DANAHER
MOTION

Group	Drive, Motors		Date	2/17/2006
Series	B8000, AKM		Revised	1/22/2008
Element Group	Commutating Encoder		Revision	2
Element	Pin-Out		Author	J. Coleman
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Wiring Pin-Out For AKM with Commutating Encoder to B8000

Languages	Target Group	Status	Usage	International Restrictions
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About the Content:

This document contains pin-out information for the AKM1x and AKM2x C connectors with commutating encoder to the B8000 series of IDC drives.

Content

Introduction

The following tables show the wire colors and functions for direct wire connection to the IDC B8000 series drives from the AKM1&2 with Commutating Encoder and C cable connectors. The part numbers for the cables are 31-0092-C12, 31-0092-C25, 31-0092-C50.

Motor Power

Motor Phase/Function	Motor Wire	Quick Disconnect Pin	Cable Wire	B8000 Connector Pin	B8000 Function
PE (Physical Earth)	Green/Yellow	Ground Symbol	Green	1	GND
W	Violet	3	Blue	2	T (Motor)
V	Brown	4	Black	3	S (Motor)
U	Blue	1	Red	4	R (Motor)
Brake +	Black	A	Orange	No Connection	Brake +24VDC
Brake -	Black	B	Brown	No Connection	Brake -24VDC
		C		No Connection	
		D		No Connection	

Feedback

Encoder/Halls Function	Motor Wire	Quick Disconnect Pin	Cable Wire	B8000 Connector Pin	B8000 Function
		No Connection		5	N/A
Thermal Sensor +	Orange	8	Orange	6	TEMP
Thermal Sensor -	Orange/White	9	Orange/White	7	Tref
		No Connection		8	(+)5
U	Brown	15	Green	9	R (Halls)
W	White	17	Black/White	10	S (Halls)
V	Grey	16	White	11	T (Halls)
		No Connection		12	COM
Vcc	Red	10	Red	13	(+)5
A	Blue	3	Blue	14	A+
A-	Blue/Black	4	Blue/White	15	A-
B	Green	1	Yellow	16	B+
B-	Green/Black	2	Yellow/White	17	B-
Z	Violet	5	Brown	18	Z+
Z-	Violet/Black	6	Brown/White	19	Z-
GND	Black	7	Black	20	COM
		11		No Connection	
		12		No Connection	
		13		No Connection	
		14		No Connection	