HPV1000-App_Note_06

CDBR INSTALLATION GUIDE

This quick start-up guide details the application of CDBR braking units. This will cover CDBR specifications as well as settings, and sizing.

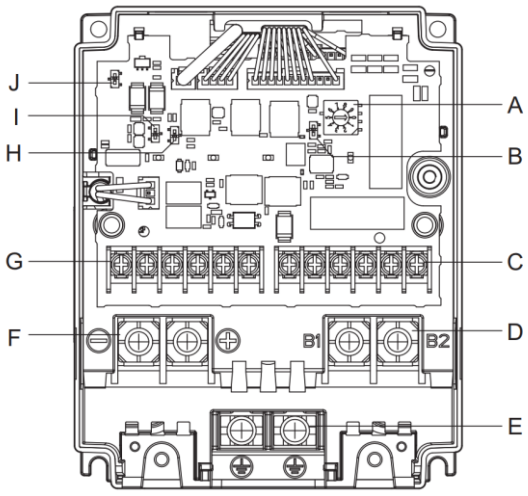
CDBR Selection

HPV1000 Model	CDBR Model	Quantity
HPV1000-4075-BA-N02	4045D	1
HPV1000-4091-BA-N02	4045D	1
HPV1000-4112-CA-N02	4090D	1
HPV1000-4150-CA-N02	4090D	1

CDBR Specifications

Model	Voltage Class	Max Motor Capacity kW	Rated Discharge Amps	Max Discharge Amps Peak 10% Duty
4045D	400	45	18	60
4090D	460	90	30	100

CDBR Drawing



Section	Description
A	Power Supply Voltage Selection (S3) (See table below)
B	Master/Slave Selection Switch (S2)
C	Control Circuit Terminals (TB2)
D	Main Circuit Terminal Board (B1, B2)
E	Grounding Terminal
F	Main Circuit Terminal Board (+,-)
G	Control Circuit Terminals (TB1)
H	Fault Relay Enable/Disable (S5)
I	N.O/N.C Switch (S4)
J	Sink/Source Switch (S1)

Typical Switch Settings	
S1 (J)	Up – (Sink)
S2 (B)	Down – (Master)
S3 Rotary Switch (A)	4 – 415VDC
S4 (I)	Up – (A - normally open)
S5 (H)	Down – (2 - Enable)

Power Supply Voltage Selection

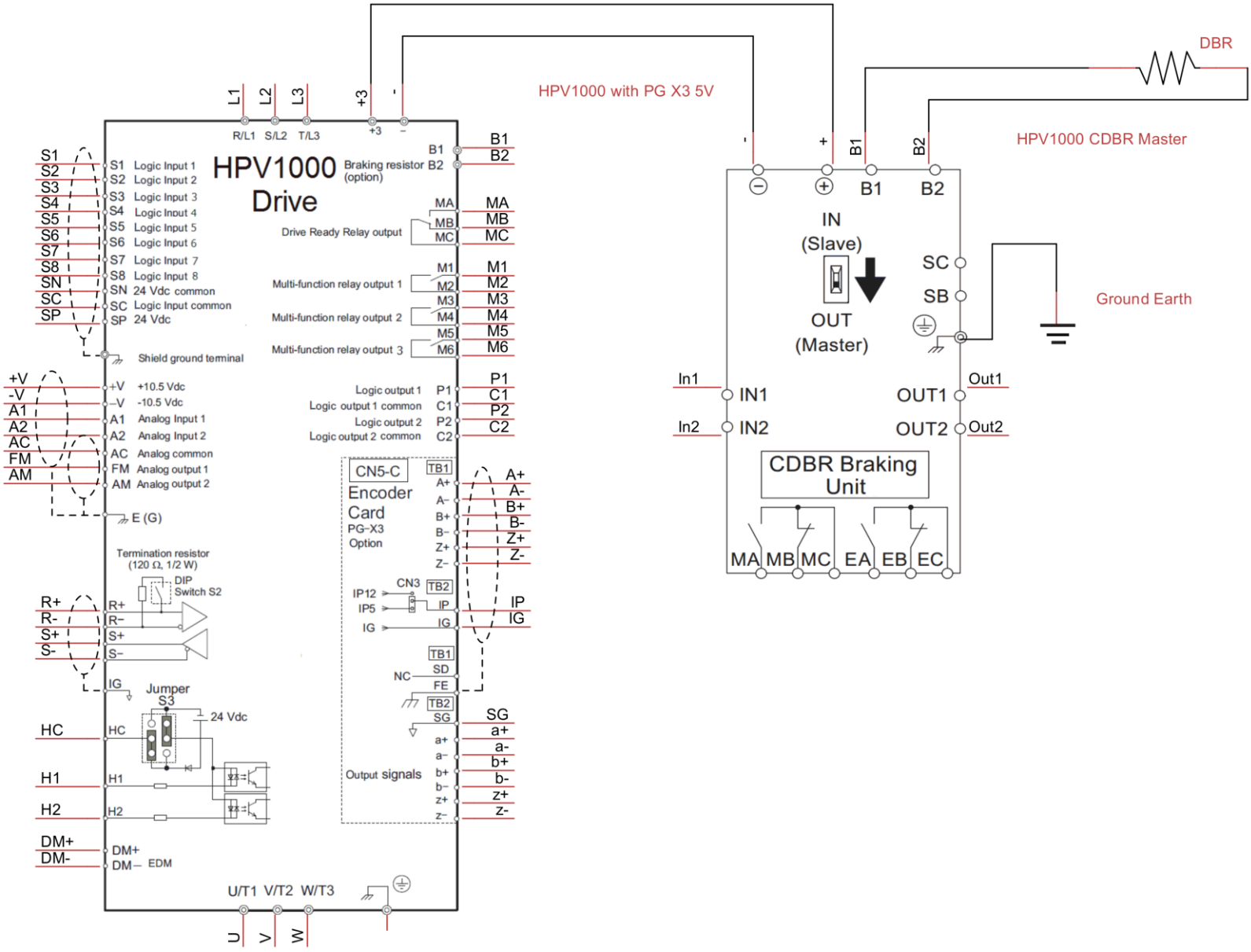
Power Supply Voltage	S3 Rotary Switch Setting (A)	Braking Activation Voltage
380	0	630
390	1	644
400	2	659
405	3	673
415	4	688
425	5	702
430	6	717
440	7	731
450	8	746
460	9	760

CDBR Parameters

When using a CDBR, the parameter 'DB Tr Protection' should be set to Disabled:

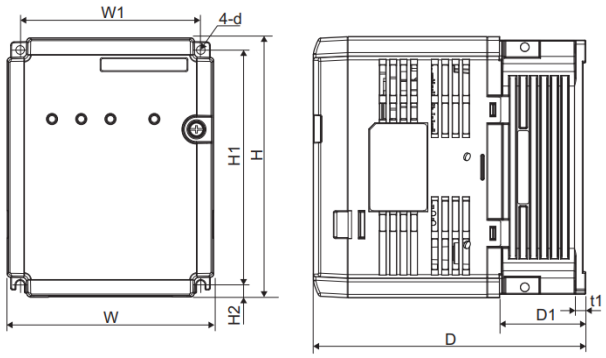
Parameter	Setting
DB Tr Protection (C1)	Disabled

CDBR Connection



CDBR Weights and Dimensions

CDBR



4045D

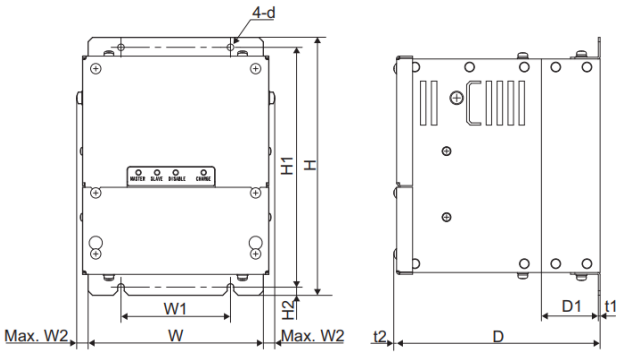


Figure 1

4090D

Model CDBR	Dimensions											Weight
	W	H	D	W1	W2	H1	H2	D1	t1	t2	d	KG
4045D (IP20)	120	150	157	105	N/A	136	7	48	6	N/A	M4	2
4090D (IP00)	160	235	185.9	100	10.4	218.5	7.5	53.6	1.6	2.5	M5	5.5