AMC16Z-ZA Data Center Monitor Device

General

AMC16Z series multi-loop acquisition module is independently designed to meet the needs of the increasingly high precision power distribution management requirements of the data center. It suitable for various all-round intelligent monitoring of terminal distribution equipment.

Technical parameter

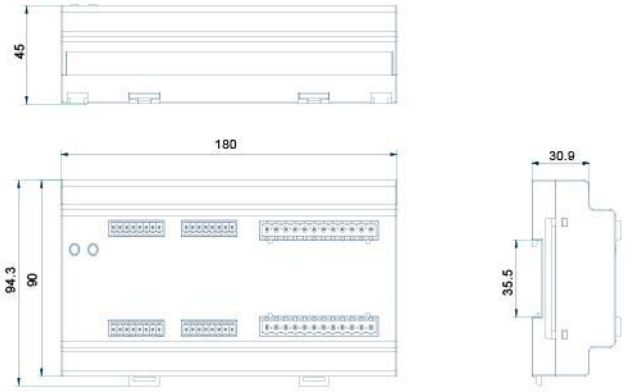
Technical Parameter		Value
Distribution System		AC
Measurement of electrical parameters		A+B independent 2 channels three-phase inlet U,I,P,Q,S,PF,EP,EQ,UN to PG, neutral current 2-63rd harmonic of voltage and current 6 channels passive switch input 2 channels switch output RS485(Modbus-RTU) communication.
Current	Nominal	220VAC
	Range	±20%
	Overload	2 times lasting 1 second(instantaneous)
	CT	XXA/5A
	Range	0～120%
	Overload	1.2 times(continuous), 10 times lasting 1 second(instantaneous)
Input frequency		45～65Hz
Accuracy		Class 0.2(U/I) Class 0.5(P/EP) Class 1(Q/EQ)
Insulation resistance		100MΩ
Switch output		2 channels (3A 250VAC/ 3A 30VDC)
Switch input		6 channels
Communication		RS485(Modbus-RTU)
Installation		DIN 35mm

Working environment

Environment	Temperature	Operation:-15℃～55℃ Storage:-25℃～70℃
	Humidity	Relative humidity≤93%
	Altitude	≤2500m

Dimension drawings(Unit: mm)

AMC16Z series AC precision power distribution monitoring device



Wiring

Terminal No.	Definition	Description	Remark
1	V+	Voltage output	Supply 12V to AMC16Z-FA, AMC16Z-KA, AMC16Z-KD and HMI. The power supply is not allowed to connected with other devices (such as indicator light and buzzer)
2	V-		
4	IA+	Phase-A current	Three-phase current input of channel A
5	IA-		
6	IB+	Phase-B current	
7	IB-		
8	IC+	Phase-C current	
9	IC-		
10	UN	AC voltage null line	Three-phase voltage input of channel A
11	UA	Phase-A AC voltage	
12	UB	Phase-B AC voltage	
13	UC	Phase-C AC voltage	
PG		Ground	
14	IA+	Phase-A current	Three-phase current input of channel B
15	IA-		
16	IB+	Phase-B current	
17	IB-		
18	IC+	Phase-C current	
19	IC-		
20	UN	AC voltage null line	Three-phase voltage input of channel B
21	UA	Phase-A AC voltage	
22	UB	Phase-B AC voltage	
23	UC	Phase-C AC voltage	
PG		Ground	

Terminal No.	Definition	Description	Remark
30	A	RS485 Communication	Connect to HMI or RS485 hub
31	B		
50	DO1	Switch output	Connect buzzer
51			
52	DO2		Connect indicator light
53			
61	Inlet A	Switch input	OF+SD
62			SD
63	Lightning protection A		Lightning protector A
64	Inlet B		OF+SD
65			SD
66	Lightning protection A		Lightning protector B
69	Common port		Switch common port
71	I1	Leakage current	Channel 1 leakage current
72	I2		Channel 2 leakage current
79	COM		Leakage current common port
81	V-	Temperature/ humidity	Connect WH-3 temperature and humidity sensor
82	DATE		
83	CLK		
84	V+		