AMC Series Programmable Power Meter AC Ammeter&Voltmeter (AI3. AV3)



General

AMC series AC ammeter&voltmeter, adopting AC sampling technology, can directly measure current and voltage of three phase grid. It can be used for local display,and connecting industrial control device to form measuring control system .

Model Description

AMC□ □ - □

- AI3: three phase ammeter
- AV3:three phase voltmeter
- L:LCD blank:LED
- Product shell specification:48,72,96

Function

Type	Function	Option	Option Group
AMC48-AI3 AMC48-AV3	Three phase current (or voltage) measurement;LED;	none	none
AMC48L-AI3 AMC48L-AV3	Three phase current (or voltage) measurement;LCD;		
AMC72-AI3 AMC72-AV3	Three phase current (or voltage) measurement;LED;	1.RS485(Modbus-RTU)(/C) 2.analog output (/M) 3.analog output+ RS485(Modbus-RTU)(/MC) 4.RS485(Modbus-RTU) + 2DI/2DO (/KC)	1.KC 2.CJM
AMC72L-AI3 AMC72L-AV3	Three phase current (or voltage) measurement;LCD;		
,AMC96-AI3 AMC96-AV3	Three phase current (or voltage) measurement;LED;	1.RS485(Modbus-RTU) (IC) 2.at most 3 channels analog output (/M or/M3) 3.analog output+RS485 (Modbus-RTU) (/MC or/M3C) 4.RS485(Modbus-RTU)+ 4DI2D0 (/KC)	1.KC 2.CJM 3.3M+C
AMC96L-AI3 AMC96L-AV3	Three phase current (or voltage) measurement;LCD;		

Note: /J is 1 channel relay alarm output (multiplexing with second channel switching output), for special request, please consult our company

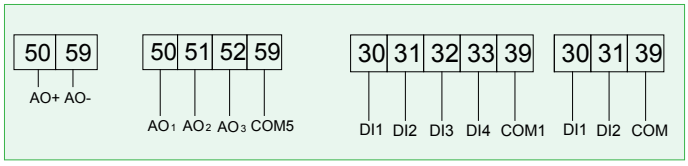
Technical Parameter

Technical Parameter			Value
Input	Rated value		Voltage: AC100V, 220V or 380V, current: AC1A or 5A
	Overload		Voltage: 1.2 times rated value(continuous) 2 times rated value(1 second) Current: 1.2 times rated value(continuous) 10 times rated value (1 second)
	Frequency		45Hz~65Hz
	Power consumption		＜0.5VA
Accuracy			Class 0.5
Function	Display		LED or LCD
	Communication		RS485(Modbus-RTU)
	Alarm		1 channel passive relay,contact capacity 3A/30VDC, 3A/250VAC
	Analog output		DC4~20mA(load < 500Ω)
	Switching	Input	4 channels or 2 channels passive contact Input
		Output	2 channels switching output, NO relay contact, capacity 3A/30VDC, 3A/250VAC
Auxiliary power supply	Voltage range		AC/DC 85~265V
	Power consumption		<5VA
Insulation resistance			≥100MΩ
Environment	Temperature		Operating:-10°C~+55°C Storage: -25°C ~+70°C
	Humidity		≤93%(no condensation)
	Altitude		≤2500m

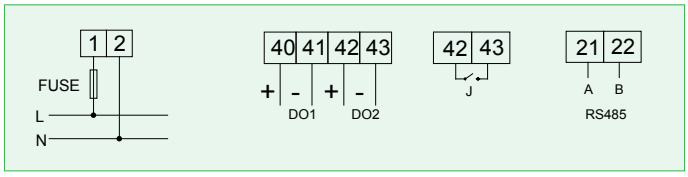
Dimensions

Outline(unit :mm)	Panel Size		Housing Size			Cut-out	
	Width	Height	Width	Height	Depth	Width	Height
48 square	49	49	44	44	93	45	45
72 square	75	75	66.5	66.5	94.3	67	67
96 square	96	96	90	90	77.8	92	92

Wiring

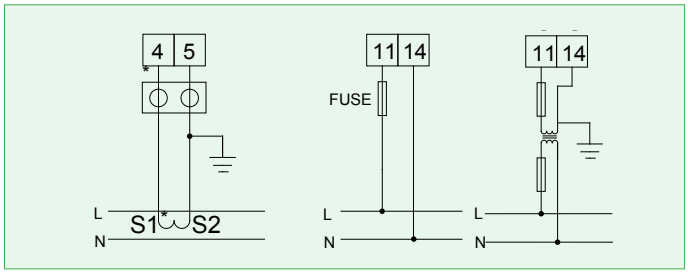


Analog output Switching input



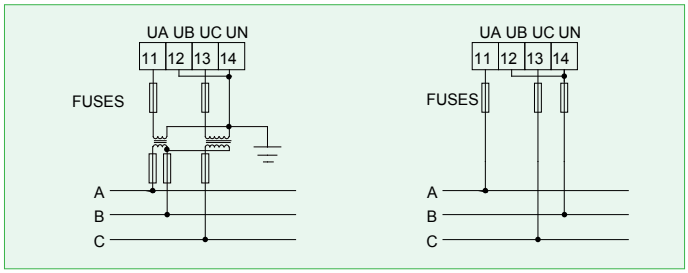
Auxiliary power supply Switching output Alarm output Communication

■ Single phase

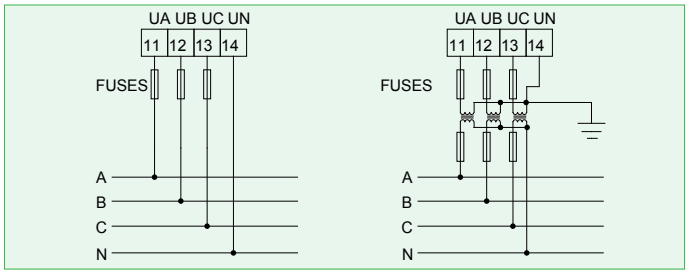


Current input Voltage input

■ Three phase

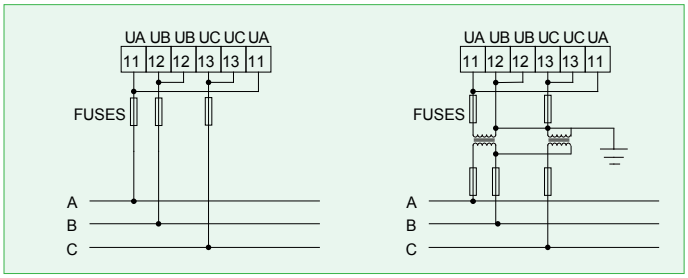


3 phase 3 wire

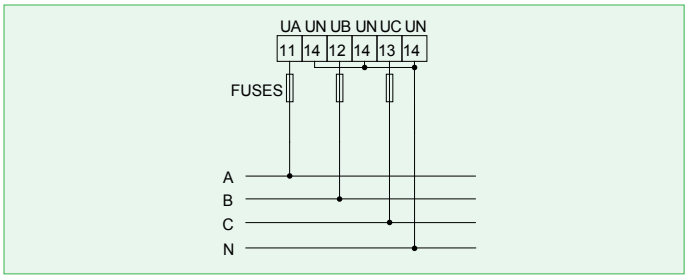


3 phase 4 wire

AMC72/96 Voltage



3 phase 3 wire



3 phase 4 wire

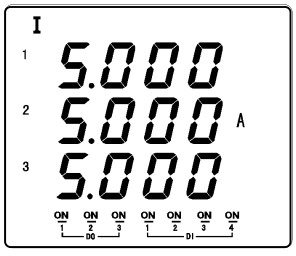
AMC48 Voltage

Operation and Display

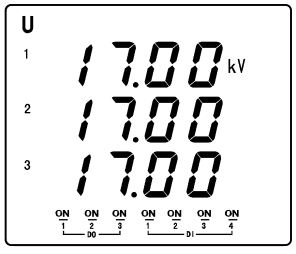
■ Key function description

Key Symbol	Key Name	Function
SET	Menu	Return to previous menu or function switching.
◀	Left	Same level menu shifting left or reducing data.
▶	Right	Same level menu shifting right or increasing data; in normal condition, pressing this key, display alarm information.
↵	Enter	Enter Next level menu or confirm; in normal condition, pressing this key, enter DI/DO Indication and control page.

■ Display menu



Current



Voltage