



## DC Drives DV300

The DV300 is a three phase, six pulse converter which is available in either non-regenerative or fully regenerative design. This drive precisely regulates motor speed, current and field (field weakening and field economy are standard).

### Digital DC technology

The DV300 provides the needed flexibility for industrial applications. Utilizes digital control and a custom chip set which allow precise regulation of motor speed, current and field; providing reliable, consistent and repeatable performance. This performance makes the DV300 the drive for choice for a wide array of industries including textiles, paper converting, plastics converting, corrugating, wire draeing, rubber and plastics, metal processing, machine tools, material handling and more.

### Easy set-up and tuning

To allow for easy startup and tuning, the DV300 offers two choices, an optional keypad programmer or the standard PC configurator tool. The Windows™-based PC configurator tool enables the user to set up drive parameters, enter motor data, and program drive I/O. Time is saved by archiving and downloading drive parameters to ease setup of similar applications. Menu and detailed help screens simplify the drive configuration.

### Applications

Textiles  
Paper converting  
Plastics converting  
Rubber and plastics  
Metal processing  
Machine tools  
Corrugating  
Material handling  
Wire drawing

### Custom regulators and features

The DV300 drive can handle difficult applications and complex operations with the addition of a Digital General Function (DGF) card. The DGF card is an optional Intel™386 Microprocessor-based board which allows application specific regulators, provides special sequencing operations, and solves other drive control challenges.

### Plug and Play communications options

A wide range of advanced communication capabilities is available for the DV300 drive. The drive communicates on a high speed serial link including the following protocol options: Interbus-S™, Profibus-DP™, DeviceNet™, and Genius®.

These c6004n5cat56n 6-t56ns a336w the dr5ve -r6cess c6ntr63, and the data c633ect56n syste0 t6 be easily integrated.

### GE Control System Toolbox software

With its PC-Based Configuration and Control, the DV300 is easy to set up, easy to run and easy to monitor.

The DV300 is configured by the GE Control System Toolbox<sup>(1)</sup>, an intuitive control system that utilizes configuration wizards, animated block diagrams and an integrated trend window to save valuable time in commissioning. «Toolbox» provides customizable controls for real-time monitoring and operation right from the PC screen. And the DV300 drive works with a wide variety of popular communication buses, PLCs and HMIs.

### And more ....

Other options include additional I/O, removable keypad programmer, keypad door mount kit, and an encoder signal repeater.

(1) - A RS485/232 converter (6KCV300CTI) and communication cable is required for communication between DV300 and the PC.  
- A CD-Rom containing the GE Toolbox software is delivered with each drive.



## DV300. Options and Accessories

### Digital general function card

Card allows user to implement high performance software for specific applications such as winders, position control, PID functions, etc.

6KCV300DGF	414650
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### DeviceNet option board

Requires the use of the DGF card. Allows communication between a master DGF card and up to 63 slave DGF cards. Provides drive control and diagnostics.

6KCV300DCN	414651
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### SBI DeviceNet option board

Allows communication between a master and up to 63 slaves. Provides drive control and diagnostics (DGF card not required).

6KCV300DVN	414652
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### Profibus-DP Bus communication option card

Allows connection to the Profibus fieldbus network. Provides drive control and diagnostics capability.

6KCV300PDP	418012
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### Interbus-S Bus communication option card

Allows connection to the Interbus fieldbus network. Provides drive control and diagnostics capability.

6KCV300INS	414654
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### RS 485/232 converter

Converter module that allows connection between the RS 232 serial output of a computer and the RS 485 input of the AV300i or DV300. This unit allows for a single or multidrop connection.

6KCV300CTI	414038
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### Cable

To use with the converter

6KCV8S8F59	414371
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### Digital encoder to sinusoidal converter

Allows the adaptation, galvanic separation, and connection of a digital encoder to the input XE1 on the drives. XE1 is supplied as a connection for a sinusoidal encoder.

6KCV300DES	414017
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### I/O expansion option board

Allows the addition of four digital inputs, four digital outputs, and two analog outputs. It is possible to connect two of these per drive

6KCV300TBO	418010
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### Keypad programmer

Allows the configuration of the drive without the need for a PC. Enable, disable, start/stop, monitor and configure the drive using the two line LCD display.

6KCV300KPU	414016
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### External keypad mounting kit

Allows for the remote mounting of the keypad. Includes a two meter cable, template, and mounting plate for door mounting.

6KCV300KPM	414134
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### Win + Drive

A Windows based graphic programming tool used to develop custom regulator schemes, special sequencing operations, and many other drive control applications.

6KCV300WPD	414660
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Used in conjunction with the Digital general function card.

### Genius communication option board

Allows connection to GE Fanuc's Genius fieldbus network. Provides complete drive control and diagnostic capability.

HE300GEN200	414661
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## Filters

Main voltage: 230-400V			Main voltage: 500V		
Drive	EMC Filter	Ref. no.	Drive	EMC Filter	Ref. no.
6KDV3020	COMP 480-30	414380	6KDV3017	COMP 520-30	414399
6KDV3040	COMP 480-42	414385	6KDV3035	COMP 520-42	414400
6KDV3070	COMP 480-75	414387	6KDV3056	COMP 520-75	414402
6KDV3110	COMP 480-100	414388	6KDV3088	COMP 520-100	414403
6KDV3140	COMP 480-130	414389	6KDV3112	COMP 520-130	414404
6KDV3185	COMP 480-180	414390	6KDV3148	COMP 520-180	414405
6KDV3280	RANGER 520-280	414391	6KDV3224	RANGER 520-280	414391
6KDV3350	RANGER 520-450	414392	6KDV3280	RANGER 520-450	414392
6KDV3420	RANGER 520-450	414392	6KDV3336	RANGER 520-450	414392
6KDV3500	RANGER 520-450	414392	6KDV3400	RANGER 520-450	414392
6KDV3650	RANGER 520-600	414393	6KDV3450	RANGER 520-600	414393
6KDV3770	RANGER 520-900	414394	6KDV3560	RANGER 520-900	414394
6KDV310H	RANGER 520-900	414394	6KDV3800	RANGER 520-900	414394
			6KDV3850	RANGER 520-900	414394
6KDV31200	RANGER 520-1200	414395	6KDV31000	RANGER 520-1200	414395



## DV300. Non regenerative / Non reversing (two quadrants)

	Output current		Max. output voltage (1)	Max. field current	Losses (2)	Cat. no.	Ref. no.
	Continuous rating no overload (3)	Continuous rating overload 150% 1 minute (4)					
	(A)	(A)					
Input voltage: 3 ph, 230-400V ± 10% 50/60Hz ± 5%	20	-	470	10	131	6KDV3020Q2A10 --	414550
	40	-	470	10	186	6KDV3040Q2A10 --	414551
	70	-	470	10	254	6KDV3070Q2A10 --	414552
	110	-	470	14	408	6KDV3110Q2A14 --	414553
	140	-	470	14	476	6KDV3140Q2A14 --	414554
	185	-	470	14	553	6KDV3185Q2A14 --	414555
	280	-	470	20	781	6KDV3280Q2A20 --	414556
	350	-	470	20	939	6KDV3350Q2A20 --	414557
	420	-	470	20	1038	6KDV3420Q2A20 --	414558
	500	-	470	20	1248	6KDV3500Q2A20 --	414559
	650	-	470	20	1693	6KDV3650Q2A20 --	414560
	770	-	470	25	2143	6KDV3770Q2A25 --	414561
	1000	-	470	25	2590	6KDV310H0Q2A25 --	414562
	1200	-	470	40	3500	6KDV31200Q2A40 --	414563
	1500	-	470	40	3500	6KDV31500Q2A40 --	414564
	1800	-	470	40	5200	6KDV31800Q2A40 --	414565
	2000	-	470	40	5400	6KDV32000Q2A40 --	414566
2400	-	470	70	6800	6KDV32400Q2A70 --	414567	
2700	-	470	70	8700	6KDV32700Q2A70 --	414568	
2900	-	470	70	8700	6KDV32900Q2A70 --	414569	
3300	-	470	70	9500	6KDV33300Q2A70 --	414570	
Input voltage: 3 ph, 230-500V ± 10% 50/60Hz ± 5%	-	17	600	10	131	6KDV3017Q2B10 --	414571
	-	35	600	10	186	6KDV3035Q2B10 --	414572
	-	56	600	10	254	6KDV3056Q2B10 --	414573
	-	88	600	14	408	6KDV3088Q2B14 --	414574
	-	112	600	14	476	6KDV3112Q2B14 --	414575
	-	148	600	14	553	6KDV3148Q2B14 --	414576
	-	224	600	20	781	6KDV3224Q2B20 --	414577
	-	280	600	20	939	6KDV3280Q2B20 --	414578
	-	336	600	20	1038	6KDV3336Q2B20 --	414579
	-	400	600	20	1248	6KDV3400Q2B20 --	414580
	-	450	600	20	1693	6KDV3450Q2B20 --	414581
	-	560	600	25	2143	6KDV3560Q2B25 --	414582
	-	800	600	25	2590	6KDV3800Q2B25 --	414583
	-	1000	600	40	3500	6KDV31000Q2B40 --	414584
	-	1300	600	40	3500	6KDV31300Q2B40 --	414585
	-	1400	600	40	5200	6KDV31400Q2B40 --	414586
	-	1500	600	40	5400	6KDV31500Q2B40 --	414587
-	1800	600	70	6800	6KDV31800Q2B70 --	414588	
-	2000	600	70	8700	6KDV32000Q2B70 --	414589	
-	2200	600	70	8700	6KDV32200Q2B70 --	414590	
-	2350	600	70	9500	6KDV32350Q2B70 --	414591	
Input voltage: 3 ph, 230-690V ± 10% 50/60Hz ± 5%	-	900	810	40	3500	6KDV30900Q2C40 --	414592
	-	1150	810	40	4900	6KDV31150Q2C40 --	414593
	-	1350	810	40	6700	6KDV31350Q2C40 --	414594
	-	1500	810	40	6800	6KDV31500Q2C40 --	414595
	-	1800	810	70	8000	6KDV31800Q2C70 --	414596
	-	2000	810	70	8700	6KDV32000Q2C70 --	414597
	-	2350	810	70	9500	6KDV32350Q2C70 --	414598

- (1) Achieved with maximum input voltage  
 (2) Losses at maximum IEC current  
 (3) European version  
 (4) American version

**Remarks** 1. In order to increase the operating safety of the converters of DV300 series, it is necessary to mount a three phase input choke. This is also necessary to keep the limits for EMC Class A or B with EN 55011. Ask your dealer for specific values  
 2. Drives up to 650A do not include power semiconductor fuses. Please ask your dealer for that

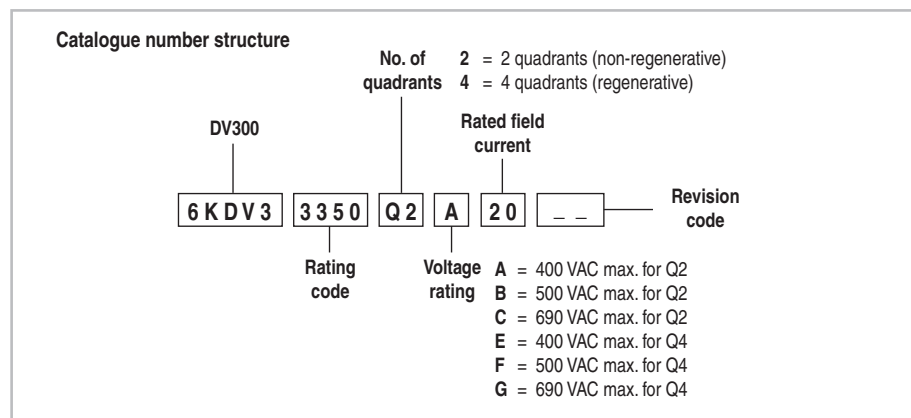


### DV300. Regenerative / Reversing (four quadrants)

	Output current		Max. output voltage (1)	Max. field current	Losses (2)	Cat. No.	Code
	Continuous rating no overload (3)	Continuous rating overload 150% 1 minunte (4)					
	(A)	(A)					
Input voltage: 3 ph, 230-400V ± 10% 50/60Hz ± 5%	20	-	420	10	131	6KDV3020Q4E10 --	414600
	40	-	420	10	186	6KDV3040Q4E10 --	414601
	70	-	420	10	254	6KDV3070Q4E10 --	414602
	110	-	420	14	408	6KDV3110Q4E14 --	414603
	140	-	420	14	476	6KDV3140Q4E14 --	414604
	185	-	420	14	553	6KDV3185Q4E14 --	414605
	280	-	420	20	781	6KDV3280Q4E20 --	414606
	350	-	420	20	939	6KDV3350Q4E20 --	414607
	420	-	420	20	1038	6KDV3420Q4E20 --	414608
	500	-	420	20	1248	6KDV3500Q4E20 --	414609
	650	-	420	20	1693	6KDV3650Q4E20 --	414610
	770	-	420	25	2143	6KDV3770Q4E25 --	414611
	1050	-	420	25	2590	6KDV310H0Q4E25 --	414612
	1500	-	420	40	4900	6KDV31500Q4E40 --	414613
	1700	-	420	40	5200	6KDV31700Q4E40 --	414614
2000	-	420	40	5400	6KDV32000Q4E40 --	414615	
2400	-	420	70	6800	6KDV32400Q4E70 --	414616	
2700	-	420	70	8700	6KDV32700Q4E70 --	414617	
Input voltage: 3 ph, 230-500V ± 10% 50/60Hz ± 5%	-	17	520	10	131	6KDV3017Q4F10 --	414618
	-	35	520	10	186	6KDV3035Q4F10 --	414619
	-	56	520	10	254	6KDV3056Q4F10 --	414620
	-	88	520	14	408	6KDV3088Q4F14 --	414621
	-	112	520	14	476	6KDV3112Q4F14 --	414622
	-	148	520	14	553	6KDV3148Q4F14 --	414623
	-	224	520	20	781	6KDV3224Q4F20 --	414624
	-	280	520	20	939	6KDV3280Q4F20 --	414625
	-	336	520	20	1038	6KDV3336Q4F20 --	414626
	-	400	520	20	1248	6KDV3400Q4F20 --	414627
	-	450	520	20	1693	6KDV3450Q4F20 --	414628
	-	560	520	25	2143	6KDV3560Q4F25 --	414629
	-	850	520	25	2590	6KDV3850Q4F25 --	414630
	-	1300	520	40	4900	6KDV31300Q4F40 --	414631
	-	1350	520	40	5200	6KDV31350Q4F40 --	414632
-	1500	520	40	5400	6KDV31500Q4F40 --	414633	
-	1800	520	70	6800	6KDV31800Q4F70 --	414634	
-	2000	520	70	8700	6KDV32000Q4F70 --	414635	
Input voltage: 3 ph, 230-690V ± 10% 50/60Hz ± 5%	-	900	720	40	3500	6KDV30900Q4G40 --	414636
	-	1150	720	40	4900	6KDV31150Q4G40 --	414637
	-	1350	720	40	6700	6KDV31350Q4G40 --	414638
	-	1500	720	40	6800	6KDV31500Q4G40 --	414639
	-	1800	720	70	8000	6KDV31800Q4G70 --	414640
	-	2000	720	70	8700	6KDV32000Q4G70 --	414641

(1) Achieved with maximum input voltage  
(2) Losses at maximum IEC current

(3) European version  
(4) American version



## Technical data

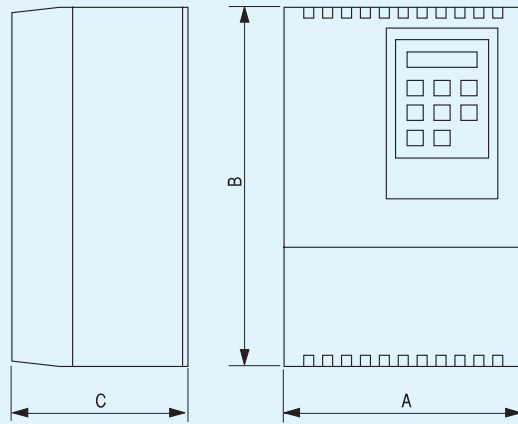
### Specifications

Item	Description
<b>AC input</b>	
Armature	230 to 690VAC +/-10%, 3 phase
Control power	115 to 230VAC +/-10%, single phase
Field	230 to 460VAC +/-10%, single phase
<b>Output</b>	
Armature	Full controlled 6 pulse thyristor bridge 20-3200A (2Q) / 2700A (4Q)
Field	Semi-controlled diode/thyristor bridge 20-70A
<b>Performance</b>	
	Regenerative and non-regenerative
	Speed, current and field weakening regulation
Speed regulation	Digital encoder: 0,02%
	Sinusoidal encoder: 0,01%
	DC tach: up to 0,1%
	CEMF: 1 - 2%
<b>Programmable</b>	
Four accel/decel ramps	Each independently adjustable from 0 to 65.000 seconds
Ramp types	Linear, S-curve S-curve shape is adjustable through special time constant parameters
Min/Max speed limits	With independent adjustments for forward and reverse speeds
Adjustable current limits (monitoring and braking)	Estándar 150% durante 60 segundos
Seven preset speeds	Selectable through three contact closures
Password protection	5-digit combination, selectable by the user
Field control	Current regulation - Field weakening voltage regulation - Disable for external supply - Field economy
Jog functions	Reference from internal parameter or external reference potentiometer. Can be programmed with or without linear time
Zero speed functionality	Includes zero speed level, zero speed threshold and delay detection
Tach feedback bypass	Drive automatically switches to armature voltage feedback if the latch signal is lost
Catch a spinning motor (auto capture)	Allows restart of drive with a rotating motor
Reset to default	Aids in start-up and troubleshooting
<b>Protective functions</b>	
	<ul style="list-style-type: none"> <li>- Field loss</li> <li>- Overvoltage/Undervoltage</li> <li>- Motor overtemperature</li> <li>- Motor overload</li> <li>- Tach loss</li> <li>- Option card failure</li> <li>- Heatsink overtemperature</li> <li>- Overcurrent</li> <li>- Customer's external faults</li> <li>- Communication card failure</li> <li>- Enable sequence error</li> <li>- Fault data history (last ten faults)</li> </ul>
<b>Protective functions</b>	
Analogue inputs	3 differential, 12 bit programmable selectable for +/- 10VDC, 0-20mA, 0-10VDC, 4-20mA
Digital inputs	4 fixed 24VDC (Enable, Start/Stop, Fast stop, External fault)
Digital outputs	1 drive OK normally open contact 1 programmable normally open contact
Built-in RS485 communications port	Allows communication with drive for setup and troubleshooting
Sinusoidal encoder input (with internal 5VDC available from drive)	Provides the best speed regulation
Digital tach (with internal 24VDC available from drive)	Utilises standard digital tachometer for speed regulation
DC tach input	Utilises analog DC tachometers for speed regulation
<b>Ambient conditions</b>	
Ambient temperature	0 to +40°C
Relative humidity	5 to 85% (without condensation)
Altitude	Up to 1.000 meters without derating
Enclosure	IP20 - open chassis
<b>Electrical standards</b>	
	CE by using EMC filters
	cUL
	IEC: Low Voltage Directive EN50178

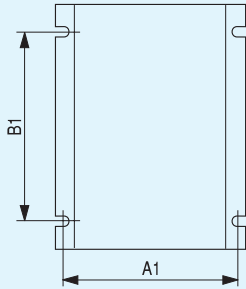


# Dimensional drawings

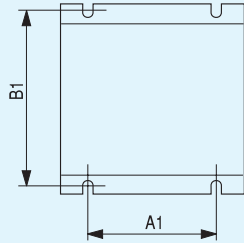
## Package 2Q / 4Q inverters



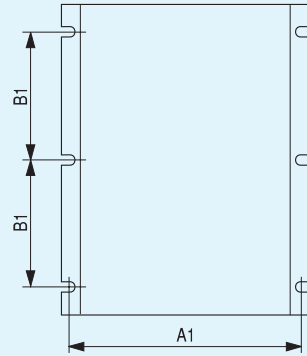
Form 1



Form 2



Form 3

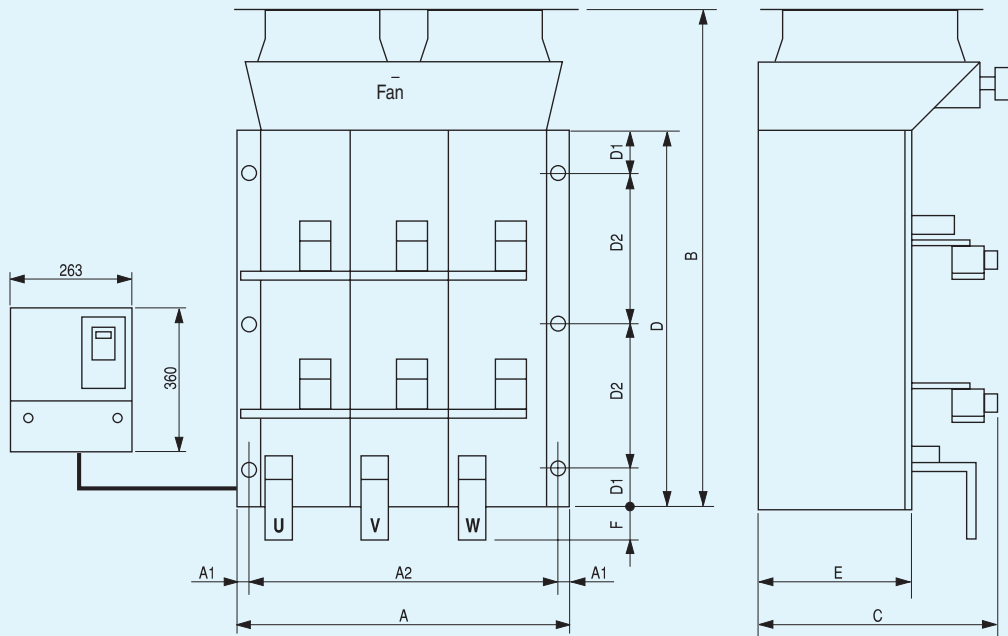


Cat. no.	Dimensions (mm)							Weight (kg)	
	Form	A	B	C	A1	B1	M.		
6KDV3020Q2A	6KDV3017Q2B	1	263	360	274	250	275	M6	8.4
6KDV3020Q4E	6KDV3017Q4F	1	263	360	274	250	275	M6	8.4
6KDV3040Q2A	6KDV3035Q2B	1	263	360	274	250	275	M6	8.4
6KDV3040Q4E	6KDV3035Q4F	1	263	360	274	250	275	M6	8.4
6KDV3070Q2A	6KDV3056Q2B	1	263	360	274	250	275	M6	8.8
6KDV3070Q4E	6KDV3056Q4F	1	263	360	274	250	275	M6	8.8
6KDV3110Q2A	6KDV3088Q2B	1	263	360	274	250	275	M6	10.8
6KDV3110Q4E	6KDV3088Q4F	1	263	360	274	250	275	M6	10.8
6KDV3140Q2A	6KDV3112Q2B	1	263	360	274	250	275	M6	10.8
6KDV3140Q4E	6KDV3112Q4F	1	263	360	274	250	275	M6	10.8
6KDV3185Q2A	6KDV3148Q2B	1	263	360	274	250	275	M6	10.8
6KDV3185Q4E	6KDV3148Q4F	1	263	360	274	250	275	M6	10.8
6KDV3280Q2A	6KDV3224Q2B	2	311	388	338	275	375	M6	25.5
6KDV3280Q4E	6KDV3224Q4F	2	311	388	338	275	375	M6	25.5
6KDV3350Q2A	6KDV3280Q2B	2	311	388	338	275	375	M6	24.5
6KDV3350Q4E	6KDV3280Q4F	2	311	388	338	275	375	M6	24.5
6KDV3420Q2A	6KDV3336Q2B	2	311	388	338	275	375	M6	29.5
6KDV3420Q4E	6KDV3336Q4F	2	311	388	338	275	375	M6	29.5
6KDV3500Q2A	6KDV3400Q2B	2	311	388	338	275	375	M6	29.5
6KDV3500Q4E	6KDV3400Q4F	2	311	388	338	275	375	M6	29.5
6KDV3650Q2A	6KDV3450Q2B	2	311	388	368	275	375	M6	32
6KDV3650Q4E	6KDV3450Q4F	2	311	388	368	275	375	M6	32
6KDV3770Q2A	6KDV3560Q2B	3	521	510	402	500	200	M6	61
6KDV3770Q4E	6KDV3560Q4F	3	521	510	402	500	200	M6	61
6KDV310HQ2A	6KDV3800Q2B	3	521	510	402	500	200	M6	65
6KDV310HQ4E	6KDV3850Q4F	3	521	510	402	500	200	M6	65



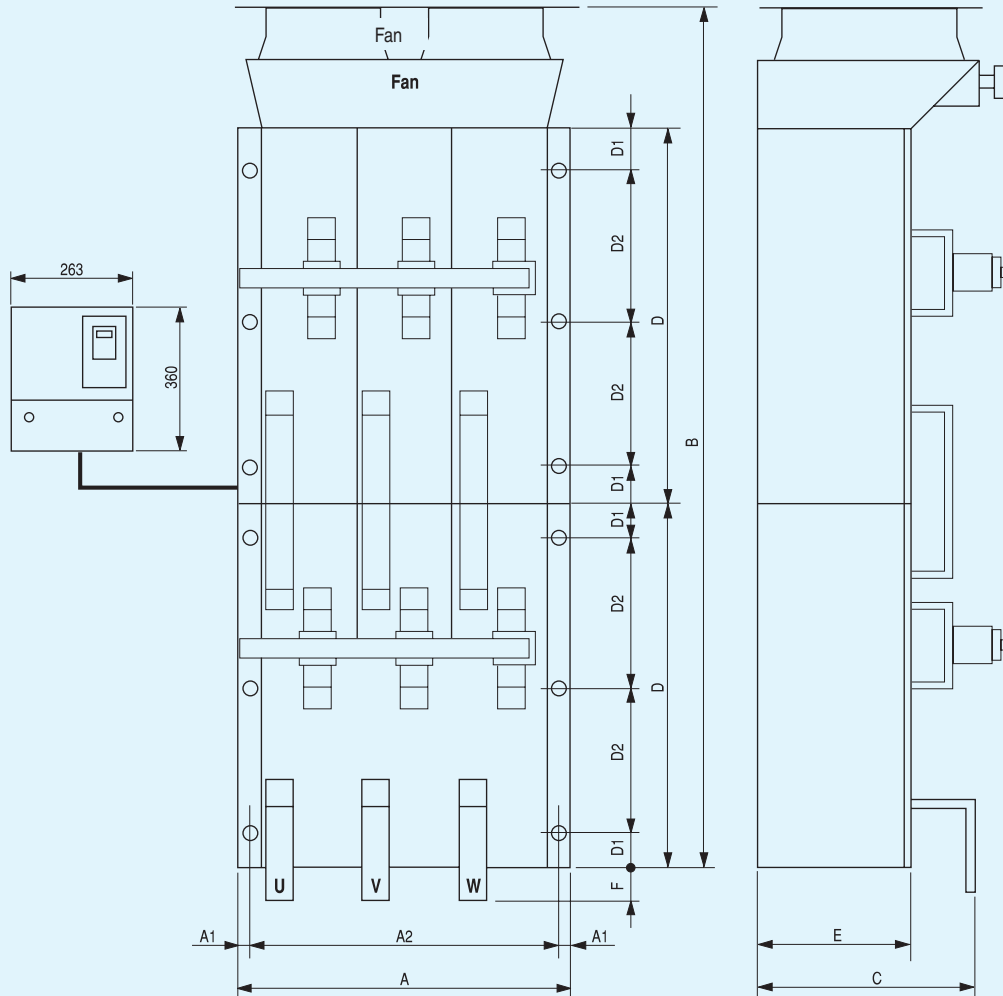
## Dimensional drawings

### Converters 2Q with external bridge



Cat. no.	Dimensions (mm)										Weight (kg)
	A	B	C	D	E	F	A1	A2	D1	D2	
6KDV30900Q2C	500	760	275	550	153	95	10	480	50	225	70
6KDV31200Q2A	500	570	275	360	153	75	10	480	50	-	65
6KDV31000Q2B	500	570	275	360	153	75	10	480	50	-	65
6KDV31150Q2C	500	760	275	550	153	95	10	480	50	225	70
6KDV31500Q2A	500	760	275	550	153	95	10	480	50	225	70
6KDV31300Q2B	500	760	275	550	153	95	10	480	50	225	70
6KDV31350Q2C	620	764	360	550	233	95	10	600	50	225	100
6KDV31800Q2A	500	760	275	550	153	95	10	480	50	225	70
6KDV31400Q2B	500	760	275	550	153	95	10	480	50	225	70
6KDV32000Q2A	500	760	275	550	153	95	10	480	50	225	70
6KDV31500Q2B	500	760	275	550	153	95	10	480	50	225	70
6KDV31500Q2C	620	764	360	550	233	95	10	600	50	225	100
6KDV32400Q2A	620	764	360	550	233	95	10	600	50	225	100
6KDV31800Q2B	620	764	360	550	233	95	10	600	50	225	100
6KDV31800Q2C	712	775	395	560	255	95	10	692	50	230	140
6KDV32700Q2A	712	785	395	600	255	95	10	692	50	280	140
6KDV32000Q2B	712	785	395	660	255	95	10	692	50	280	140
6KDV32000Q2C	712	775	395	560	255	95	10	692	50	230	140
6KDV32900Q2A	712	775	395	560	255	140	10	692	50	230	140
6KDV32200Q2B	712	775	395	560	255	140	10	692	50	230	140
6KDV33300Q2A	780	1180	420	875	295	125	25	730	25	300	260
6KDV32350Q2B	780	1180	420	875	295	125	25	730	25	300	260
6KDV32350Q2C	780	1180	420	875	295	125	25	730	25	300	260

## Converters 4Q with external bridge

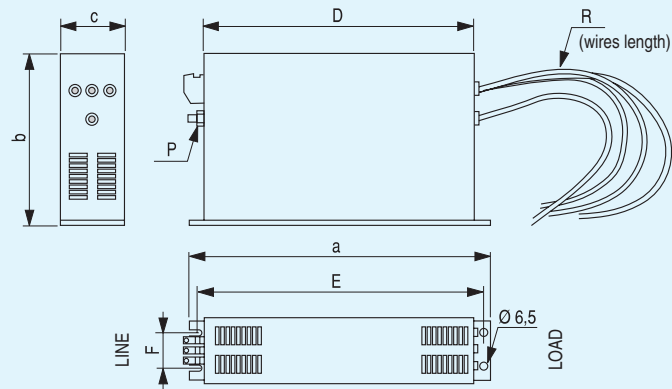


Cat. no.	Dimensions (mm)										Weight (kg)
	A	B	C	D	E	F	A1	A2	D1	D2	
6KDV30900Q4G	500	1310	375	550	153	95	10	480	50	225	130
6KDV31150Q4G	500	1310	375	550	153	95	10	480	50	225	130
6KDV31500Q4E	500	1310	375	550	153	95	10	480	50	225	130
6KDV31300Q4F	500	1310	375	550	153	95	10	480	50	225	130
6KDV31700Q4E	500	1310	375	550	153	95	10	480	50	225	130
6KDV31350Q4F	500	1310	375	550	153	95	10	480	50	225	130
6KDV31350Q4G	620	1314	475	550	233	95	10	600	50	225	170
6KDV32000Q4E	500	1310	375	550	153	95	10	480	50	225	130
6KDV31500Q4F	500	1310	375	550	153	95	10	480	50	225	130
6KDV31500Q4G	620	1314	475	550	233	95	10	600	50	225	170
6KDV32400Q4E	620	1314	495	550	233	95	10	600	50	225	170
6KDV31800Q4F	620	1314	495	550	233	95	10	600	50	225	170
6KDV31800Q4G	712	1335	475	560	255	95	10	692	50	230	240
6KDV32700Q4E	712	1535	490	660	255	100	10	692	50	280	240
6KDV32000Q4F	712	1535	490	660	255	100	10	692	50	280	240
6KDV32000Q4G	712	1335	475	560	255	95	10	692	50	230	240



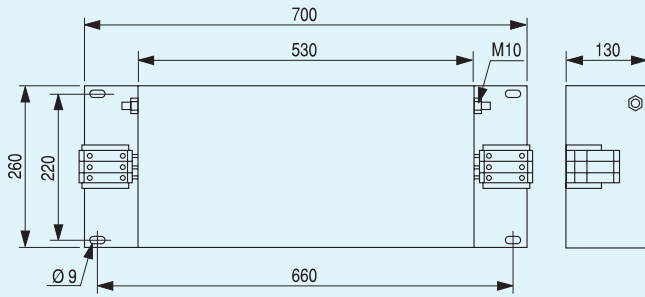
## Dimensional drawings

### Book filter

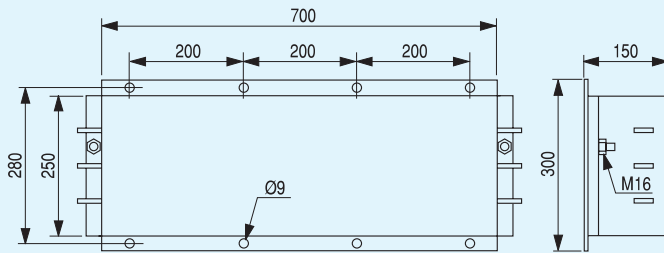


Cat. no.	Dimensions (mm)								Weight (kg)
	a	b	c	d	D1	E1	R	P	
COMP480-30	335	150	60	305	320	35	400	M5	1.8
COMP480-42	330	220	70	300	314	45	400	M6	2.8
COMP480-75	330	220	80	300	314	55	-	M6	4
COMP480-100	379	220	90	350	364	65	-	M10	5.5
COMP480-130	430	240	110	400	414	80	-	M10	7.5
COMP480-180	438	240	110	400	414	50	500	M10	11
COMP520-30	335	150	60	305	320	35	400	M5	1.65
COMP520-42	329	185	70	300	314	45	500	M6	2.25
COMP520-75	329	220	80	300	314	55	-	M6	3.35
COMP520-100	379	220	90	350	364	65	-	M10	4.5
COMP520-130	429	240	110	400	414	80	-	M10	5.7
COMP520-180	438	240	110	400	414	50	500	M10	6.1

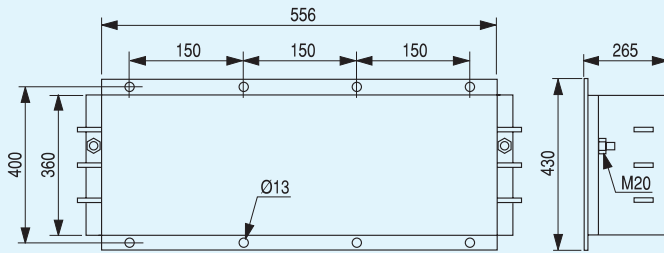
## Stand alone filter



Cat. no.	Weight (kg)
RANGER 520-280	28



Cat. no.	Weight (kg)
RANGER 520-450	45
RANGER 520-600	45



Cat. no.	Weight (kg)
RANGER 520-900	135
RANGER 520-1200	140

Dimensions in mm