdg. ± 0.5mV	- -

(3) PEAK Output

CM7290 range (Output rate)	Amplitude (PEAK)	Frequency Bands					Addition Accuracy	
		DC	3Hz ≤ f < 10Hz (*1)	10Hz ≤ f < 45Hz	45Hz ≤ f ≤ 66Hz	66Hz < f ≤ 1kHz	Filter: ON (*2)	SLOW mode
1500A (1mV/A)	0A ≤ I ≤ 1500A	unsuitable	±5 %rdg. ±27mV	±5 %rdg. ±27mV	±4 %rdg. ±27mV	not guaranteed	±0.5% rdg. ± 0.5mV	-
6000A (0.1mV/A)	0A ≤ I ≤ 2300A		±5 %rdg. ±9mV	±5 %rdg. ±9mV	±4 %rdg. ±9mV		±0.5% rdg. ± 0.5mV	-
	2300A < I ≤ 2840A		±9.5 %rdg. ±10mV	±9.5 %rdg. ±10mV	±8.5 %rdg. ±10mV		±0.5% rdg. ± 0.5mV	-

-3. DC+AC Output (AD+DC function)

(1) WAVE Output

CM7290 range (Output rate)	Amplitude (RMS)	Frequency Bands					Addition Accuracy	
		DC	3Hz ≤ f < 10Hz (*1)	10Hz ≤ f < 45Hz	45Hz ≤ f ≤ 66Hz	66Hz < f ≤ 1kHz	Filter: ON (*2)	SLOW mode
600.0A (1mV/A)	0.00A ≤ I ≤ 600.0A	±3 %rdg. ±11.2mV	±3.9 %rdg. ±21.2mV	±3.5 %rdg. ±21.2mV	±2 %rdg. ±11.2mV	±3.7 %rdg. ±21.2mV	±0.5% rdg. ± 0.5mV	-
2000A (0.1mV/A)	0A ≤ I ≤ 1800A 1800A < I ≤ 2000A	±3 %rdg. ±2.2mV	±3.9 %rdg. ±3.2mV	±3.5 %rdg. ±3.2mV	±2 %rdg. ±2.2mV ±2.5 %rdg. ±2.2mV	±3.7 %rdg. ±3.2mV	±0.5% rdg. ± 0.5mV	- -

(2) RMS Output

CM7290 range (Output rate)	Amplitude (RMS)	Frequency Bands					Addition Accuracy	
		DC	3Hz ≤ f < 10Hz (*1)	10Hz ≤ f < 45Hz	45Hz ≤ f ≤ 66Hz	66Hz < f ≤ 1kHz	Filter: ON (*2)	SLOW mode
600.0A (1mV/A)	30.0A ≤ I ≤ 600.0A	±3.2 %rdg. ±11.2mV	±3.9 %rdg. ±21.2mV	±3.5 %rdg. ±21.2mV	±2.3 %rdg. ±11.2mV	±3.7 %rdg. ±21.2mV	±0.5% rdg. ± 0.5mV	-
2000A (0.1mV/A)	300A ≤ I ≤ 1800A 1800A < I ≤ 2000A	±3.2 %rdg. ±2.2mV	±3.9 %rdg. ±3.2mV	±3.5 %rdg. ±3.2mV	±2.3 %rdg. ±2.2mV ±2.8 %rdg. ±2.2mV	±3.7 %rdg. ±3.2mV	±0.5% rdg. ± 0.5mV	- -

(3) PEAK Output

CM7290 range (Output rate)	Amplitude (PEAK)	Frequency Bands					Addition Accuracy		
		DC	3Hz ≤ f < 10Hz (*1)	10Hz ≤ f < 45Hz	45Hz ≤ f ≤ 66Hz	66Hz < f ≤ 1kHz	Filter: ON (*2)	SLOW mode	
1500A (1mV/A)	0A ≤ I ≤ 1500A	unsuitable	±4 %rdg. ±27mV	±5 %rdg. ±27mV	±5 %rdg. ±27mV	±4 %rdg. ±27mV	not guaranteed	±0.5% rdg. ± 0.5mV	-
6000A (0.1mV/A)	0A ≤ I ≤ 2300A		±4 %rdg. ±9mV	±5 %rdg. ±9mV	±5 %rdg. ±9mV	±4 %rdg. ±9mV		±0.5% rdg. ± 0.5mV	-
	2300A < I ≤ 2840A		±8.5 %rdg. ±10mV	±9.5 %rdg. ±10mV	±9.5 %rdg. ±10mV	±8.5 %rdg. ±10mV		±0.5% rdg. ± 0.5mV	-

-4. Frequency Output (Hz function)

(1) FREQ Output

CM7290 range (Output rate)	Amplitude (RMS)	Frequency Bands				Addition Accuracy	
		DC	1.000Hz ≤ f ≤ 9.999Hz	9.00Hz ≤ f ≤ 99.99Hz	90.0Hz ≤ f ≤ 999.9Hz	Filter: ON (*2)	SLOW mode
9.999Hz (100mV/Hz)	30.0A ≤ I ≤ 2000A	unsuitable	±0.4 %rdg. ±2.3mV	unsuitable	unsuitable	-	-
99.99Hz (10mV/Hz)			not guaranteed	±0.3 %rdg. ±2.2mV	-	-	
999.9Hz (1mV/Hz)			not guaranteed	±0.3 %rdg. ±2.2mV	-	-	

CM7290 (CM7291) + CT7000series Combined Accuracies

CT7044, CT7045, CT7046 [AC FLEXIBLE CURRENT SENSOR]

Rev.0
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(*1) When the Filter is set to ON, guaranteed accuracy is 66Hz or less.

1. Display Accuracy

-1. DC Display (DC function)

Cannot be set.

-2. AC display (AC function)

(1) AC RMS

CM7290 range	Amplitude (RMS)	Frequency Bands		Addition Accuracy	
		45Hz ≤ f ≤ 66Hz		Filter: ON (*1)	SLOW mode
60.00A	3.00A ≤ I ≤ 60.00A	±1.8 %rdg. ±1.58A		±0.5% rdg. ± 0.05A	± 0.05A
600.0A	30.0A ≤ I ≤ 600.0A	±1.8 %rdg. ±2.3A		±0.5% rdg. ± 0.5A	± 0.5A
6000A	300A ≤ I ≤ 6000A	±1.8 %rdg. ±23A		±0.5% rdg. ± 5A	± 5A

(2) AC PEAK

CM7290 range	Amplitude (PEAK)	Frequency Bands		Addition Accuracy	
		45Hz ≤ f ≤ 66Hz		Filter: ON (*1)	SLOW mode
150.0A	-	not guaranteed		-	-
1500A	-			-	-
15.00kA	-			-	-

-3. DC +AC Display (AC+DC function)

Cannot be set.

-4. Frequency Display (Hz function)

CM7290 range	Amplitude (RMS)	Frequency Bands		Addition Accuracy	
		9.00Hz ≤ f ≤ 99.99Hz	90.0Hz ≤ f ≤ 999.9Hz	Filter: ON (*1)	SLOW mode
9.999Hz	3.00A ≤ I ≤ 6000A	unsuitable	unsuitable	-	-
99.99Hz		±0.1 %rdg. ±0.01Hz		-	-
999.9Hz		not guaranteed	±0.1 %rdg. ±0.1Hz	-	-

2. Output Accuracy

-1. DC Output (DC function)

Cannot be set.

-2. AC Output (AC function)

(1) WAVE Output

CM7290 range (Output rate)	Amplitude (RMS)	Frequency Bands		Addition Accuracy	
		45Hz ≤ f ≤ 66Hz		Filter: ON (*1)	SLOW mode
60.00A (10mV/A)	0.00A ≤ I ≤ 60.00A	±2 %rdg. ±15.8mV		±0.5% rdg. ± 0.5mV	-
600.0A (1mV/A)	0.0A ≤ I ≤ 600.0A	±2 %rdg. ±2.3mV		±0.5% rdg. ± 0.5mV	-
6000A (0.1mV/A)	0A ≤ I ≤ 6000A	±2 %rdg. ±2.3mV		±0.5% rdg. ± 0.5mV	-

(2) RMS Output

CM7290 range (Output rate)	Amplitude (RMS)	Frequency Bands		Addition Accuracy	
		45Hz ≤ f ≤ 66Hz		Filter: ON (*1)	SLOW mode
60.00A (10mV/A)	0.00A ≤ I ≤ 60.00A	±2.3 %rdg. ±15.8mV		±0.5% rdg. ± 0.5mV	-
600.0A (1mV/A)	0.0A ≤ I ≤ 600.0A	±2.3 %rdg. ±2.3mV		±0.5% rdg. ± 0.5mV	-
6000A (0.1mV/A)	0A < I ≤ 6000A	±2.3 %rdg. ±2.3mV		±0.5% rdg. ± 0.5mV	-

(3) PEAK Output

CM7290 range (Output rate)	Amplitude (PEAK)	Frequency Bands		Addition Accuracy	
		45Hz ≤ f ≤ 66Hz		Filter: ON (*1)	SLOW mode
60.00A (10mV/A)	-	not guaranteed		-	-
600.0A (1mV/A)	-			-	-
6000A (0.1mV/A)	-			-	-

-3. DC+AC Output (AD+DC function)

Cannot be set.

-4. Frequency Output (Hz function)

(1) FREQ Output

CM7290 range (Output rate)	Amplitude (RMS)	Frequency Bands		Addition Accuracy	
		9.00Hz ≤ f ≤ 99.99Hz	90.0Hz ≤ f ≤ 999.9Hz	Filter: ON (*1)	SLOW mode
9.999Hz (100mV/Hz)	3.00A ≤ I ≤ 6000A	unsuitable	unsuitable	-	-
99.99Hz (10mV/Hz)		±0.3 %rdg. ±2.2mV		-	-
999.9Hz (1mV/Hz)		not guaranteed	±0.3 %rdg. ±2.2mV	-	-

CM7290 (CM7291) + CT7000series Combined Accuracies

CT7126 [AC CURRENT SENSOR]

Rev.0
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(*1) When the Filter is set to ON, guaranteed accuracy is 66Hz or less.

1. DisplayAccuracy

-1. DC Display (DC function)

Cannot be set.

-2.AC display (AC function)

(1)AC RMS

CM7290 range	Amplitude (RMS)	Frequency Bands			Addition Accuracy	
		10Hz ≤ f < 45Hz	45Hz ≤ f ≤ 66Hz	66Hz < f ≤ 1kHz	Filter: ON (*1)	SLOW mode
600.0mA	40.0mA ≤ I ≤ 600.0mA	±2.6 %rdg. ±7.5mA	±1.6 %rdg. ±7.3mA	±3 %rdg. ±7.5mA	±0.5% rdg. ± 0.5mA	± 0.5mA
6.000A	0.300A ≤ I ≤ 6.000A	±1.6 %rdg. ±0.016A	±0.6 %rdg. ±0.014A	±2 %rdg. ±0.016A	±0.5% rdg. ± 0.005A	± 0.005A
60.00A	3.00A < I ≤ 60.00A	±1.6 %rdg. ±0.11A	±0.6 %rdg. ±0.09A	±2 %rdg. ±0.11A	±0.5% rdg. ± 0.05A	± 0.05A

(2)AC PEAK

CM7290 range	Amplitude (PEAK)	Frequency Bands			Addition Accuracy	
		10Hz ≤ f < 45Hz	45Hz ≤ f ≤ 66Hz	66Hz < f ≤ 1kHz	Filter: ON (*1)	SLOW mode
1.500A	-	not guaranteed	not guaranteed	not guaranteed	-	-
15.00A	-				-	-
150.0A	-				-	-

-3. DC +AC Display (AC+DC function)

Cannot be set.

-4. Frequency Display (Hz function)

CM7290 range	Amplitude (RMS)	Frequency Bands		Addition Accuracy	
		9.00Hz ≤ f ≤ 99.99Hz	90.0Hz ≤ f ≤ 999.9Hz	Filter: ON (*1)	SLOW mode
9.999Hz	40.0mA ≤ I ≤ 60.00A	unsuitable	unsuitable	-	-
99.99Hz		±0.1 %rdg. ±0.01Hz	-	-	
999.9Hz		not guaranteed	±0.1 %rdg. ±0.1Hz	-	-

2. OutputAccuracy

-1. DC Output (DC function)

Cannot be set.

-2.AC Output (AC function)

(1)WAVE Output

CM7290 range (Output rate)	Amplitude (RMS)	Frequency Bands			Addition Accuracy	
		10Hz ≤ f < 45Hz	45Hz ≤ f ≤ 66Hz	66Hz < f ≤ 1kHz	Filter: ON (*1)	SLOW mode
600.0mA (1mV/1mA)	40.0mA ≤ I ≤ 600.0mA	±2.8 %rdg. ±7.5mV	±1.8 %rdg. ±7.3mV	±3.2 %rdg. ±7.5mV	-	-
6.000A (100mV/A)	0.000A ≤ I ≤ 6.000A	±1.8 %rdg. ±1.6mV	±0.8 %rdg. ±1.4mV	±2.2 %rdg. ±1.6mV	-	-
60.00A (10mV/A)	0.00A < I ≤ 60.00A	±1.8 %rdg. ±1.06mV	±0.8 %rdg. ±0.86mV	±2.2 %rdg. ±1.06mV	-	-

(2) RMS Output

CM7290 range (Output rate)	Amplitude (RMS)	Frequency Bands			Addition Accuracy	
		10Hz ≤ f < 45Hz	45Hz ≤ f ≤ 66Hz	66Hz < f ≤ 1kHz	Filter: ON (*1)	SLOW mode
600.0mA (1mV/1mA)	40.0mA ≤ I ≤ 600.0mA	±2.8 %rdg. ±7.5mV	±1.8 %rdg. ±7.3mV	±3.2 %rdg. ±7.5mV	-	-
6.000A (100mV/A)	0.300A ≤ I ≤ 6.000A	±1.8 %rdg. ±1.6mV	±1.1 %rdg. ±1.4mV	±2.2 %rdg. ±1.6mV	-	-
60.00A (10mV/A)	3.00A < I ≤ 60.00A	±1.8 %rdg. ±1.06mV	±1.1 %rdg. ±0.86mV	±2.2 %rdg. ±1.06mV	-	-

(3) PEAK Output

CM7290 range (Output rate)	Amplitude (PEAK)	Frequency Bands			Addition Accuracy	
		10Hz ≤ f < 45Hz	45Hz ≤ f ≤ 66Hz	66Hz < f ≤ 1kHz	Filter: ON (*1)	SLOW mode
1500mA (1000mV/A)	-	not guaranteed	not guaranteed	not guaranteed	-	-
15.00A (100mV/A)	-				-	-
150.0A (10mV/A)	-				-	-

-3. DC+AC Output (AD+DC function)

Cannot be set.

-4. Frequency Output (Hz function)

(1) FREQ Output

CM7290 range (Output rate)	Amplitude (RMS)	Frequency Bands		Addition Accuracy	
		9.00Hz ≤ f ≤ 99.99Hz	90.0Hz ≤ f ≤ 999.9Hz	Filter: ON (*1)	SLOW mode
9.999Hz (100mV/Hz)	40.0mA ≤ I ≤ 60.00A	unsuitable	unsuitable	-	-
99.99Hz (10mV/Hz)		±0.3 %rdg. ±2.2mV	-	-	
999.9Hz (1mV/Hz)		not guaranteed	±0.3 %rdg. ±2.2mV	-	-

CM7290 (CM7291) + CT7000series Combined Accuracies

CT7131 [AC CURRENT SENSOR]

Rev.0
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(*1) When the Filter is set to ON, guaranteed accuracy is 66Hz or less.

1. DisplayAccuracy

-1. DC Display (DC function)

Cannot be set.

-2.AC display (AC function)

(1)AC RMS

CM7290 range	Amplitude (RMS)	Frequency Bands			Addition Accuracy	
		$10\text{Hz} \leq f < 45\text{Hz}$	$45\text{Hz} \leq f \leq 66\text{Hz}$	$66\text{Hz} < f \leq 1\text{kHz}$	Filter: ON (*1)	SLOW mode
60.00A	$3.00\text{A} \leq I \leq 60.00\text{A}$	$\pm 1.6\% \text{rdg.} \pm 0.12\text{A}$	$\pm 0.6\% \text{rdg.} \pm 0.1\text{A}$	$\pm 1.8\% \text{rdg.} \pm 0.12\text{A}$	$\pm 0.5\% \text{rdg.} \pm 0.05\text{A}$	$\pm 0.5\text{A}$
100.0A	$30.0\text{A} < I \leq 100.0\text{A}$	$\pm 1.6\% \text{rdg.} \pm 1.02\text{A}$	$\pm 0.6\% \text{rdg.} \pm 0.82\text{A}$	$\pm 1.8\% \text{rdg.} \pm 1.02\text{A}$	$\pm 0.5\% \text{rdg.} \pm 0.5\text{A}$	$\pm 5\text{A}$

(2)AC PEAK

CM7290 range	Amplitude (PEAK)	Frequency Bands			Addition Accuracy	
		$10\text{Hz} \leq f < 45\text{Hz}$	$45\text{Hz} \leq f \leq 66\text{Hz}$	$66\text{Hz} < f \leq 1\text{kHz}$	Filter: ON (*1)	SLOW mode
150.0A	-	not guaranteed	not guaranteed	not guaranteed	-	-
300.0A	-	not guaranteed	not guaranteed	not guaranteed	-	-

-3. DC +AC Display (AC+DC function)

Cannot be set.

-4. Frequency Display (Hz function)

CM7290 range	Amplitude (RMS)	Frequency Bands		Addition Accuracy	
		$9.00\text{Hz} \leq f \leq 99.99\text{Hz}$	$90.0\text{Hz} \leq f \leq 999.9\text{Hz}$	Filter: ON (*1)	SLOW mode
9.999Hz	$3.00\text{A} \leq I \leq 100.0\text{A}$	unsuitable	unsuitable	-	-
99.99Hz		$\pm 0.1\% \text{rdg.} \pm 0.01\text{Hz}$		-	-
999.9Hz		not guaranteed	$\pm 0.1\% \text{rdg.} \pm 0.1\text{Hz}$	-	-

2. OutputAccuracy

-1. DC Output (DC function)

Cannot be set.

-2.AC Output (AC function)

(1)WAVE Output

CM7290 range (Output rate)	Amplitude (RMS)	Frequency Bands			Addition Accuracy	
		$10\text{Hz} \leq f < 45\text{Hz}$	$45\text{Hz} \leq f \leq 66\text{Hz}$	$66\text{Hz} < f \leq 1\text{kHz}$	Filter: ON (*1)	SLOW mode
60.00A (10mV/1A)	$0.00\text{A} \leq I \leq 60.00\text{A}$	$\pm 1.8\% \text{rdg.} \pm 1.2\text{mV}$	$\pm 0.8\% \text{rdg.} \pm 1\text{mV}$	$\pm 2\% \text{rdg.} \pm 1.2\text{mV}$	$\pm 0.5\% \text{rdg.} \pm 0.5\text{mV}$	-
100.0A (1mV/A)	$0.0\text{A} \leq I \leq 100.0\text{A}$	$\pm 1.8\% \text{rdg.} \pm 1.02\text{mV}$	$\pm 0.8\% \text{rdg.} \pm 0.82\text{mV}$	$\pm 2\% \text{rdg.} \pm 1.02\text{mV}$	$\pm 0.5\% \text{rdg.} \pm 0.5\text{mV}$	-

(2) RMS Output

CM7290 range (Output rate)	Amplitude (RMS)	Frequency Bands			Addition Accuracy	
		$10\text{Hz} \leq f < 45\text{Hz}$	$45\text{Hz} \leq f \leq 66\text{Hz}$	$66\text{Hz} < f \leq 1\text{kHz}$	Filter: ON (*1)	SLOW mode
60.00A (10mV/1A)	$3.00\text{A} \leq I \leq 60.00\text{A}$	$\pm 1.8\% \text{rdg.} \pm 1.2\text{mV}$	$\pm 1.1\% \text{rdg.} \pm 1\text{mV}$	$\pm 2\% \text{rdg.} \pm 1.2\text{mV}$	$\pm 0.5\% \text{rdg.} \pm 0.5\text{mV}$	-
100.0A (1mV/A)	$30.0\text{A} \leq I \leq 100.0\text{A}$	$\pm 1.8\% \text{rdg.} \pm 1.02\text{mV}$	$\pm 1.1\% \text{rdg.} \pm 0.82\text{mV}$	$\pm 2\% \text{rdg.} \pm 1.02\text{mV}$	$\pm 0.5\% \text{rdg.} \pm 0.5\text{mV}$	-

(3) PEAK Output

CM7290 range (Output rate)	Amplitude (PEAK)	Frequency Bands			Addition Accuracy	
		$10\text{Hz} \leq f < 45\text{Hz}$	$45\text{Hz} \leq f \leq 66\text{Hz}$	$66\text{Hz} < f \leq 1\text{kHz}$	Filter: ON (*1)	SLOW mode
150.0A (10mV/A)	-	not guaranteed	not guaranteed	not guaranteed	-	-
300.0A (1mV/A)	-	not guaranteed	not guaranteed	not guaranteed	-	-

-3. DC+AC Output (AD+DC function)

Cannot be set.

-4. Frequency Output (Hz function)

(1) FREQ Output

CM7290 range (Output rate)	Amplitude (RMS)	Frequency Bands		Addition Accuracy	
		$9.00\text{Hz} \leq f \leq 99.99\text{Hz}$	$90.0\text{Hz} \leq f \leq 999.9\text{Hz}$	Filter: ON (*1)	SLOW mode
9.999Hz (100mV/Hz)	$3.00\text{A} \leq I \leq 100.0\text{A}$	unsuitable	unsuitable	-	-
99.99Hz (10mV/Hz)		$\pm 0.3\% \text{rdg.} \pm 2.2\text{mV}$		-	-
999.9Hz (1mV/Hz)		not guaranteed	$\pm 0.3\% \text{rdg.} \pm 2.2\text{mV}$	-	-

CM7290 (CM7291) + CT7000series Combined Accuracies

CT7136 [AC CURRENT SENSOR]

Rev.0
1/1

(*1) When the Filter is set to ON, guaranteed accuracy is 66Hz or less.

1. DisplayAccuracy

-1. DC Display (DC function)

Cannot be set.

-2.AC display (AC function)

(1)AC RMS

CM7290 range	Amplitude (RMS)	Frequency Bands			Addition Accuracy	
		10Hz ≤ f < 45Hz	45Hz ≤ f ≤ 66Hz	66Hz < f ≤ 1kHz	Filter: ON (*1)	SLOW mode
6.000A	0.400A ≤ I ≤ 6.000A	±2.6 %rdg. ±0.075A	±1.6 %rdg. ±0.073A	±2.8 %rdg. ±0.135A	±0.5% rdg. ± 0.005A	± 0.005A
60.00A	3.00A ≤ I ≤ 60.00A	±1.6 %rdg. ±0.16A	±0.6 %rdg. ±0.14A	±1.8 %rdg. ±0.22A	±0.5% rdg. ± 0.05A	± 0.05A
600.0A	30.0A ≤ I ≤ 600.0A	±1.6 %rdg. ±1.06A	±0.6 %rdg. ±0.86A	±1.8 %rdg. ±1.12A	±0.5% rdg. ± 0.5A	± 0.5A

(2)AC PEAK

CM7290 range	Amplitude (PEAK)	Frequency Bands			Addition Accuracy	
		10Hz ≤ f < 45Hz	45Hz ≤ f ≤ 66Hz	66Hz < f ≤ 1kHz	Filter: ON (*1)	SLOW mode
15.00A	-	not guaranteed	not guaranteed	not guaranteed	-	-
150.0A	-				-	-
1500A	-				-	-

-3. DC +AC Display (AC+DC function)

Cannot be set.

-4. Frequency Display (Hz function)

CM7290 range	Amplitude (RMS)	Frequency Bands		Addition Accuracy	
		9.00Hz ≤ f ≤ 99.99Hz	90.0Hz ≤ f ≤ 999.9Hz	Filter: ON (*1)	SLOW mode
9.999Hz	0.400A ≤ I ≤ 600.0A	unsuitable	unsuitable	-	-
99.99Hz		±0.1 %rdg. ±0.01Hz		-	-
999.9Hz		not guaranteed	±0.1 %rdg. ±0.1Hz	-	-

2. OutputAccuracy

-1. DC Output (DC function)

Cannot be set.

-2.AC Output (AC function)

(1)WAVE Output

CM7290 range (Output rate)	Amplitude (RMS)	Frequency Bands			Addition Accuracy	
		10Hz ≤ f < 45Hz	45Hz ≤ f ≤ 66Hz	66Hz < f ≤ 1kHz	Filter: ON (*1)	SLOW mode
6.000A (100mV/A)	0.400A ≤ I ≤ 6.000A	±2.8 %rdg. ±7.5mV	±1.8 %rdg. ±7.3mV	±3 %rdg. ±13.5mV	±0.5% rdg. ± 0.5mV	-
60.00A (10mV/A)	0.00A ≤ I ≤ 60.00A	±1.8 %rdg. ±1.6mV	±0.8 %rdg. ±1.4mV	±2 %rdg. ±2.2mV	±0.5% rdg. ± 0.5mV	-
600.0A (1mV/A)	0.0A < I ≤ 600.0A	±1.8 %rdg. ±1.06mV	±0.8 %rdg. ±0.86mV	±2 %rdg. ±1.12mV	±0.5% rdg. ± 0.5mV	-

(2) RMS Output

CM7290 range (Output rate)	Amplitude (RMS)	Frequency Bands			Addition Accuracy	
		10Hz ≤ f < 45Hz	45Hz ≤ f ≤ 66Hz	66Hz < f ≤ 1kHz	Filter: ON (*1)	SLOW mode
6.000A (100mV/A)	0.400A ≤ I ≤ 6.000A	±2.8 %rdg. ±7.5mV	±1.8 %rdg. ±7.3mV	±3 %rdg. ±13.5mV	±0.5% rdg. ± 0.5mV	-
60.00A (10mV/A)	3.00A ≤ I ≤ 60.00A	±1.8 %rdg. ±1.6mV	±1.1 %rdg. ±1.4mV	±2 %rdg. ±2.2mV	±0.5% rdg. ± 0.5mV	-
600.0A (1mV/A)	30.0A ≤ I ≤ 600.0A	±1.8 %rdg. ±1.06mV	±1.1 %rdg. ±0.86mV	±2 %rdg. ±1.12mV	±0.5% rdg. ± 0.5mV	-

(3) PEAK Output

CM7290 range (Output rate)	Amplitude (PEAK)	Frequency Bands			Addition Accuracy	
		10Hz ≤ f < 45Hz	45Hz ≤ f ≤ 66Hz	66Hz < f ≤ 1kHz	Filter: ON (*1)	SLOW mode
15.00A (100mV/A)	-	not guaranteed	not guaranteed	not guaranteed	-	-
150.0A (10mV/A)	-				-	-
1500A (1mV/A)	-				-	-

-3. DC+AC Output (AD+DC function)

Cannot be set.

-4. Frequency Output (Hz function)

(1) FREQ Output

CM7290 range (Output rate)	Amplitude (RMS)	Frequency Bands		Addition Accuracy	
		9.00Hz ≤ f ≤ 99.99Hz	90.0Hz ≤ f ≤ 999.9Hz	Filter: ON (*1)	SLOW mode
9.999Hz (100mV/Hz)	0.400A ≤ I ≤ 600.0A	unsuitable	unsuitable	-	-
99.99Hz (10mV/Hz)		±0.3 %rdg. ±2.2mV		-	-
999.9Hz (1mV/Hz)		not guaranteed	±0.3 %rdg. ±2.2mV	-	-

CM7290 (CM7291) + CT7000series Combined Accuracies

CT7116 [AC LEAKAGE CURRENT SENSOR]

Rev.0
1/1

(*1) When the Filter is set to ON, guaranteed accuracy is 66Hz or less.

1. Display Accuracy

-1. DC Display (DC function)
Cannot be set.

-2. AC display (AC function)
(1) AC RMS

CM7290 range	Amplitude (RMS)	Frequency Bands			Addition Accuracy	
		10Hz ≤ f < 45Hz	45Hz ≤ f ≤ 66Hz	66Hz < f ≤ 1kHz	Filter: ON (*1)	SLOW mode
60.00mA	4.00mA ≤ I ≤ 60.00mA	±4.8 %rdg. ±6.15mA	±2.3 %rdg. ±3.13mA	±5 %rdg. ±6.15mA	±0.5% rdg. ± 0.05mA	± 0.05mA
600.0mA	30.0mA ≤ I ≤ 600.0mA	±3.8 %rdg. ±7mA	±1.3 %rdg. ±3.8mA	±4 %rdg. ±7mA	±0.5% rdg. ± 0.5mA	± 0.5mA
6.000A	0.300A ≤ I ≤ 6.000A	±3.8 %rdg. ±0.016A	±1.3 %rdg. ±0.011A	±4 %rdg. ±0.016A	±0.5% rdg. ± 0.005A	± 0.005A

(2) AC PEAK

CM7290 range	Amplitude (PEAK)	Frequency Bands			Addition Accuracy	
		10Hz ≤ f < 45Hz	45Hz ≤ f ≤ 66Hz	66Hz < f ≤ 1kHz	Filter: ON (*1)	SLOW mode
150.0mA	-	-	-	-	-	-
1500mA	-	not guaranteed	not guaranteed	not guaranteed	-	-
15.00A	-	-	-	-	-	-

-3. DC +AC Display (AC+DC function)
Cannot be set.

-4. Frequency Display (Hz function)

CM7290 range	Amplitude (RMS)	Frequency Bands		Addition Accuracy	
		9.00Hz ≤ f ≤ 99.99Hz	90.0Hz ≤ f ≤ 999.9Hz	Filter: ON (*1)	SLOW mode
9.999Hz	4.00mA ≤ I ≤ 6.000A	unsuitable	unsuitable	-	-
99.99Hz		±0.1 %rdg. ±0.01Hz	-	-	-
999.9Hz		not guaranteed	±0.1 %rdg. ±0.1Hz	-	-

2. Output Accuracy

-1. DC Output (DC function)
Cannot be set.

-2. AC Output (AC function)
(1) WAVE Output

CM7290 range (Output rate)	Amplitude (RMS)	Frequency Bands			Addition Accuracy	
		10Hz ≤ f < 45Hz	45Hz ≤ f ≤ 66Hz	66Hz < f ≤ 1kHz	Filter: ON (*1)	SLOW mode
60.00mA (10mV/1mA)	4.00mA ≤ I ≤ 60.00mA	±5 %rdg. ±61.5mV	±2.5 %rdg. ±31.3mV	±5.2 %rdg. ±61.5mV	±0.5% rdg. ± 0.5mV	-
600.0mA (1mV/1mA)	0.0mA ≤ I ≤ 600.0mA	±4 %rdg. ±7mV	±1.5 %rdg. ±3.8mV	±4.2 %rdg. ±7mV	±0.5% rdg. ± 0.5mV	-
6.000A (100mV/A)	0.000A ≤ I ≤ 6.000A	±4 %rdg. ±1.6mV	±1.5 %rdg. ±1.1mV	±4.2 %rdg. ±1.6mV	±0.5% rdg. ± 0.5mV	-

(2) RMS Output

CM7290 range (Output rate)	Amplitude (RMS)	Frequency Bands			Addition Accuracy	
		10Hz ≤ f < 45Hz	45Hz ≤ f ≤ 66Hz	66Hz < f ≤ 1kHz	Filter: ON (*1)	SLOW mode
60.00mA (10mV/1mA)	4.00mA ≤ I ≤ 60.00mA	±5 %rdg. ±61.5mV	±2.5 %rdg. ±31.3mV	±5.2 %rdg. ±61.5mV	±0.5% rdg. ± 0.5mV	-
600.0mA (1mV/1mA)	30.0mA ≤ I ≤ 600.0mA	±4 %rdg. ±7mV	±1.8 %rdg. ±3.8mV	±4.2 %rdg. ±7mV	±0.5% rdg. ± 0.5mV	-
6.000A (100mV/A)	0.300A ≤ I ≤ 6.000A	±4 %rdg. ±1.6mV	±1.8 %rdg. ±1.1mV	±4.2 %rdg. ±1.6mV	±0.5% rdg. ± 0.5mV	-

(3) PEAK Output

CM7290 range (Output rate)	Amplitude (PEAK)	Frequency Bands			Addition Accuracy	
		10Hz ≤ f < 45Hz	45Hz ≤ f ≤ 66Hz	66Hz < f ≤ 1kHz	Filter: ON (*1)	SLOW mode
150.0mA (10mV/mA)	-	-	-	-	-	-
1500mA (1mV/mA)	-	not guaranteed	not guaranteed	not guaranteed	-	-
15.00A (100mV/A)	-	-	-	-	-	-

-3. DC+AC Output (AD+DC function)
Cannot be set.

-4. Frequency Output (Hz function)

(1) FREQ Output

CM7290 range (Output rate)	Amplitude (RMS)	Frequency Bands		Addition Accuracy	
		9.00Hz ≤ f ≤ 99.99Hz	90.0Hz ≤ f ≤ 999.9Hz	Filter: ON (*1)	SLOW mode
9.999Hz (100mV/Hz)	4.00mA ≤ I ≤ 6.000A	unsuitable	unsuitable	-	-
99.99Hz (10mV/Hz)		±0.3 %rdg. ±2.2mV	-	-	-
999.9Hz (1mV/Hz)		not guaranteed	±0.3 %rdg. ±2.2mV	-	-