



D1000 REGENERATIVE CONVERTER UNIT

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A Leader in Inverter Drives Technology
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Experience and Innovation

Since 1915 YASKAWA has manufactured and supplied products for machine building and industrial automation. Our standard products as well as tailor-made solutions are well known and have a high reputation for outstanding quality and reliability.

YASKAWA is the leading global manufacturer of inverter drives, servo drives, machine controllers, medium voltage inverters, and industrial robots.

We have always been a pioneer in motion control and drive technology, launching product innovations, which optimise the productivity and efficiency of both machines and systems.

Today we produce more than 1.8 million inverters per year. Considering this, YASKAWA is probably the biggest inverter manufacturer in the world.



YASKAWA Motoman Robots

Furthermore, with a yearly production of more than 800,000 servo motors and 20,000 robots we offer a wide range of products for drive automation processes in many different industries. YASKAWA technology is used in all fields of machine building and industrial automation.



YASKAWA Eschborn, Germany

Wherever You Are – Our Local Support is Near.



Employing more than 14,600 people worldwide

More than 1,350 employees in worldwide service network

More than 1,250 employees in Europe

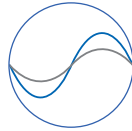
The Power Regenerative Converter Unit

The new D1000 regenerative converter unit complements the YASKAWA product range with a low harmonics Active Frontend Solution. Suitable for both regenerative individual drives and systems of inverter drives, servo axis or robots, the D1000 feeds excess braking energy back into power grid instead of dissipating it as heat.



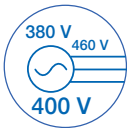
ENERGY EFFICIENT FOUR-QUADRANT

D1000 saves energy by making excessive braking energy available to other consumers in the same grid instead of wasting it as heat. By providing full braking power with 100% duty cycle it allows for shorter machine cycles and can increase production efficiency.



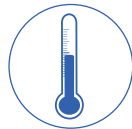
CLEAN POWER

The sinusoidal input current with a total harmonic distortion of less than 5% and a displacement power factor of ~1 minimize losses in grid components like generators and transformers. The higher power quality additionally reduces the potential disturbance of other components.



LOCATION INDEPENDENT MACHINE PERFORMANCE

A controlled, boostable DC voltage guarantees the same level of DC voltage independent of the power supply voltage. Connected drives are always supplied with the same DC voltage, making machines invulnerable against locally different power supply conditions and assuring the same machine performance, no matter where it is used.



COOL OPERATION

D1000 does away with braking choppers and resistors, thus saving valuable space and reducing the risk of fire. By not dissipating energy as heat the demand for ventilation is greatly reduced and maintenance, e.g. for resistor cleaning becomes needless.



READY FOR GLOBAL USE

D1000 complies with major global standards such as UL, CE, RoHS and others.



REDUCE COSTS

The D1000 reduces the cost for energy and maintenance and quickly pays for itself.



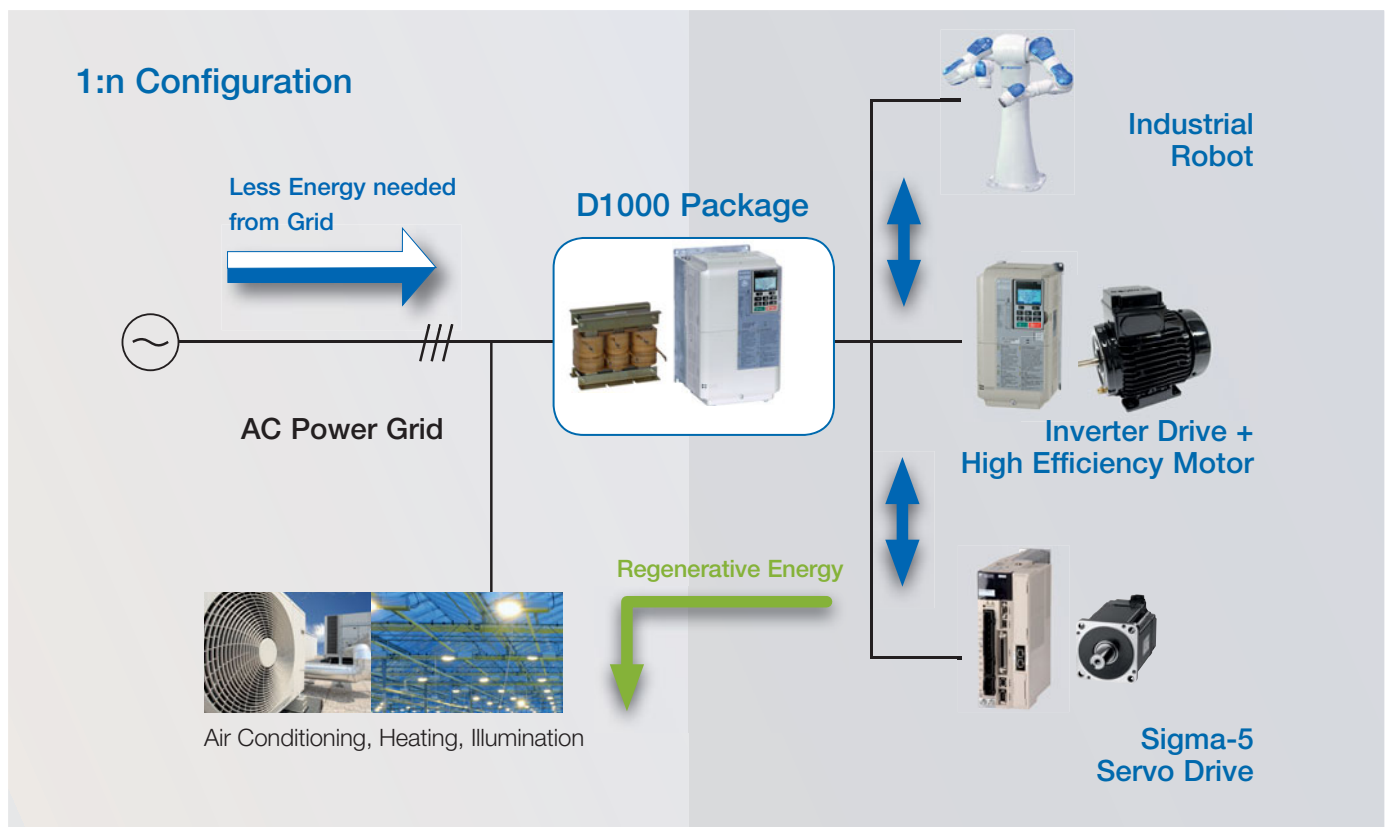
EASY TO HANDLE PACKAGE

D1000 comes in an easy to handle package. Only one material number for all components makes procurement simple and assures completeness and parts compatibility.



Save Energy with Power Regeneration

D1000 is open for various configurations. Usable in one-on-one or multiple unit connection the D1000 provides the flexibility needed to satisfy a broad range of energy efficient and low harmonics applications.



One-on-One System

Typical one-on-one applications like escalators, elevators, pumps, or presses have one inverter drive connected to a D1000. Using the D1000 they take great benefit from:

- ▶ Energy cost reduction of complete installation
- ▶ Less space and heat by removed braking resistors
- ▶ Low input current harmonics

Multiple-Unit Connection

Multiple unit systems like winders, transport systems, packaging systems, or hoists with inverter drives, servo systems or robots have an interconnected DC bus that is supplied by one D1000. Energy is shared already in the DC bus, leading to reduced take up from the power grid. In addition to benefit of one-on-one systems such applications take the advantage from:

- ▶ DC bus energy sharing
- ▶ Reduced space compared to multiple drives with built in active frontend
- ▶ Single point of supply

For a wide Range of Applications

Using the D1000 Regenerative Converter Unit saves energy and thereby money within a broad range of applications. This includes applications with large-inertia loads, 4-quadrant loads, long-term energy feedback and quick braking.



Motor Test Benches



Robots



Cranes, Hoists



Winder



Elevators



Escalators

- ▶ Dewatering machines
- ▶ Semiconductor industry
- ▶ Panel industry
- ▶ Centrifugal separators

- ▶ Winders
- ▶ Presses
- ▶ Eccentrics

Single Unit Configuration (1:1)

For configurations with only one drive connected to a D1000 the correct D1000 kit can be selected from the tables below.

200 V Class

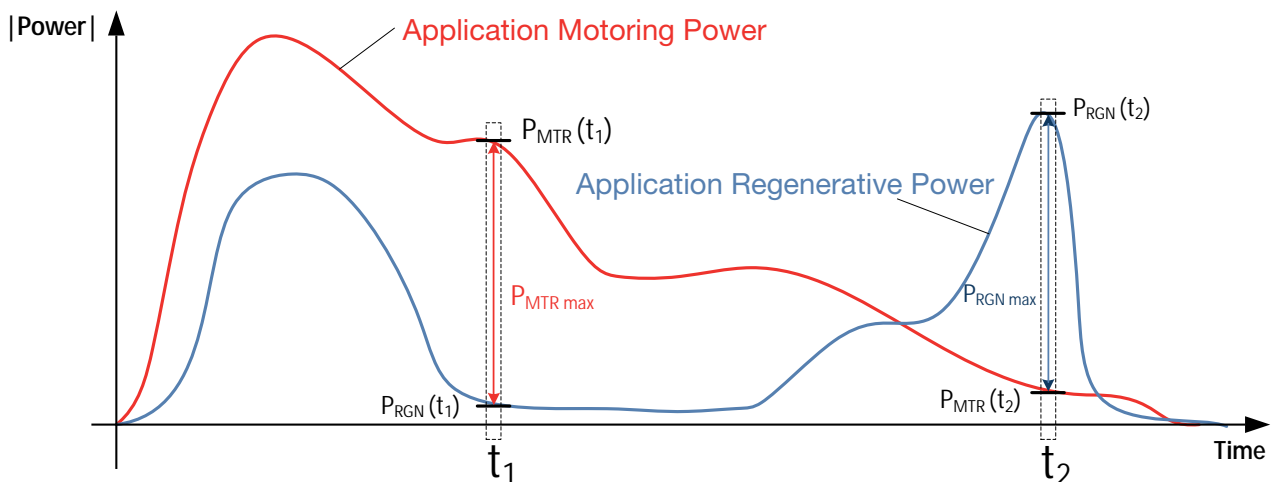
Motor Capacity (kW) / Drive Capacity (kW)	D1000 Kit D1KIT2□□□□AAAAA
≤4.0	0005
5.5 / 7.5	0010
11 / 15	0020
18.5 / 22	0030
30 / 37	0050
45 / 55	0065
75	0090
90 / 110	0130

400 V Class

Motor Capacity (kW) / Drive Capacity (kW)	D1000 Kit D1KIT4□□□□AAAAA
≤4.0	0005
5.5 / 7.5	0010
11 / 15	0020
18.5 / 22	0030
30	0040
37 / 45	0060
55 / 75	0100
90 / 110	0130
132 / 160	0185
185 / 220	0270
315	0370
450 / 560	0630

Multiple Unit Configuration (1:n)

Selecting the optimal D1000 kit when multiple units are connected to one D1000 requires an analysis of the application. Find the moments of maximum motoring and regenerative power as shown in the example below, compare them and select the right D1000 kit.



Calculating the Capacity for multiple Units

Definitions

P = Power [kW]

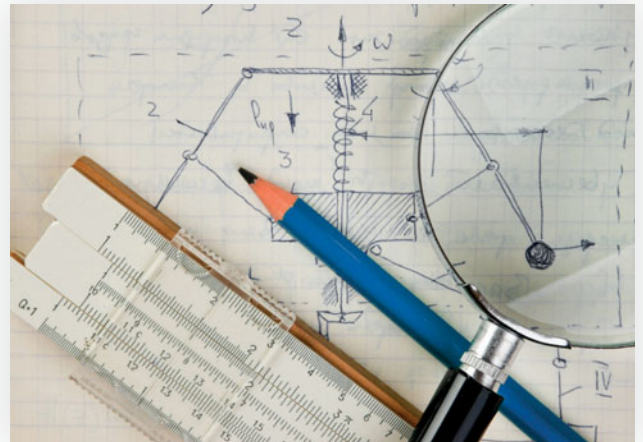
η = Efficiency

P_{MTR} = Motoring Power

P_{RGN} = Regenerative Power

$$P_{MTR}(t) = \sum_{i=1}^N \frac{P_{motor\ i}(t)}{\eta_{motor\ i} \cdot \eta_{drive\ i}}$$

$$P_{RGN}(t) = \sum_{i=1}^N P_{motor\ i}(t) \cdot \eta_{motor\ i} \cdot \eta_{drive\ i}$$



1. Determine the moment (t_1) when the application draws the maximum motoring power from the grid, and calculate the power by subtracting the total motoring and regenerative values.

$$P_{MTRmax} = P_{MTR}(t_1) - P_{RGN}(t_1)$$

2. Determine the moment (t_2) when the application returns the maximum regenerative power to the grid, and calculate the power by subtracting the total regenerative and motoring values.

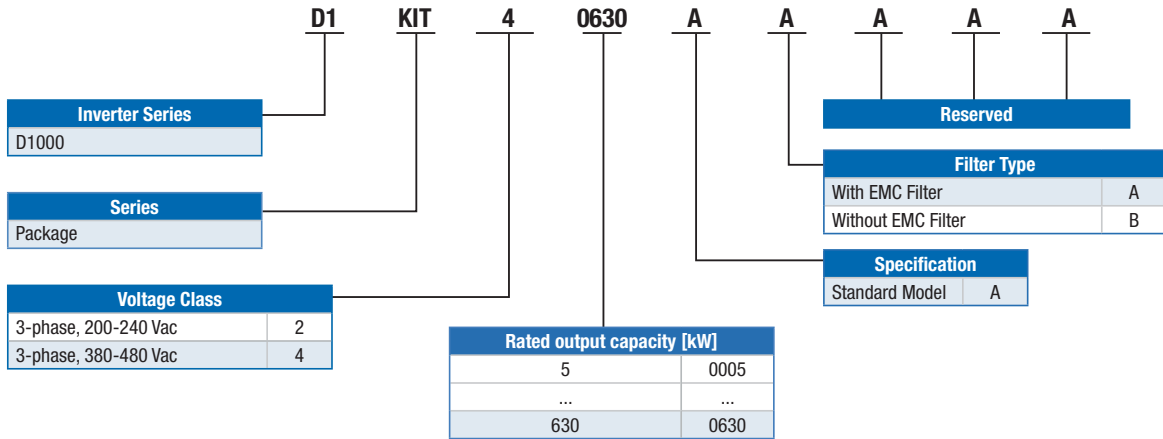
$$P_{RGNmax} = P_{RGN}(t_2) - P_{MTR}(t_2)$$

3. Select a D1000 with a power rating greater than P_{MTRmax} or P_{RGNmax} , whichever is higher.

Notes

- ▶ The minimum D1000 power rating is 1/3 of the total nominal power rating of all devices connected to the DC bus
- ▶ If the peak power state has a duration of less than 60 seconds, the D1000 overload capability can be taken into account. This requires a closer analysis of the application. For technical assistance please contact YASKAWA Support.
- ▶ If efficiencies are unknown, use a motor efficiency of 0.9 (0.85 for motors <7.5kW) and a drive efficiency of 0.95.
- ▶ When calculating the motoring or regenerative power, the actual shaft power should be used. This is because some devices like Servopacks can provide up to 300% of nominal power for a short time, which can have significant influence on D1000 selection.
- ▶ When connecting devices to the DC bus that do not have their own precharge circuit there is a limit to the amount of capacitance that can be connected to the D1000. For more information please contact YASKAWA Support.
- ▶ If the interphase imbalance ratio of the power source exceeds 2%, select a D1000 unit one size larger than required by the above calculation.

Model Number Key for the D1000 Package



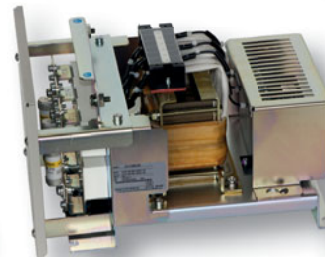
D1000 Package Example



D1000
Regenerative Converter Unit



Input Reactor 1



Harmonic Filter



EMC Filter

D1000 Packages

D1000 is available in pre-configured packages that include all peripherals required making the selection and procurement simple and easy.

Package Content

- ▶ D1000 Regenerative Converter Unit
- ▶ EMC Filter (optional)
- ▶ Input Reactor(s)
- ▶ Harmonic Filter (As discrete parts for 270kW capacity and above. Fuses for these models must be purchased separately.)

200 V Class

Order Number	Capacity	Part Number						
D1KIT2□□□□AAAAA	[kW]	D1000 Unit	Input Reactor 1	Harmonic Filter	Input Reactor 2	Capacitor for Harmonic Filter	Reactor for Harmonic Filter	EMC Filter
0005	5	CIMR-DC2A0005BAA	100-106-071	EJJ710800.KM	-	-	-	-*
0010	10	CIMR-DC2A0010BAA	100-106-072	EJJ710810.KM	-	-	-	-*
0020	20	CIMR-DC2A0020BAA	100-106-073	EJJ710820.KM	-	-	-	-*
0030	30	CIMR-DC2A0030AAA	100-106-074	EJJ710830.KM	-	-	-	-*
0050	50	CIMR-DC2A0050AAA	100-106-075	EJJ710840.KM	-	-	-	-*
0065	65	CIMR-DC2A0065AAA	100-106-076	EJJ710850.KM	-	-	-	-*
0090	90	CIMR-DC2A0090AAA	100-106-077	EJJ710860.KM	-	-	-	-*
0130	130	CIMR-DC2A0130AAA	100-106-078	EJJ710871.KM	-	-	-	-*

* under development

400 V Class

Order Number	Capacity	Part Number						
D1KIT4□□□□AAAAA	[kW]	D1000 Unit	Input Reactor 1	Harmonic Filter	Input Reactor 2	Capacitor for Harmonic Filter	Reactor for Harmonic Filter	EMC Filter
0005	5	CIMR-DC4A0005BAA	100-106-079	EJJ710880.KM	-	-	-	B84143A0020R106
0010	10	CIMR-DC4A0010BAA	100-106-080	EJJ710890.KM	-	-	-	B84143A0020R106
0020	20	CIMR-DC4A0020BAA	100-106-081	EJJ710900.KM	-	-	-	B84143A0035R106
0030	30	CIMR-DC4A0030AAA	100-106-082	EJJ710910.KM	-	-	-	B84143A0065R106
0040	40	CIMR-DC4A0040AAA	100-106-083	EJJ710920.KM	-	-	-	B84143A0065R106
0060	60	CIMR-DC4A0060AAA	100-106-084	EJJ710930.KM	-	-	-	B84143B0180S080
0100	100	CIMR-DC4A0100AAA	100-106-085	EJJ710940.KM	-	-	-	B84143B0180S080
0130	130	CIMR-DC4A0130AAA	100-106-086	EJJ710951.KM	-	-	-	B84143B0400S080
0185	185	CIMR-DC4A0185AAA	100-106-087	EJJ710961.KM	-	-	-	B84143B0400S080
0270	270	CIMR-DC4A0270AAA	100-106-088	-	100-106-090	100-106-093	100-106-096	B84143B1000S080
0370	370	CIMR-DC4A0370AAA	100-106-089	-	100-106-091	100-106-094	100-106-097	B84143B1000S080
0630	630	CIMR-DC4A0630AAA	100-106-089	-	100-106-092	100-106-095	100-106-098	B84143B1600S080



Specifications

Operating Environment

- ▶ **Ambient Temperature** -10 to +50 °C (open chassis)
- ▶ **Humidity** 95% RH or less (non condensating)
- ▶ **Storage Temperature** -20 to +60 °C (short-term temperature during transportation)
- ▶ **Altitude** Up to 1000 meters (output derating required above 1000 m, max. 3000 m)
- ▶ **Shock** 10 to 20 Hz: 9.8 m/s² and 5.9 m/s² for model 0630; 200 V Class 20 to 55 Hz: 5.9 m/s², from 0065 2.0 m/s², 400 V Class 5.9 m/s² from model 0130 2.0 m/s²
- ▶ **Protection Design** IP00/IP20 Open Type enclosure, Indoor use
- ▶ **Standards** UL508C, IEC 61800-5-1, IEC 61800-3, RoHS

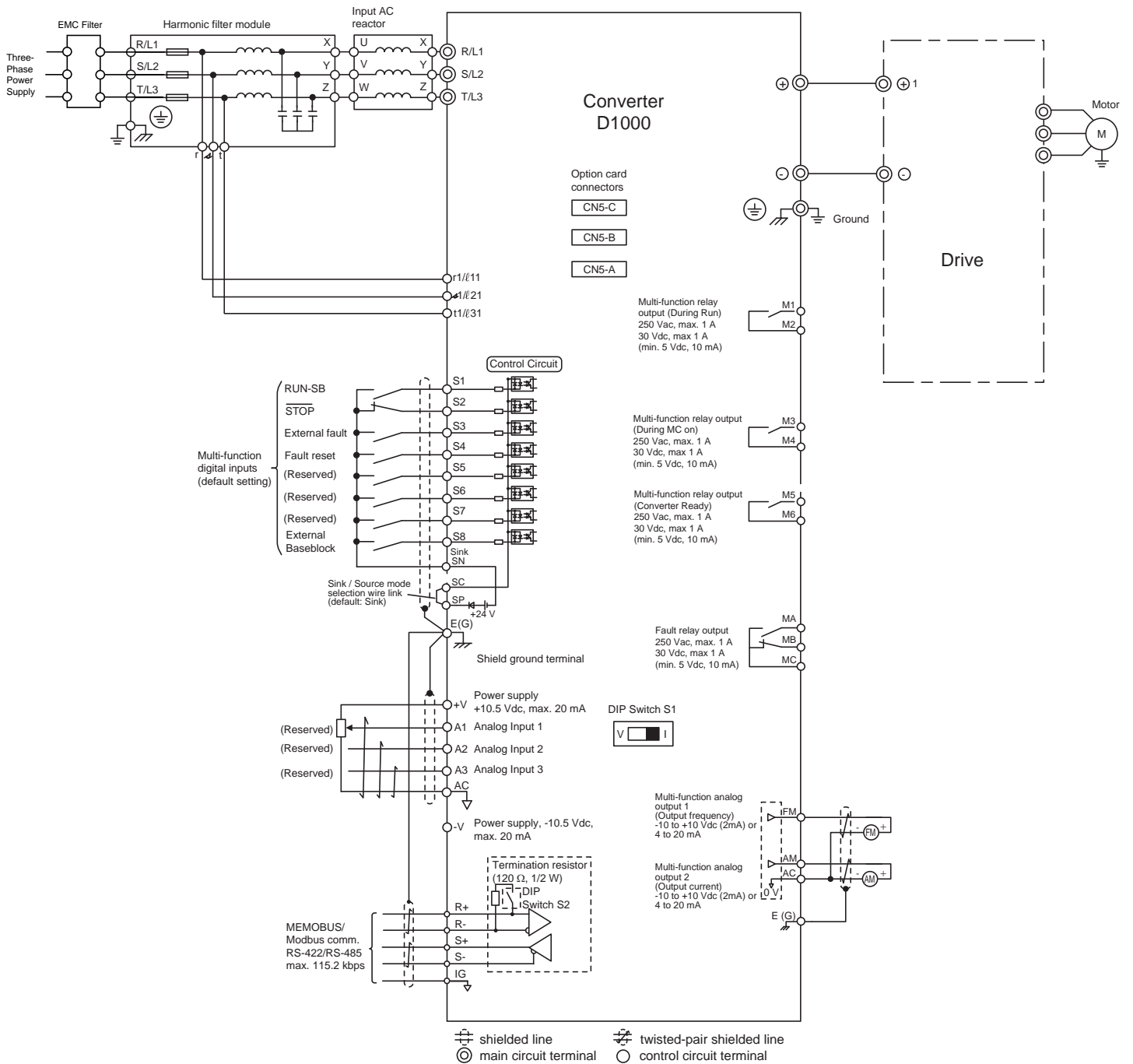
Power Ratings

CIMR-DC□A□□□□	200 V Class								400 V Class											
	0005	0010	0020	0030	0050	0065	0090	0130	0005	0010	0020	0030	0040	0060	0100	0130	0185	0270	0370	0630
Maximum Applicable Motor Capacity (kW)	3.7	7.5	15	22	37	55	75	110	3.7	7.5	15	22	30	45	75	110	160	220	315	560
Rated Output Capacity (kW)	5	10	20	30	50	65	90	130	5	10	20	30	40	60	100	130	185	270	370	630
Rated Output Current DC (A)	15	30	61	91	152	197	273	394	8	15	30	45	61	91	152	197	280	409	561	955
Rated Output Current AC(A)	12	29	57	83	140	200	270	400	8	16	30	43	58	86	145	210	300	410	560	1040
Rated Output Voltage (Vdc)	330								660											
Overload Capability	Operation stops after 60 s at 150% of rated output current																			
Rated Voltage	200 to 240 VAC -15 to +10%								380 to 480 VAC -15 to +10%											
Rated Frequency	50/60 Hz ± 2%																			
Input Power Factor	Input power factor of 0.99 min (for rated operation)																			
Output Voltage Accuracy	±5%																			
Carrier Frequency	6				4				6				4				2			
Power Supply Frequency Fault	Operation stops for a deviation of ±6 Hz or more from the rated input frequency																			

Options

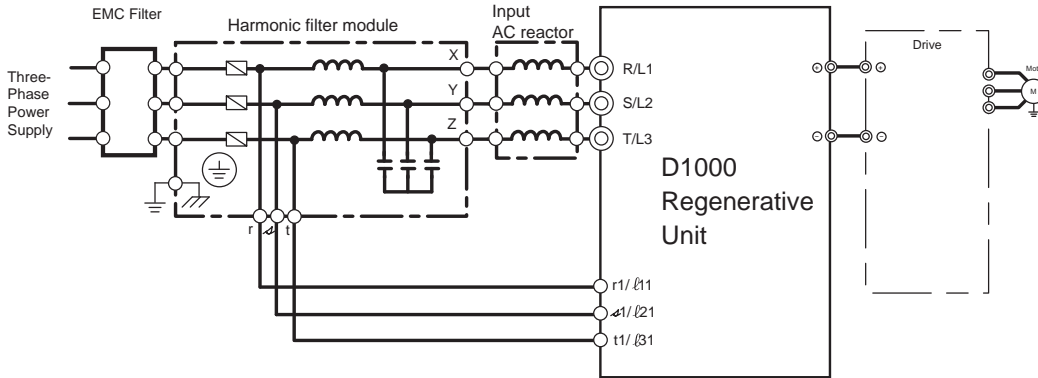
Item	Description	Model Code	
Input / Output	▶ Analogue Monitor 2 channel analogue output option -10 to +10 VDC (Res. 1/2048)	AO-A3	
	▶ Digital Output 8 channel digital output option 6 photo couplers (48 V, 50 mA or less), 2 relay contact outputs max 250 VAC/30 VDC, 1 A	DO-A3	
Communication	▶ Communication Interface Unit	CANopen CC-Link DeviceNet EtherCAT EtherNet/IP MECHATROLINK-II Modbus/TCP POWERLINK PROFIBUS-DP PROFINET	under development under development under development under development under development SI-T3 under development under development under development under development
	▶ 24 V Power Supply	Provides power supply for the control circuit and option boards when main circuit power is off	PS-A10LB PS-A10HB
	▶ USB Copy Unit	USB converter for PC Tool usage and copy unit for easy parameter setup duplication and backup in one	JVOP-181
	▶ IP65 Operator Mounting Frame	Provides a simple way of installing the LCD Remote Operator of the drive on a cabinet wall or door	JVOP-V11001
	▶ Heatsink Outside Mounting Kit	Mount the drive with heatsink outside of the panel	EZZ020800□
	▶ DriveWizard Plus	Software used for parametrization	

Standard Connection Diagram



Dimensions for Models from 5 kW to 185 kW

Connection Diagram



D1000 Regenerative Converter Unit 200 V

Part Number Kit	Part Number	Capacity [kW]	IP	Fig.	Dimensions [mm]								Weight [kg]
D1KIT2□□□□AAAAA	CIMR-DC2A□□□□				W	H	D	W1	H1	H2	D1	d	
0005	0005	5	20	1	180	300	187	160	284	8	75	M5	5
0010	0010	10			220	365	197	192	335	8	78	M6	8
0020	0020	20	00	1	275	450	258	220	435	7.5	100	M6	21
0030	0030	30			325	550	283	260	535	7.5	110	M6	32
0050	0050	50		2	450	705	330	325	680	12.5	130	M10	57
0065	0065	65			450	705	330	325	680	12.5	130	M10	61
0090	0090	90	00	3	500	800	350	370	773	13	130	M12	85
0130	0130	130			500	800	350	370	773	13	130	M12	85

D1000 Regenerative Converter Unit 400 V

Part Number Kit	Part Number	Capacity [kW]	IP	Fig.	Dimensions [mm]								Weight [kg]
D1KIT4□□□□AAAAA	CIMR-DC4A□□□□				W	H	D	W1	H1	H2	D1	d	
0005	0005	5	20	1	180	300	187	160	284	8	75	M5	5
0010	0010	10			220	365	197	192	335	8	78	M6	8
0020	0020	20	00	2	275	450	258	220	435	7.5	100	M6	21
0030	0030	30			325	550	283	260	535	7.5	110	M6	34
0040	0040	40		3	450	705	330	325	680	12.5	130	M10	36
0060	0060	60			450	705	330	325	680	12.5	130	M10	36
0100	0100	100	00	3	500	800	350	370	773	13	130	M12	85
0130	0130	130			500	800	350	370	773	13	130	M12	85
0185	0185	185	00	3	500	800	350	370	773	13	130	M12	85

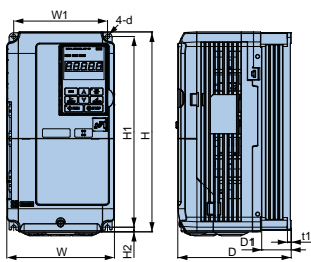


Figure 1

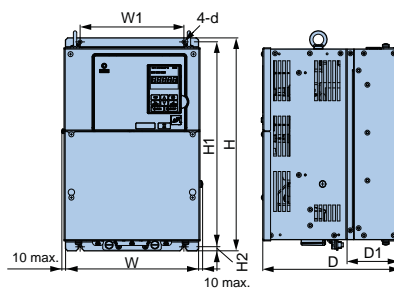


Figure 2

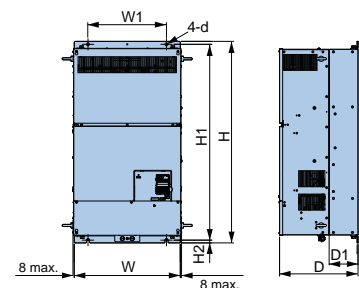


Figure 3

Dimensions Package Components



AC Input Reactor 1 - 200 V Class

Part Number Kit D1KIT2□□□□AAAAA	Part Number	QTY	Fig.	Dimensions [mm]										Weight [kg]
				A	B	B1	C	D	E	F	J	M		
0005	100-106-071	1	4	160	114	172	133	75	95	160	M6	M4	8.2	
0010	100-106-072			205	106	179	173	75	85	205	M6	M5	14	
0020	100-106-073			266	146	238	251	150	115	220	M8	M6	28	
0030	100-106-074			266	161	260	290	150	131	220	M8	M8	38	
0050	100-106-075		5	5	330	161	268	334	170	131	270	M10	M8	65
0065	100-106-076				320	211	306	343	170	181	270	M10	M12	79
0090	100-106-077				380	220	320	382	200	180	320	M12	M12	102
0130	100-106-078				445	240	386	436	240	200	420	M12	M12	164

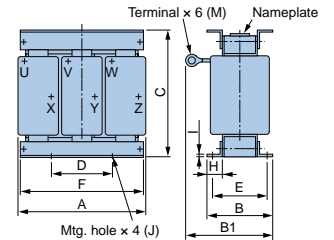


Figure 4*

AC Input Reactor 1 - 400 V Class

Part Number Kit D1KIT4□□□□AAAAA	Part Number	QTY	Fig.	Dimensions [mm]										Weight [kg]
				A	B	B1	C	D	E	F	J	M		
0005	100-106-079	1	4	160	104	162	133	75	85	160	M6	M4	7.1	
0010	100-106-080			206	101	171	173	75	80	205	M6	M4	13	
0020	100-106-081			230	146	207	200	150	115	230	M8	M6	26	
0030	100-106-082			265	161	243	290	150	131	220	M8	M8	34	
0040	100-106-083		5	5	268	176	272	285	150	146	220	M8	M8	44
0060	100-106-084				330	161	273	331	170	131	270	M10	M8	56
0100	100-106-085				320	211	309	366	170	181	270	M10	M8	87
0130	100-106-086				385	235	330	382	200	195	320	M12	M12	122
0185	100-106-087				450	240	335	424	240	200	420	M12	M12	150

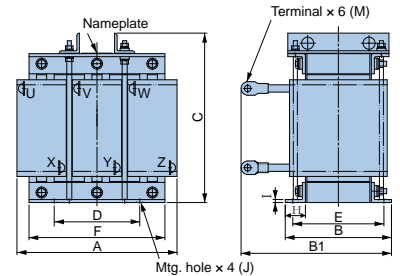


Figure 5*

PWM Filter Module - 200 V Class

Part Number Kit D1KIT2□□□□AAAAA	Part Number	Fig.	Dimensions [mm]							Weight [kg]
			A	B	C	D	E	H		
0005	EUJ710800.KM	6	209	285	176	160	240	M6	6.5	
0010	EUJ710810.KM		209	295	184	160	250	M6	9	
0020	EUJ710820.KM		232	301	265	203	247	M8	14	
0030	EUJ710830.KM		260	305	281	220	256	M8	16	
0050	EUJ710840.KM		290	355	348	250	314	M10	27	
0065	EUJ710850.KM		290	352	350	254	314	M10	38	
0090	EUJ710860.KM		290	352	387	254	314	M10	43	
0130	EUJ710871.KM		350	380	500	290	350	M10	62	

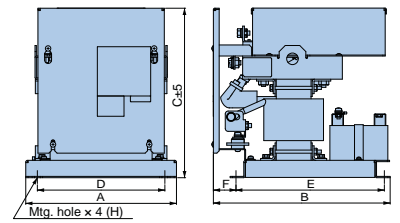


Figure 6*

PWM Filter Module - 400 V Class

Part Number Kit D1KIT4□□□□AAAAA	Part Number	Fig.	Dimensions [mm]							Weight [kg]
			A	B	C	D	E	H		
0005	EUJ710880.KM	6	209	285	176	160	240	M6	7	
0010	EUJ710890.KM		209	295	178	160	250	M6	9	
0020	EUJ710900.KM		232	301	265	203	247	M8	15	
0030	EUJ710910.KM		260	305	293	220	256	M8	17	
0040	EUJ710920.KM		260	305	293	220	256	M8	19	
0060	EUJ710930.KM		290	355	348	250	314	M10	27	
0100	EUJ710940.KM		290	355	385	250	314	M10	39	
0130	EUJ710951.KM		350	380	500	290	350	M10	64	
0185	EUJ710961.KM		350	380	500	290	344	M10	73	

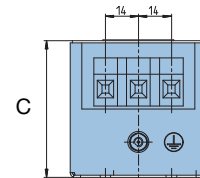
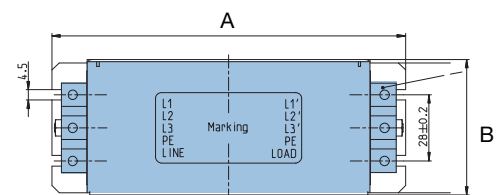


Figure 7*

EMC Filter - 400 V Class

Part Number Kit D1KIT4□□□□AAAAA	Part Number	Figure	Dimensions [mm]			Weight [kg]
			A	B	C	
0005	B84143A0020R106	7	150	57.5	58	0.6
0010	B84143A0020R106		160	72.5	71	0.9
0020	B84143A0035R106		217	84.5	80	1.9
0030	B84143A0065R106		200	170	110	5.0
0060	B84143B0180S080					
0100	B84143B0180S080		290	190	116	7.5
0130	B84143B0400S080					
0185	B84143B0400S080					



* Appearance might change with capacity

Models from 270 kW to 370 kW

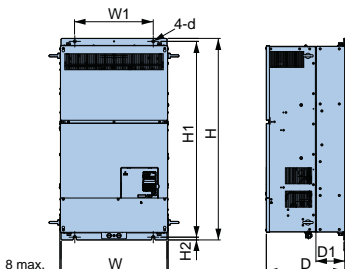


Figure 1

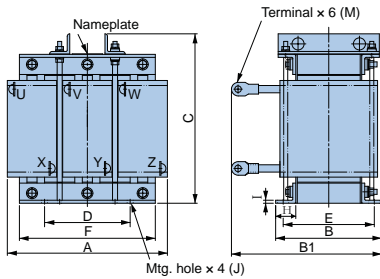


Figure 2*

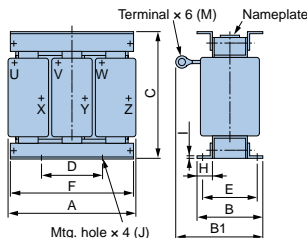


Figure 3

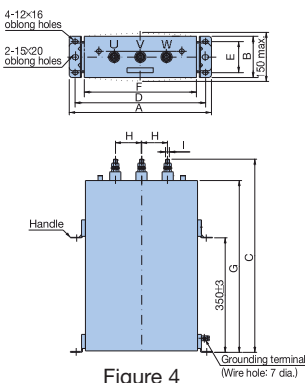


Figure 4

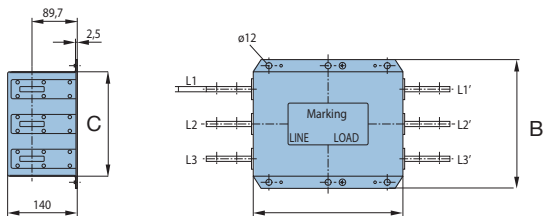
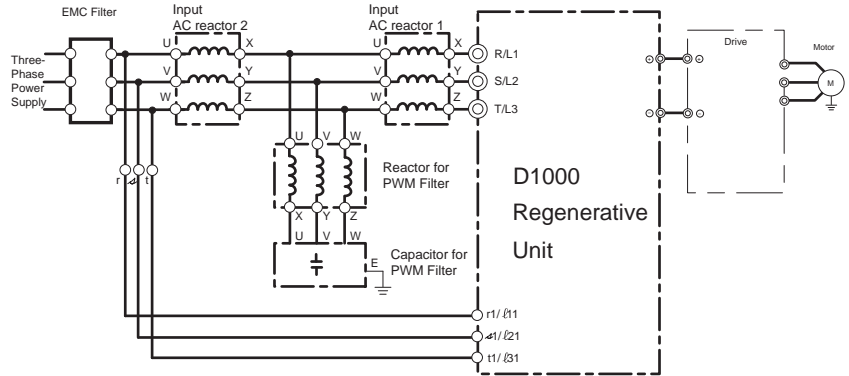


Figure 5



D1000 Regenerative Converter Unit 400 V

Part Number Kit	Part Number	Capacity [kW]	IP	Fig.	Dimensions [mm]							Weight [kg]		
					W	H	D	W1	H1	H2	D1		d	
D1KIT4□□□□AAAAA														
0270	CIMR-DC4A0270	270	00	1	370	1140	370	440	1100	15	150	M12	183	
0370	CIMR-DC4A0370	370											194	

AC Input Reactor 1

Part Number Kit	Part Number	QTY	Fig.	Dimensions [mm]									Weight [kg]	
				A	B	B1	C	D	E	F	J	M		
D1KIT4□□□□AAAAA														
0270	100-106-088	1	2	510	300	410	482	245	250	490	M12	M12	222	
0370	100-106-089			560	320	435	549	300	260	530	M12	M12	293	

AC Input Reactor 2

Part Number Kit	Part Number	QTY	Fig.	Dimensions [mm]									Weight [kg]
				A	B	B1	C	D	E	F	J	M	
D1KIT4□□□□AAAAA													
0270	100-106-090	1	2	330	176	323	326	170	146	270	M10	M12	60
0370	100-106-091			385	220	350	382	200	180	320	M12	M12	102

Reactor for PWM Filter

Part Number Kit	Part Number	Fig.	Dimensions [mm]									Weight [kg]	
			A	B	B1	C	D	E	F	H	J		M
D1KIT4□□□□AAAAA													
0270	100-106-096	3	163	107	150	135	75±2	85±2	163	25	M6	M8	6.3
0370	100-106-097		182	102	157	150	75±2	80±2	182	25	M6	M8	7.6

Capacitor for PWM Filter

Part Number Kit	Part Number	Fig.	Dimensions [mm]									Weight [kg]	
			A	B	C	D	E	F	G	H	I		
D1KIT4□□□□AAAAA													
0270	100-106-093	4	438	128	502	398±3	95±2	345	433	80±5	M12	27	
0370	100-106-094		438	128	602	398±3	95±2	345	533	80±5	M12	33	

EMC Filter - 400 V Class

Part Number Kit	Part Number	Fig.	Dimensions [mm]			Weight [kg]
			A	B	C	
D1KIT4□□□□AAAAA						
0270	B84143B1000S080	5	300	260	140	18.5
0370	B84143B1000S080					

Models with 630 kW

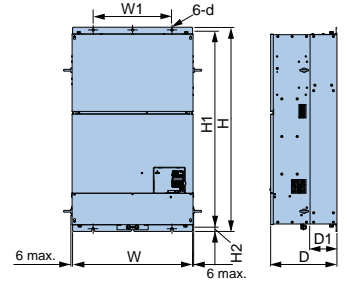
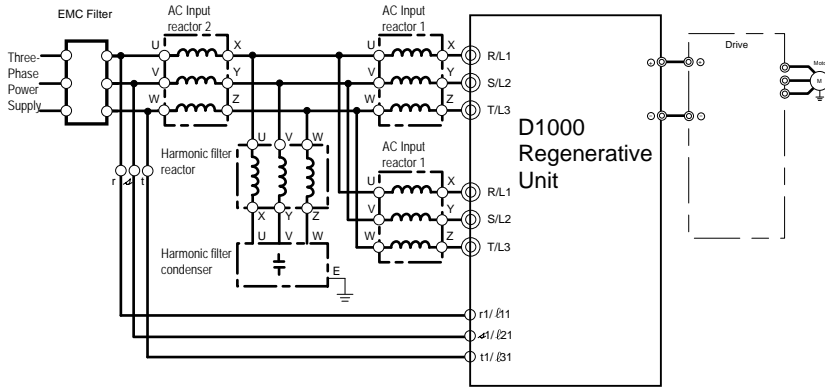
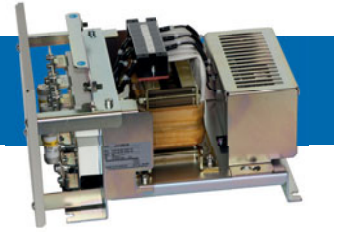


Figure 1

D1000 Regenerative Converter Unit 400 V

Part Number Kit	Part Number	Capacity [kW]	IP	Fig.	Dimensions [mm]								Weight [kg]
					W	H	D	W1	H1	H2	D1	d	
D1KIT40630AAAAA	CIMR-DC4A0630	630	00	1	1250	1380	370	1100	1345	15	150	M12	413

AC Input Reactor 1

Part Number Kit	Part Number	QTY	Fig.	Dimensions [mm]										Weight [kg]
				A	B	B1	C	D	E	F	J	M		
D1KIT40630AAAAA	100-106-089	2	2	560	320	435	549	300	260	530	M12	M12	293	

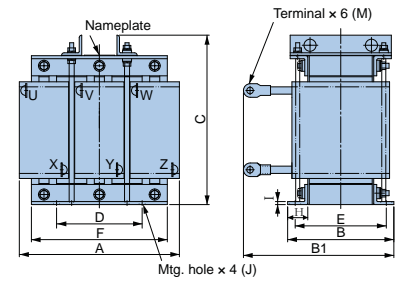


Figure 2

AC Input Reactor 2

Part Number Kit	Part Number	QTY	Fig.	Dimensions [mm]								Weight [kg]
				A	B	B1	C	D	E	J	M	
D1KIT40630AAAAA	100-106-092	1	3	452	375	635	545	302	335	M12	M12	172

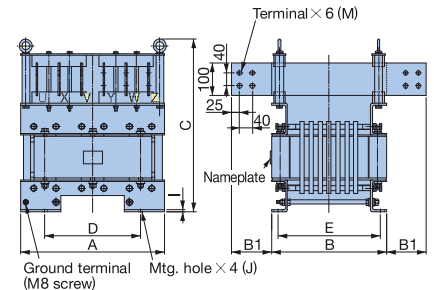


Figure 3

Reactor for PWM Filter

Part Number Kit	Part Number	Fig.	Dimensions [mm]									Weight [kg]	
			A	B	B1	C	D	E	F	H	J		M
D1KIT40630AAAAA	100-106-098	4	210	102	171	190	75	80	205	25	M6	M10	12

Capacitor for PWM Filter

Part Number Kit	Part Number	Fig.	Dimensions [mm]									Weight [kg]	
			A	B	C	D	E	F	G	H	H1		I
D1KIT40630AAAAA	100-106-095	5	695	128	582	655±3	95±2	602	513	80±5	60±5	M12	55

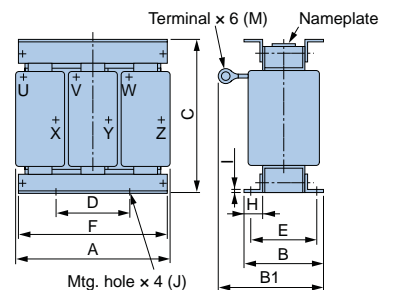


Figure 4

EMC Filter - 400 V Class

Part Number Kit	Part Number	Fig.	Dimensions [mm]			Weight [kg]
			A	B	C	
D1KIT40630AAAAA	B84143B1600S080	6	300	260	210	24.5

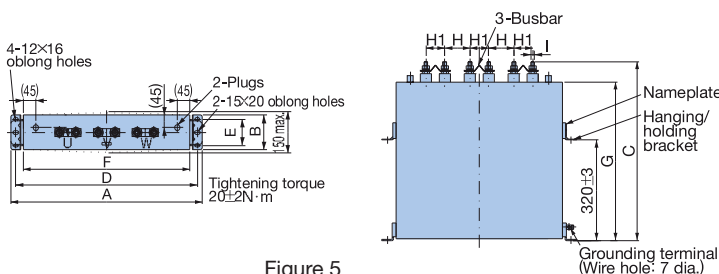


Figure 5

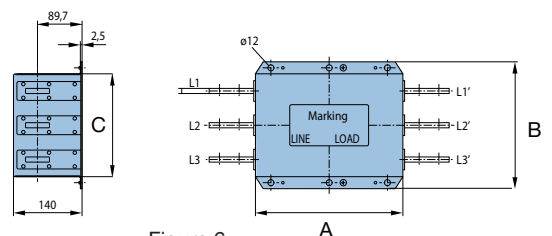


Figure 6



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