ABB DRIVE I/O EXTENSION

Product Data Sheet

AIMA-01

I/O extension module adapter

I/O EXTENSION SLOTS	OPTICAL PROTOCOL	OPTICAL CHANNEL CH 1A	OPTICAL CHANNEL CH 1B
3	**DDCS**	**5 MBd**	**10 MBd**

ABB AIMA-01 is an external adapter for mounting up to three drive I/O extension modules, including RDIO-01, RAIO-01 and RTAC-01. A DDCS fibre-optic link connects the adapter to the drive, and multiple adapters can be arranged in an optical ring for distributed I/O extension.

01 TECHNICAL DATA

I/O extension slots	3
Optical protocol	DDCS
Optical channel CH 1A	5 MBd
Optical channel CH 1B	10 MBd
Simultaneously active optical channels	1
Supply voltage	24 V DC ±10%
Input fuse	TR5 T1 A, anti-surge
Optical cable support	POF; HCS on 10 MBd channel only
Power terminal pitch	5.08 mm
Ingress rating	IP20

ABB AIMA-01 I/O Module Adapter User's Manual, 3AFE64661442 Rev A

02 ADDITIONAL PRODUCT DATA

Operating temperature	0 to +50 °C
Storage temperature	-20 to +70 °C
Operating humidity	5–95%, non-condensing
Maximum installation altitude	4000 m
Operating atmospheric pressure	70–106 kPa

03 PRODUCT FUNCTION

The adapter provides separate 5 MBd and 10 MBd optical component channels, with only one channel active at a time. It requires 24 V DC ±10%, uses a TR5 T1 A anti-surge fuse and has an IP20 zinc-plated steel housing. The operating range is 0 to +50 °C; optical power is set with rotary selectors according to the cable type and attenuation.

04 SYSTEM COMPATIBILITY

Choose either CH 1A with 5 MBd optical components or CH 1B with 10 MBd components; only one channel may operate at a time. Match transmitter and receiver component types, cross TXD to RXD, and set the unused channel selector to Disabled. HCS cable is supported only by the 10 MBd components.

05 REFERENCE

ABB AIMA-01 I/O Module Adapter User’s Manual, 3AFE64661442 Rev A

AMIKON PRODUCT SUPPORT

+86-18020776786 INFO@AMIKON.CN **AMIKONG.COM**