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HPV1000-App_Note_14

HPV1000 Weights and Dimensions

Weights and dimensions for the HPV1000 drives and peripherals

HPV1000 Drives (400V Class)

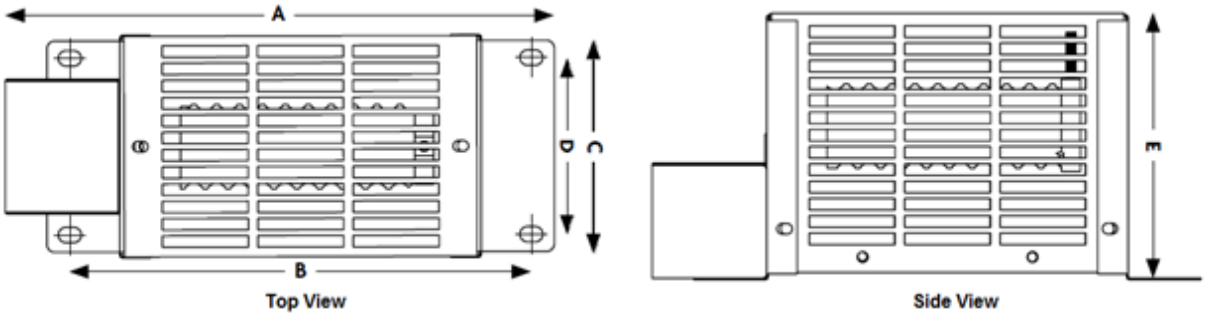
Drive Model Number	Rated kW	Continuous Output Current Rating	Peak (max accelerating current for 5s	Width (mm)	Height (mm)	Depth (mm)	Weight (Kg)
HPV1000-4009-BA-N02	4	9A	16	140	260	164	3.5
HPV1000-4015-BA-N02	5.5	15A	26	140	260	167	3.9
HPV1000-4018-BA-N02	7.5	18A	34	140	260	167	3.9
HPV1000-4024-BA-N02	11	24A	48	180	300	167	5.4
HPV1000-4031-BA-N02	15	31A	62	180	300	187	5.7
HPV1000-4039-BA-N02	18	39A	78	220	350	197	8.3
HPV1000-4045-BA-N02	22	45A	90	250	400	258	21
HPV1000-4060-BA-N02	30	60A	120	275	450	258	25
HPV1000-4075-BA-N02	37	75A	150	325	510	258	36
HPV1000-4091-BA-N02	45	91A	182	325	510	258	36
HPV1000-4112-CA-N02	55	112A (*)	224	325	550	283	41
HPV1000-4150-CA-N02	75	150A (*)	290	325	550	283	42
HPV1000-4180-CA-N02	90	180A (*)	360	450	705	330	79
HPV1000-4216-CA-N02	110	216A (*)	432	500	800	350	96

Note: * Ratings at 5kHz, all others at 8kHz

HPV1000 Resistors

	Drive Model Number	Resistor P/N (Worm Gear)	Resistor P/N (Planetary/Gearless)
	HPV1000-4009-BA-N02	DBR-600-32	DBR-1500-32
	HPV1000-4015-BA-N02		
	HPV1000-4018-BA-N02	DBR-1000-32	DBR-2000-32
	HPV1000-4024-BA-N02		DBR-3000-32
	HPV1000-4031-BA-N02	DBR-2000-20	DBR-4500-20
	HPV1000-4039-BA-N02		
	HPV1000-4045-BA-N02	DBR-3000-20	DBR-6000-20
*1	HPV1000-4060-BA-N02	DBR-4500-20	
*1	HPV1000-4075-BA-N02	*2	*2
*1	HPV1000-4091-BA-N02		
*1	HPV1000-4112-CA-N02		
*1	HPV1000-4150-CA-N02		
*1	HPV1000-4180-CA-N02		
*1	HPV1000-4216-CA-N02		

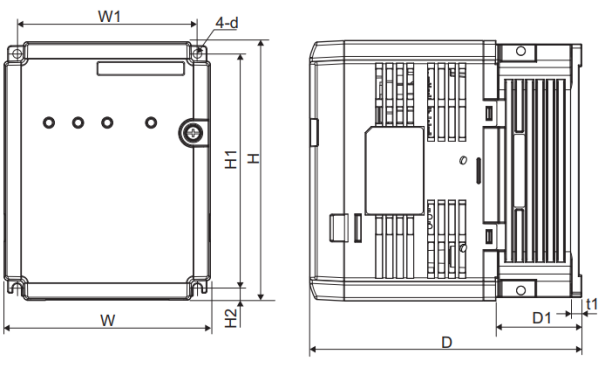
Notes-
*1 - May also require an external CDBR brake transistor – always refer to sizing tool for confirmation
*2 – Refer to HPV1000 sizing tool for confirmation of values based on application data



Resistor Model	A	B	C	D	E	KG
DBR-600-xx	288	236	121	92	141	1.4
DBR-1000-xx	367	315	121	92	151	1.8
DBR-1500-xx	467	415	121	92	141	1.8
DBR-2000-xx	367	315	213	185	141	3
DBR-3000-xx	467	415	213	185	141	3.8
DBR-4500-xx	467	415	307	278	141	5.4
DBR-6000-xx	500	410	388	360	195	6.6
DBR-8000-xx	500	410	388	360	390	11.5
DBR-12000-xx	800	697	335	280	303.5	28
DBR-18000-xx	800	697	335	280	428.5	45
DBR-25000-xx	800	697	539	480	453	60

Note: '-xx' indicates ohmic value

CDBR



4045D

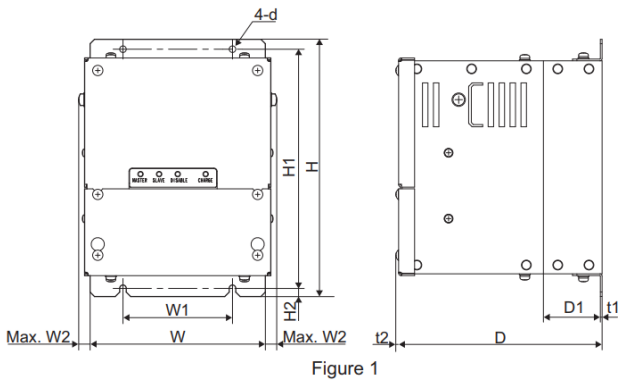


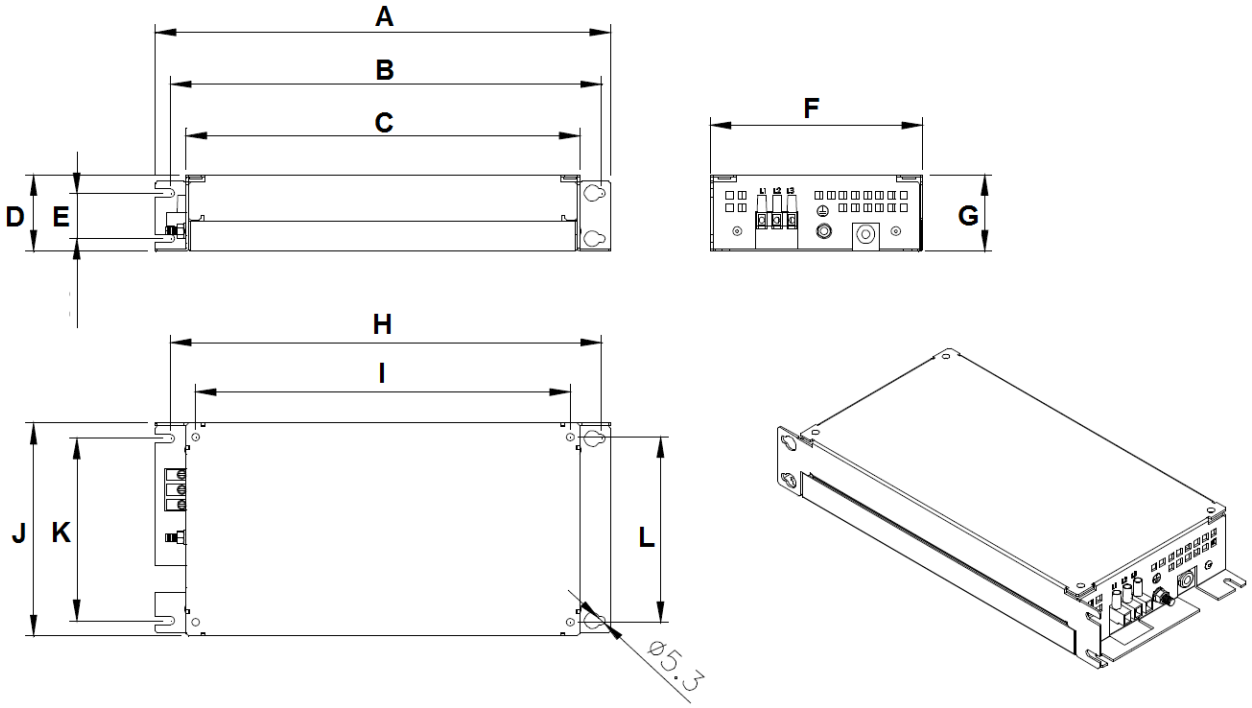
Figure 1

4090D/4220D

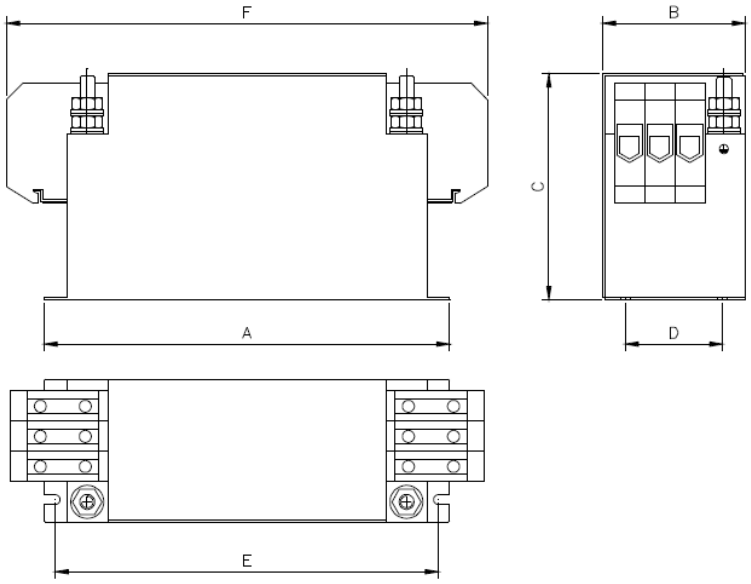
Model CDBR	Dimensions											Weight
	W	H	D	W1	W2	H1	H2	D1	t1	t2	d	KG
4045D (IP20)	120	150	157	105	N/A	136	7	48	6	N/A	M4	2
4090D (IP00)	160	235	185.9	100	10.4	218.5	7.5	53.6	1.6	2.5	M5	5.5
4220D (IP00)	175	294	200	110	7.9	279	7.5	53.5	1.6	2.5	M5	7.5kg

HPV1000 RFI Filters

Drive Model Number	RFI Filter Part Number	Description
HPV1000-4009-BA-N02	FB-40014A	EMC Line Filter for 4009 - Footprint or Separately mounted
HPV1000-4015-BA-N02	FB-40025A	EMC Line Filter for 4015 and 4018 - Footprint or Separately mounted
HPV1000-4018-BA-N02		
HPV1000-4024-BA-N02	FB-40044A	EMC Line Filter for 4024 and 4031 - Footprint or Separately mounted
HPV1000-4031-BA-N02		
HPV1000-4039-BA-N02	FB-40060A	EMC Line Filter for 4039 and 4045 - Separately mounted
HPV1000-4045-BA-N02		
HPV1000-4060-BA-N02	FB-40072A	EMC Line Filter for 4060 - Separately mounted
HPV1000-4075-BA-N02	FB-40105A	EMC Line Filter for 4075 and 4091 - Separately mounted
HPV1000-4091-BA-N02		
HPV1000-4112-CA-N02	FB-40170A	EMC Line Filter for 4112 and 4150 - Separately mounted
HPV1000-4150-CA-N02		
HPV1000-4180-CA-N02	FB-40250A	EMC Line Filter for 4180 and 4216 - Separately mounted
HPV1000-4216-CA-N02		



Filter Model	A	B	C	D	E	F	G	H	I	J	K	L	KG
FB-40014A	301	285	260	50	30	140	50	285	248	140	120	122	2.4
FB-40025A	301	285	260	55	35	140	55	285	248	140	120	122	3.0
FB-40044A	341	325	300	60	35	180	60	325	284	180	160	160	4.3



Filter Model	A	B	C	D	E	F	KG
FB-40060A	270	85	135	60	255	310	4.5
FB-40072A	270	85	135	60	255	310	4.7
FB-40105A	270	95	150	65	255	325	5.3
FB-40170A	380	130	181	102	365	440	9.4
FB-40250A	450	155	220	125	435	525	12.4

RegenAC Weights and Dimensions

3.5-28kW – IP20/NEMA 1 Enclosure

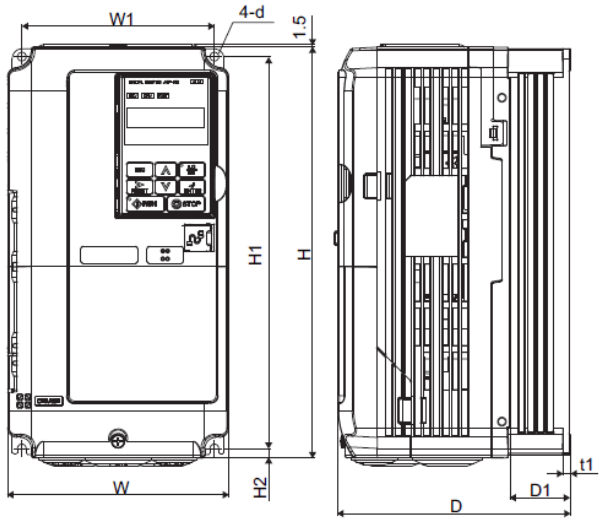


Figure 1

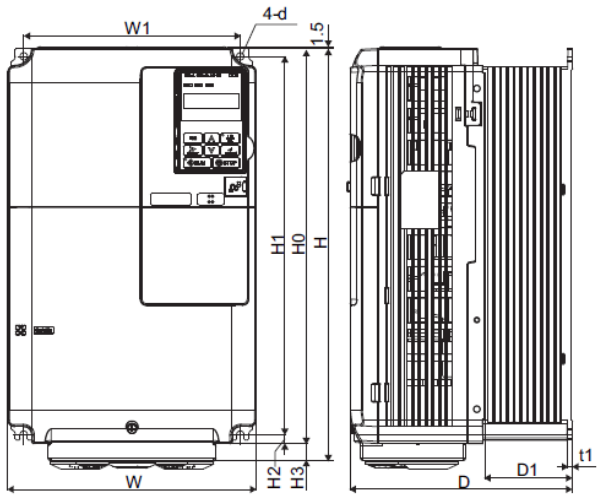


Figure 2

Model	Figure	Dimensions mm											Weight kg
		W	H	D	W1	H0	H1	H2	H3	D1	t1	d	
4A03P5	1	140	260	167	122	–	248	6	–	55	5	M5	4
4A0005	1	140	260	167	122	–	248	6	–	55	5	M5	4
4A0007	1	140	260	167	122	–	248	6	–	55	5	M5	4
4A0010	1	180	300	187	160	–	284	8	–	75	5	M5	5
4A0014	1	180	300	187	160	–	284	8	–	75	5	M5	5
4A0017	2	220	365	197	192	350	335	8	15	78	5	M6	8
4A0020	2	220	365	197	192	350	335	8	15	78	5	M6	8
4A0028	2	220	365	197	192	350	335	8	15	78	5	M6	8

35-53kW – IP00/Open Type Enclosure

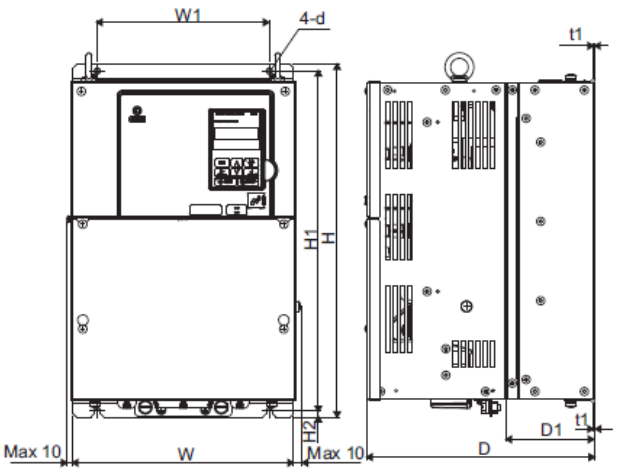


Figure 1

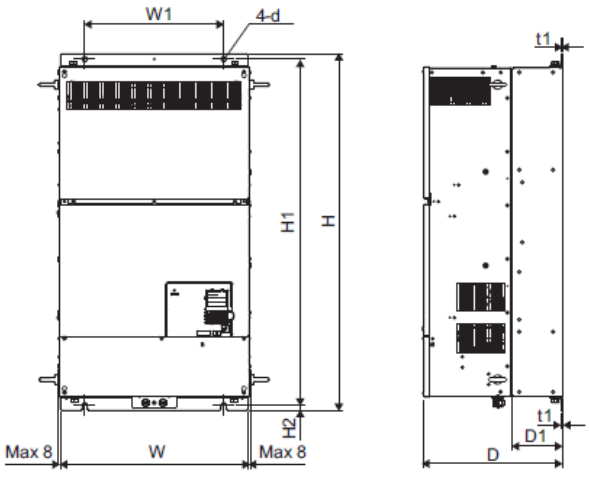
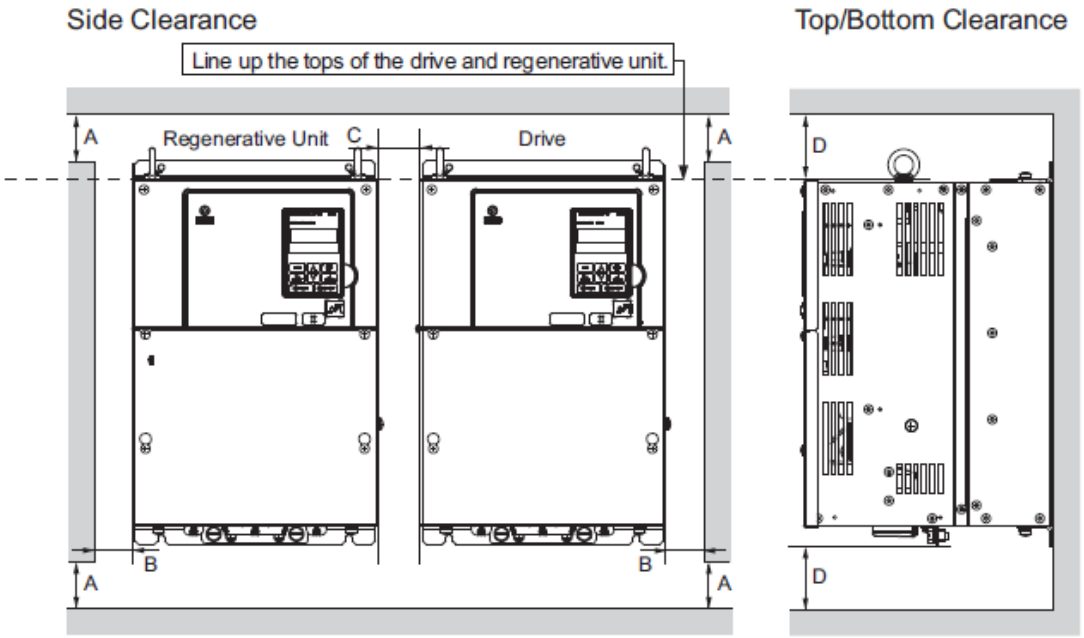


Figure 2

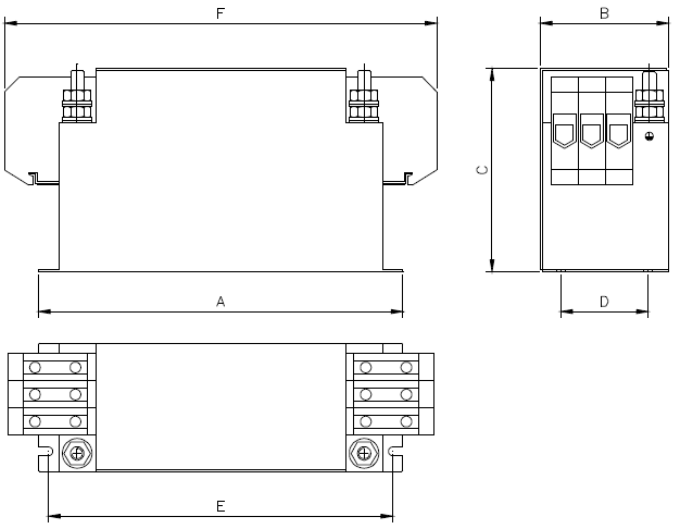
4A0053	1	325	550	283	260	535	7.5	110	2.3	M6	33

Installation Clearances



A – 50 mm minimum
B – 30 mm minimum
C – 60 mm minimum
D – 120 mm minimum

EMC Filter for Regen AC



Filter Model	A	B	C	D	E	F	KG
HLD 110-500/12	220	45	75	20	210	190	1.0
HLD 110-500/16	250	45	75	20	240	220	1.2
HLD 110-500/30	270	55	95	30	255	240	1.8
HLD 110-500/42	310	55	95	30	295	280	2.1
FB-40060A-E	270	85	135	60	255	310	4.5
FB-40072A-E	270	85	135	60	255	310	4.7
FB-40105A-E	270	95	150	65	255	325	5.3
FB-40170A-E	380	130	181	102	365	440	9.4

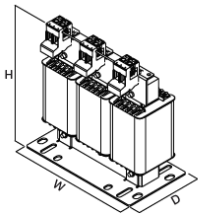


Figure 5 *

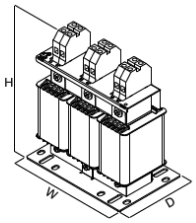


Figure 6 *

Current Reactor

Part Number Kit	Current Suppr. Reactor (1%)	Figure	Dimensions			Weight	IP20 Cover (Optional)	Dimensions			Weight
			W	H	D	KG		W	H	D	KG
R1KIT40003AA□AA	B 1509105	5	78	102	63	0.85	IP20-Box31	170	130	170	0.9
R1KIT40005AA□AA	B 1509105										
R1KIT40007AA□AA	B 1509106		96	118	60	1.31					
R1KIT40010AA□AA	B 1509107					1.32					
R1KIT40014AA□AA	B 1509108		120	150	90	1.9					
R1KIT40017AA□AA	B 1509108										
R1KIT40020AA□AA	B 1509109					1.93					
R1KIT40028AA□AA	B 1509110	6	155	195	102	3.8	IP20-Box32	190	155	220	1.25
R1KIT40035AA□AA	B 1504118			175	95	4					
R1KIT40043AA□AA	B 1509111			195	102	4.43					
R1KIT40053AA□AA	B 1509112				110	5.95	IP20-Box33	205	170	280	1.5

Power Coordinating Reactor

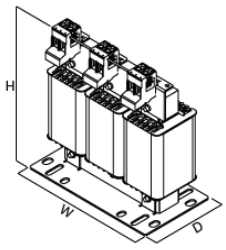


Figure 1 *

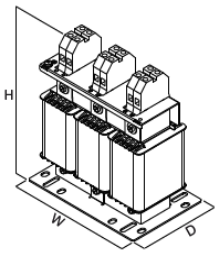


Figure 2 *

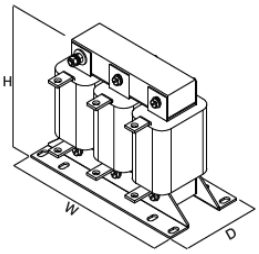


Figure 3 *

AC Input Reactor 8% IP00 Model	Figure	Dimensions			Weight	IP20 Cover (Optional)	Dimensions			Weight
		W	H	D	KG		W	H	D	KG
B 1103136	1	155	110	170	6.0	IP20-BOX32	190	155	220	1.25
B 1103138	2	185	102	196	7.1	IP20-BOX35	225	145	250	1.45
B 1103139		210	125	220	9.6	IP20-BOX36	240	165	275	1.75
B 1103140			135		10.7	IP20-BOX37	240	175	275	1.8
B 1103141	3	230	166	205	12.5	IP20-BOX39	240	210	330	2.2
B 1103142		263			25.0					
B 0910013		330	180	270	36.4	IP20-BOX42	290	220	395	2.9
B 1411053		412	220	320	61.5	on request				