

PORTABLE POWER FACTOR METERS 2039

Model 2039 is a revolutionary series of portable wattmeters in which a power factor is used to operate the DC indicator. This is done using a transducer which provides a DC current proportionate to the voltage-current phase by means of a circuit. Model 2039 can be used in single-phase and balanced three-phase circuits. The electronic transducer, combined with a high sensitivity moving coil type indicator based on YOKOGAWA's proprietary taut-band suspension system, provides a level of performance not possible with conventional power factor meters.



Details

Specifications - Model 2039 01

Rated Current	0.2/1 A
Rated Voltage	120V (Used between 60 and 300 V.)
Operating Principle	Rectifier type
Class	JIS C 1102 : 1997 Class 3.0
Operating Position	Horizontal
Rated Frequency	45 ~ 65 Hz
Scale Length	Approximately 135 mm (Deflection Angle: 85°)
Scale	Lead 0-0.3 to 1.0 to 0.3-0 lag (with phase angle scale)
Effective Measurement Range	Lead 0.5 to 1.0 to 0.5 lag
Approx. Consumed Power Voltage Circuit (120 V)	0.14 VA
Approx. Current Circuit (5 A)	2.4 VA
Operating Temperature Range	0 ~ 40 °C
Operating Humidity Range	30 ~ 75% RH
Storage Temperature Range	-10 ~ 50 °C
Storage Humidity Range	25 ~ 80% RH
Approx. External Dimension	260 x 180 x 115 mm
Approx. External Weight	2.9 kg
Optional Accessories	2292 01 Carrying case

Features

- - For both single-phase and three-phase (balanced circuit).
 - Excellent current characteristic: 20 ~ 200% of rated current (short time period)
 - Wide range of applicable voltages: 60 ~ 300 V AC
 - Phase angle scale included
 - Taut-band suspension system eliminates friction and provides strong resistance to shock impact.

Specifications - Model 2039 02

Rated Current	1/5A
Rated Voltage	120V (Used between 60 and 300 V.)

Operating Principle	Rectifier type
Class	JIS C 1102 : 1997 Class 3.0
Operating Position	Horizontal
Rated Frequency	45 ~ 65 Hz
Scale Length	Approximately 135 mm (Deflection Angle: 85°)
Scale	Lead 0-0.3 to 1.0 to 0.3-0 lag (with phase angle scale)
Effective Measurement Range	Lead 0.5 to 1.0 to 0.5 lag
Approx. Consumed Power Voltage Circuit (120 V)	0.14 VA
Approx. Current Circuit (5 A)	2.4 VA
Operating Temperature Range	0 ~ 40 °C
Operating Humidity Range	30 ~ 75% RH
Storage Temperature Range	-10 ~ 50 °C
Storage Humidity Range	25 ~ 80% RH
Approx. External Dimension	260 x 180 x 115 mm
Approx. External Weight	2.9 kg
Optional Accessories	2292 01 Carrying case

Features

- For both single-phase and three-phase (balanced circuit).
- Excellent current characteristic: 20 ~ 200% of rated current (short time period)
- Wide range of applicable voltages: 60 ~ 300 V AC
- Phase angle scale included
- Taut-band suspension system eliminates friction and provides strong resistance to shock impact.

Specifications - Model 2039 03

Rated Current	5/25A
Rated Voltage	120V (Used between 60 and 300 V.)
Operating Principle	Rectifier type
Class	JIS C 1102 : 1997 Class 3.0
Operating Position	Horizontal
Rated Frequency	45 ~ 65 Hz
Scale Length	Approximately 135 mm (Deflection Angle: 85°)
Scale	Lead 0-0.3 to 1.0 to 0.3-0 lag (with phase angle scale)
Effective Measurement Range	Lead 0.5 to 1.0 to 0.5 lag
Approx. Consumed Power Voltage Circuit (120 V)	0.14 VA
Approx. Current Circuit (5 A)	2.4 VA
Operating Temperature Range	0 ~ 40 °C
Operating Humidity Range	30 ~ 75% RH
Storage Temperature Range	-10 ~ 50 °C
Storage Humidity Range	25 ~ 80% RH
Approx. External Dimension	260 x 180 x 115 mm
Approx. External Weight	2.9 kg
Optional Accessories	2292 01 Carrying case

Features


- For both single-phase and three-phase (balanced circuit).
- Excellent current characteristic: 20 ~ 200% of rated current (short time period)
- Wide range of applicable voltages: 60 ~ 300 V AC
- Phase angle scale included
- Taut-band suspension system eliminates friction and provides strong resistance to shock impact.

Model Numbers

Model	Description
2039 03	5/25A, 45 ~ 65 Hz, 0 ~ 40 °C, 260 x 180 x 115 mm

2039 02	1/5A, 45 ~ 65 Hz, 0 ~ 40 □C, 260 x 180 x 115 mm
2039 01	0.2/1 A, 45 ~ 65 Hz, 0 ~ 40 □C, 260 x 180 x 115 mm

Specifications

Name	Description	File Type	
List of JIS Mark Indications		 54 KB	Download

List of JIS Mark Indications

Product	Model		Specifications	JIS mark	Product	Model		Specifications	JIS mark			
DC ammeter (4 ranges)	2011	31	3/10/30/100 μ A	None	Needle-indicator frequency meter	2038	31	45~65Hz 120/240V	None			
		32	10/30/100/300 μ A				32	20~100Hz 120/240V				
		33	0.1/0.3/1/3 mA	Ⓔ			03	100~300Hz 120/240V	None			
		34	1/3/10/30 mA				04	300~500Hz 120/240V				
		35	10/30/100/300 mA				11	45~55Hz 120/240V				
		36	0.1/0.3/1/3 A				12	55~65Hz 120/240V				
		37	1/3/10/30 A									
DC voltmeter (4 ranges)	2011	38	0.3/1/3/10 V	Ⓔ	Power factor meter	2039	01	0.2/1A 120V	None			
		39	3/10/30/100 V				02	1/5A 120V				
		40	30/100/300/1000 V				03	5/25A 120V				
DC ammeter	2012	41	(50mV)	Ⓔ	Single-phase wattmeter	2041	01	0.2/1A 120/240V	Ⓔ			
DC voltmeter		42	(3 V)	Ⓔ			02	1/5A 120/240V				
DC ammeter and voltmeter	2012	00	17 ranges	Ⓔ				03		5/25A 120/240V		
AC ammeter (2 ranges)	2013	01	20/100 mA	Ⓔ	Single-phase low power factor wattmeter	2041	11	0.2/1A 120/240V Power factor: 0.2	None			
		02	50/250 mA				12	1/5A 120/240V Power factor: 0.2				
		03	100/500 mA				13	5/25A 120/240V Power factor: 0.2				
		04	0.2/1 A				21	0.2/1A 30/60V Power factor: 0.2				
		05	0.5/2.5 A				22	1/5A 30/60V Power factor: 0.2				
		AC ammeter (4 ranges)	2013		06	1/5 A	Ⓔ	Three-phase wattmeter	2042	01	0.2/1A 120/240V	Ⓔ
					07	2/10 A				02	1/5A 120/240V	
					08	5/25 A				03	5/25A 120/240V	
					09	10/50 A						
10	20/50/100/200 mA			Ⓔ	Miniature DC ammeter	2051				01	30/100/300/1000/3000 μ A	
11	0.1/0.2/0.5/1 A	02	0.3/1/3/10/30 mA									
12	0.5/1/2/5 A	03	10/30/100/300/1000 mA									
13	2/5/10/20 A	04	0.3/1/3/10/30 A									
AC voltmeter (2 ranges)	2013	14	10/20/50/100 A				Ⓔ	Miniature DC voltmeter	2051	11	\pm 0.15/0.5/1.5/5/15 mA	Ⓔ
		15	15/30 V	12						\pm 0.3/1/3/10/30 mA		
		16	30/75 V	13						\pm 5/15/50/150/500 mA		
		17	75/150 V	14						\pm 10/30/100/300/1000 mA		
		18	150/300 V	15						\pm 0.15/0.5/1.5/5/15 A		
AC ammeter	2014	19	300/750 V	Ⓔ			Miniature AC ammeter	2052	16	\pm 0.3/1/3/10/30 A	Ⓔ	
		20	(5 A)		05	0.3/1/3/10/30 V						
		21	(150V)		06	3/10/30/100/300 V						
AC ammeter	2014	22	500 (500AT) A	Ⓔ	Miniature AC voltmeter	2053	17	\pm 0.15/0.5/1.5/5/15 V	Ⓔ			
		23	0.5/1/2/5 A				18	\pm 0.3/1/3/10/30 V				
		24	2/5/10/20 A				19	\pm 1.5/5/15/50/150 V				
AC voltmeter (4 ranges) (for 400 Hz)	2014	25	10/20/50/100 A	Ⓔ	Miniature AC ammeter	2052	20	\pm 3/10/30/100/300 V	Ⓔ			
		26	75/150 V				01	0.5/1/2.5 mA				
		27	150/300 V				02	2.5/5/10 mA				
AC ammeter and voltmeter	2014	00	13 ranges	Ⓔ	Miniature AC voltmeter	2053	03	10/25/50 mA		Ⓔ		
High-frequency AC ammeter	2016	01	5/10/20/50 mA	None			04	50/100/250 mA				
		02	20/50/100/200 mA				05	3/7.5/15 V				
High-frequency AC voltmeter	2016	03	100/200/500/1000 mA	None	Miniature AC ammeter	2053	06	15/30/75 V	Ⓔ			
		04	15/30/75/150 V				07	75/150/300 V				
Audio-frequency voltmeter	2017	30	30/75/150/300 V	None						01	0.25/0.5/1 A	Ⓔ
							02	1/2.5/5 A				
							03	5/10/25 A				