AUXILIARY FEEDBACK CONNECTOR

MOTOR FEEDBACK CONNECTOR

I/O CONNECTOR

3.250

2.750

.750

1.147REF.

FLEX-CABLE
5822 N. Henkel Rd.
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Title: KINETIX 6000 BREAKOUT BOARD

Part # FCBB-K6K3
KINETIX 6000 BREAKOUT BOARD

Drawing No.
A8452-01

FLEX-CABLE

PIN NUMBERS & SIGNAL DESCRIPTIONS
for the FCBB-K6K-3 Break-Out Board. Valid for KINETIX 6000(™) drives.

NOTE: Terminal blocks are labeled according to connector pin numbers.

IOD — **I/O CONNECTOR PIN-OUT**

Pin Number	Terminal Signal Description	Signal
1	Hardware Enabled 24V DC Power Supply	CUST_24V
2	Hardware Enable Input	ENABLE
3	Common	CUST_COM
4	Home Switch 24V DC Power Supply	CUST_24V
5	Home Switch Input	HOME
6	Common	CUST_COM
7	Positive Overtravel 24V DC Power Supply	CUST_24V
8	Positive Overtravel Limit Switch Input	OT+
9	Common	CUST_COM
10	Negative Overtravel 24V DC Power Supply	CUST_24V
11	Negative Overtravel Limit Switch Input	OT-
12	Common	CUST_COM
13	24V Registration Power	REG_24V
14	High Speed Registration 1 Input	REG1
15	Common for Registration	REG_COM
16	24V Registration Power	REG_24V
17	High Speed Registration 2 Input	REG2
18	Common for Registration	REG_COM
19	Reserved	-----
20	Reserved	-----
21	Reserved	-----
22	Reserved	-----
23	Analog Output 0	DAC0
24	Analog Output Common	AC_COM
25	Analog Output 1	DAC1
26	Analog Output Common	DAC_COM

MF — **STEGMANN HIPERFACE PIN-OUT**

Pin Number	Terminal Signal Description	Signal
1	Sine Differential Input+	SINE+
2	Sine Differential Input-	SINE-
3	Cosine Differential Input+	COS+
4	Cosine Differential Input-	COS-
5	Hiperface data channel	DATA+
6	Common	ECOMM
7	Encoder Power (+9V)	EPWR_9VM
8	Reserved	-----
9	Reserved	-----
10	Hiperface data channel	DATA-
11	Motor Thermal Switch (normally closed)[1]	TS
12	Reserved	-----
13	Reserved	-----
14	Encoder Power (+5V)	EPWR_5VM
15	Reserved	-----

[1] Not applicable unless motor has integrated thermal protection.

MF — **TTL or Sine/Cosine w/Index Pulse and Hall Commutation**

Pin Number	Terminal Signal Description	Signal
1	AM+ / Sine Differential Input+	AM+ / SINE+
2	AM- / Sine Differential Input-	AM- / SINE-
3	BM+ / Cosine Differential Input+	BM+ / COS+
4	BM- / Cosine Differential Input-	BM- / COS-
5	Index Pulse+	IM+
6	Common	ECOMM
7	Encoder Power (+9V)	EPWR_9VM
8	Single Ended 5V Hall Effect Commutation	S3
9	Reserved	-----
10	Index Pulse-	IM-
11	Motor Thermal Switch (normally closed)	TS
12	Single Ended 5V Hall Effect Commutation	S1
13	Single Ended 5V Hall Effect Commutation	S2
14	Encoder Power (+5V)	EPWR_5VM
15	Reserved	-----

[1] Not applicable unless motor has integrated thermal protection.

MF — **Resolver Transmitter TR = 0.25**

Pin Number	Terminal Signal Description	Signal
1	Sine Differential Input+	SINE+
2	Sine Differential Input-	SINE-
3	Cosine Differential Input+	COS+
4	Cosine Differential Input-	COS-
5	Resolver Excitation	R1
6	Common	ECOMM
7	Encoder Power (+9V)	EPWR_9VM
8	Reserved	-----
9	Reserved	-----
10	Resolver Excitation	R2
11	Motor Thermal Switch (normally closed)[1]	TS
12	Reserved	-----
13	Reserved	-----
14	Encoder Power (+5V)	EPWR_5VM
15	Reserved	-----

[1] Not applicable unless motor has integrated thermal protection.

AF — **STEGMANN HIPERFACE PIN-OUT**

Pin Number	Terminal Signal Description	Signal
1	Sine Differential Input+	SINE+
2	Sine Differential Input-	SINE-
3	Cosine Differential Input+	COS+
4	Cosine Differential Input-	COS-
5	Hiperface data channel	DATA+
6	Common	ECOMM
7	Encoder Power (+9V)	EPWR_9VM
8	Reserved	-----
9	Reserved	-----
10	Hiperface data channel	DATA-
11	Reserved	-----
12	Reserved	-----
13	Reserved	-----
14	Encoder Power (+5V)	EPWR_5VM
15	Reserved	-----

AF — **TTL or Sine/Cosine w/Index Pulse**

Pin Number	Terminal Signal Description	Signal
1	AM+ / Sine Differential Input+	AM+ / SINE+
2	AM- / Sine Differential Input-	AM- / SINE-
3	BM+ / Cosine Differential Input+	BM+ / COS+
4	BM- / Cosine Differential Input-	BM- / COS-
5	Index Pulse+	I+
6	Common	ECOMM
7	Encoder Power (+9V)	EPWR_9VM
8	Reserved	-----
9	Reserved	-----
10	Index Pulse-	I-
11	Reserved	-----
12	Reserved	-----
13	Reserved	-----
14	Encoder Power (+5V)	EPWR_5VM
15	Reserved	-----

Visit our Web-site for further technical information @

http://www.flexcable.com/efiles/breakoutboards/FCBB-K6K-3.htm

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