

AMC16Z-FAK48 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 is suitable for various all-round intelligent monitoring of terminal distribution equipment.

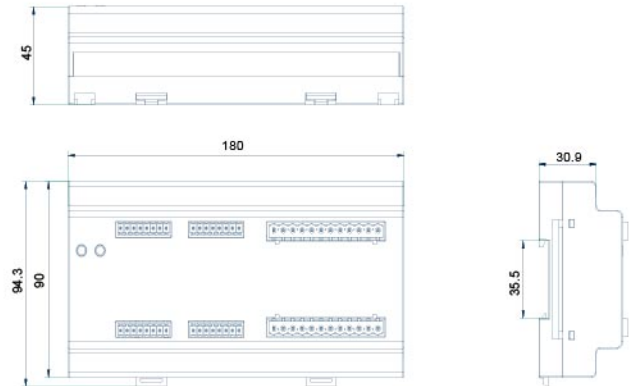
Technical Parameter

Technical Parameter	Value
Distribution System	AC
Measurement of electrical parameters	I,U,P,Q,EP,EQ,S; 2-3rd harmonic
	24 channels on each side (48 in total)
	48DI
	RS485
Current	CT XXA/50mA
	Range 0~120%
	Overload 1.2 times for continuous, and 10 times/second for instantaneous
Frequency	45~65Hz
Accuracy	Class 0.2(U/I) Class 0.5(P/EP) Class 1(Q/EQ)
Auxiliary Supply	DC12V
Insulation resistance	100MQ
Environment	Temperature Operation:-15℃~55℃ Storage:-25℃~70℃
	Humidity Relative humidity≤93%
	Altitude ≤2500m
Communication	RS485(Modbus-RTU)
Installation	DIN 35mm
Switch input	48 DI

Working environment

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

Dimension drawings(Unit: mm)



Wiring

Terminal No.	Definition	Description
V+	Auxiliary power supply	Power supply by AMC16Z-ZA
V-		
A	RS485 communication	Connect to HMI or RS485 hub
B		
A1	A-channel 1 current A phase	The first group of three-phase current input for A-channel outlet
A2	A-channel 2 current B phase	
A3	A-channel 3 current C phase	
GA1	Common port of A-channel current negative pole (1)	The second group of three-phase current input for A-channel outlet
A4	A-channel 4 current A phase	
A5	A-channel 5 current B phase	
A6	A-channel 6 current C phase	The third group of three-phase current input for A-channel outlet
GA2	Common port of A-channel current negative pole (2)	
A7	A-channel 7 current A phase	
A8	A-channel 8 current B phase	The fourth group of three-phase current input for A-channel outlet
A9	A-channel 9 current C phase	
GA3	Common port of A-channel current negative pole (3)	
A10	A-channel 10 current A phase	The fourth group of three-phase current input for A-channel outlet
A11	A-channel 11 current B phase	
A12	A-channel 12 current C phase	
GA3	Common port of A-channel current negative pole (4)	

Terminal No.	Definition	Description
A13	A-channel 1 current A phase	The fifth group of three-phase current input for A-channel outlet
A14	A-channel 2 current B phase	
A15	A-channel 3 current C phase	
GA5	Common port of A-channel current negative pole (5)	
A16	A-channel 16 current A phase	The sixth group of three-phase current input for A-channel outlet
A17	A-channel 17 current B phase	
A18	A-channel 18 current C phase	
GA6	Common port of A-channel current negative pole (6)	
A19	A-channel 19 current A phase	The seventh group of three-phase current input for A-channel outlet
A20	A-channel 20 current B phase	
A21	A-channel 21 current C phase	
GA7	Common port of A-channel current negative pole (7)	
A22	A-channel 22 current A phase	The eighth group of three-phase current input for A-channel outlet
A23	A-channel 23 current B phase	
A24	A-channel 24 current C phase	
GA8	Common port of A-channel current negative pole (8)	
B1	B-channel 1 current A phase	The first group of three-phase current input for B-channel outlet
B2	B-channel 2 current B phase	
B3	B-channel 3 current C phase	
GB1	Common port of B-channel current negative pole (1)	
B4	B-channel 4 current A phase	The second group of three-phase current input for B-channel outlet
B5	B-channel 5 current B phase	
B6	B-channel 6 current C phase	
GB2	Common port of B-channel current negative pole (2)	
B7	B-channel 7 current A phase	The third group of three-phase current input for B-channel outlet
B8	B-channel 8 current B phase	
B9	B-channel 9 current C phase	
GB3	Common port of B-channel current negative pole (3)	
B10	B-channel 10 current A phase	The fourth group of three-phase current input for B-channel outlet
B11	B-channel 11 current B phase	
B12	B-channel 12 current C phase	
GB4	Common port of B-channel current negative pole (4)	
B13	B-channel 13 current A phase	The fifth group of three-phase current input for B-channel outlet
B14	B-channel 14 current B phase	
B15	B-channel 15 current C phase	
GB5	Common port of B-channel current negative pole (5)	
B16	B-channel 16 current A phase	The sixth group of three-phase current input for B-channel outlet
B17	B-channel 17 current B phase	
B18	B-channel 18 current C phase	
GB6	Common port of B-channel current negative pole (6)	

Terminal No.	Definition	Description
B19	B-channel 19 current A phase	The seventh group of three-phase current input for B-channel outlet
B20	B-channel 20 current B phase	
B21	B-channel 21 current C phase	
GB7	Common port of B-channel current negative pole (7)	
B22	B-channel 22 current A phase	The eighth group of three-phase current input for B-channel outlet
B23	B-channel 23 current B phase	
B24	B-channel 24 current C phase	
GB8	Common port of B-channel current negative pole (8)	
KA1	A-channel AC voltage A phase (1)	The first group of A-channel switch input
KA2	A-channel AC voltage B phase (1)	
KA3	A-channel AC voltage C phase (1)	
KA4	A-channel AC voltage A phase (2)	
KA5	A-channel AC voltage B phase (2)	
KA6	A-channel AC voltage C phase (2)	
KA7	A-channel AC voltage A phase (3)	
KA8	A-channel AC voltage B phase (3)	
KA9	A-channel AC voltage C phase (3)	
KA10	A-channel AC voltage A phase (4)	
KA11	A-channel AC voltage B phase (4)	
KA12	A-channel AC voltage C phase (4)	
UNA	A-channel AC voltage null line	
KA13	A-channel AC voltage A phase (5)	The second group of A-channel switch input
KA14	A-channel AC voltage B phase (5)	
KA15	A-channel AC voltage C phase (5)	
KA16	A-channel AC voltage A phase (6)	
KA17	A-channel AC voltage B phase (6)	
KA18	A-channel AC voltage C phase (6)	
KA19	A-channel AC voltage A phase (7)	
KA20	A-channel AC voltage B phase (7)	
KA21	A-channel AC voltage C phase (7)	
KA22	A-channel AC voltage A phase (8)	
KA23	A-channel AC voltage B phase (8)	
KA24	A-channel AC voltage C phase (8)	
KB1	B-channel AC voltage A phase (1)	The first group of B-channel switch input
KB2	B-channel AC voltage B phase (1)	
KB3	B-channel AC voltage C phase (1)	
KB4	B-channel AC voltage A phase (2)	
KB5	B-channel AC voltage B phase (2)	
KB6	B-channel AC voltage C phase (2)	
KB7	B-channel AC voltage A phase (3)	
KB8	B-channel AC voltage B phase (3)	
KB9	B-channel AC voltage C phase (3)	
KB10	B-channel AC voltage A phase (4)	
KB11	B-channel AC voltage B phase (4)	
KB12	B-channel AC voltage C phase (4)	
UNB	B-channel AC voltage null line	
KB13	B-channel AC voltage A phase (5)	The second group of B-channel switch input
KB14	B-channel AC voltage B phase (5)	

Terminal No.	Definition	Description
KB14	B-channel AC voltage B phase (5)	The second group of B-channel switch input
KB15	B-channel AC voltage C phase (5)	
KB16	B-channel AC voltage A phase (6)	
KB17	B-channel AC voltage B phase (6)	
KB18	B-channel AC voltage C phase (6)	
KB19	B-channel AC voltage A phase (7)	
KB20	B-channel AC voltage B phase (7)	
KB21	B-channel AC voltage C phase (7)	
KB22	B-channel AC voltage A phase (8)	
KB23	B-channel AC voltage B phase (8)	
KB24	B-channel AC voltage C phase (8)	

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