



GK620

General Purpose AC Drives

The GK620 series are the drives that cover general purpose applications when they are requiring V/Hz and speed sensor-less vector control.



POWER RATINGS

3 x 380-480 V 0.75 - 630 kW

Versatile & Multifunctional

- Promoted V/Hz
- SVC1
- SVC2
- Multi-step Freq.
- Precise autotune
- Detachable Control Panel
- I/O options
- ModBus, ModbusTCP, CAN, CANopen, Profibus, Profinet
- Frequency Binding
- Parameter Copy & Backup
- Flying Start
- Parameter Displayed & Hidden
- Master & Auxiliary command & switchover
- PID
- FDT
- S-curve
- Simple PLC
- 2 Motor Switchover
- Wobble Frequency Control
- Fixed Length Control
- Droop Control
- Skip Frequency
- Count Function
- Preeminent Field-weakening Control
- V/Hz Separated Control
- Common DC Bus
- Over Excitation Brake
- Mechanical Brake
- Restart Upon Power Loss
- Cycle-By-Cycle Current Limit
- Motor Thermal Protection
- Stall Protections
-

Start Torque @0.25Hz
180%

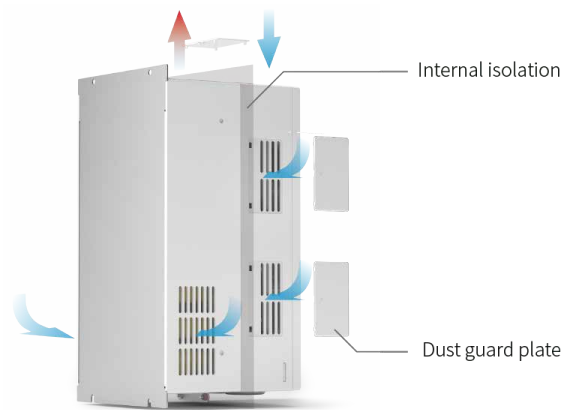
Overload Capability
200%

Speed accuracy \pm
0.2%

Ambient Temp °C
50

Speed Regulation
1:200

Torque Response ms
10



TERMINAL

Analog Input	x2 [3]^{*1}	Analog Output	x1 [3]	Relay Output	x1 [3]
Digital Input	x6 [8]	Digital Output ^{*2}	x2	Communication Port ^{*3}	x1
Option Board Interface	x1	for Fieldbus options or I/O options			

*1 A [B]: A - local B - extensible

*2 One of which (Y2/DO) supports high-speed pulse output

*3 RS485/ModBus ONLY 4800/9600/19200/38400/57600/115200bps Maximum distance - 500m

OPTION

Fieldbus options

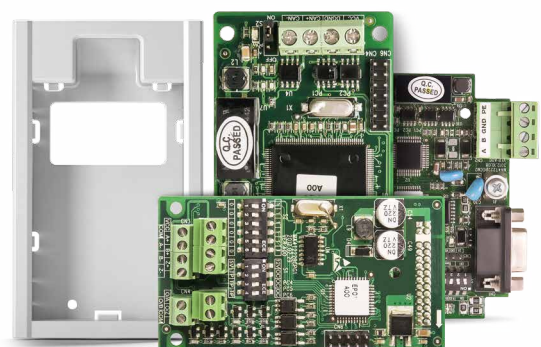
EPC-CM1	
EPC-CM2	
EPC-CM3	

I/O options

EPC-TM1	Analog & Digital
EPC-TM2	PT100 & I/O
EPC-VD1	Voltage
EPC-VD2	Bus voltage detection & for optimized flying start
EPC-IM1	Analog for injection
EPC-IM2	Current analog
EPC-RT1	Real-time clock

Others

KBU-DZ1	Base for keypad
APP for PC	FREE Gtake Monitoring
APP for PC	FREE Firmware Update Tool



MODEL

4T7.5G/11LB



- B: With built-in braking chopper
- L: Light duty G: Heavy duty
- T: Tri-phase S: Single phase
- 2: 200V level 4: 400V level
- 5: 460V level 6: 690V level

Model		Power Rating (kW)	Rated Output Current (Amps)	Rated Input Current (Amps) ¹⁴	Applicable Motor (kW)	Model		Power Rating (kW)	Rated Output Current (Amps)	Rated Input Current (Amps) ¹⁴	Applicable Motor (kW)
4T0.75G/1.5LB	H	0.75	2.5	3.5	0.75	4T30G/37L(B) ¹⁵	H	30	60	65	30
	L	1.5	3.8	5.0	1.5		L	37	72	76	37
4T1.5G/2.2LB	H	1.5	3.8	5.0	1.5	4T37G/45L(B) ¹⁵	H	37	75	80	37
	L	2.2	4.8	5.5	2.2		L	45	91	95	45
4T2.2G/3.7LB	H	2.2	5.5	6.0	2.2	4T45G/55L(B) ¹⁵	H	45	91	83	45
	L	3.7	8.0	10	3.7		L	55	112	102	55
4T3.7G/5.5LB	H	3.7	9.0	10.5	3.7	4T55G/75L(B) ¹⁵	H	55	112	102	55
	L	5.5	11	14	5.5		L	75	142	128	75
4T5.5G/7.5LB	H	5.5	13	14.6	5.5	4T75G/90L(B) ¹⁵	H	75	150	157	75
	L	7.5	16	20	7.5		L	90	176	180	90
4T7.5G/11LB	H	7.5	17	20.5	7.5	4T90G/110L	H	90	176	160	90
	L	11	21	25	11		L	110	210	192	110
4T11G/15LB	H	11	24	29	11	4T110G/132L	H	110	210	192	110
	L	15	30	35	15		L	132	250	230	132
4T15G/18.5LB	H	15	30	35	15	4T132G/160L	H	132	250	232	132
	L	18.5	36	40	18.5		L	160	304	280	160
4T18.5G/22LB	H	18.5	39	44	18.5	4T160G/185L	H	160	310	285	160
	L	22	45	50	22		L	185	350	326	185
4T22G/30LB	H	22	45	50	22	4T185G/200L	H	185	350	326	185
	L	30	56	60	30		L	200	380	354	200
						4T200G/220L	H	200	380	354	200
							L	220	430	403	220

MODEL

Model		Power Rating (kW)	Rated Output Current (Amps)	Rated Input Current (Amps) ^{*4}	Applicable Motor (kW)	Model		Power Rating (kW)	Rated Output Current (Amps)	Rated Input Current (Amps) ^{*4}	Applicable Motor (kW)
4T220G/250L	H	220	430	403	220	4T355G/400L	H	355	650	624	355
	L	250	470	441	250		L	400	725	699	400
4T250G/280L	H	250	470	441	250	4T400G/450L	H	400	725	699	400
	L	280	520	489	280		L	450	820	790	450
4T280G/315L	H	280	520	489	280	4T450G/500L	H	450	820	790	450
	L	315	590	571	315		L	500	860	835	500
4T315G/355L	H	315	590	571	315	4T500G		500	860	835	500
	L	355	650	624	355	4T560G		560	950	920	560
						4T630G		630	1100	1050	630

L Light duty **H** Heavy duty

*4: The green numbers say the rated input currents configured DC reactors;

*5: (B) means break chopper is optionally inbuilt.



The rated power bigger than 630kW are customizable. Contact G5AKE for more.

DIMENSIONS

Unit, mm

4T0.75G/1.5LB~3.7G/5.5LB

WxHxD - 93x190x152

Mounting dimensions 70x180x152



4T5.5G/7.5LB~7.5G/11LB

WxHxD - 120x245x169

Mounting dimensions 80x233x169

4T11G/15LB

WxHxD - 145x280x179

Mounting dimensions 105x268x179

4T15G/18.5LB~22G/30LB

WxHxD - 190x365x187

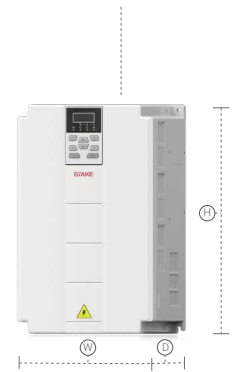
Mounting dimensions 120x353x187



4T30G/37L(B)~37G/45L(B)

WxHxD - 250x400x235

Mounting dimensions 230x380x235



4T45G/55L(B)~55G/75L(B)

WxHxD - 300x545x255

Mounting dimensions 245x523x255



4T75G/90L(B)

WxHxD - 385x670x261

Mounting dimensions 260x640x261



4T90G/110L~110G/132L

WxHxD - 395x785x291

Mounting dimensions 260x750x291

4T132G/160L~160G/185L

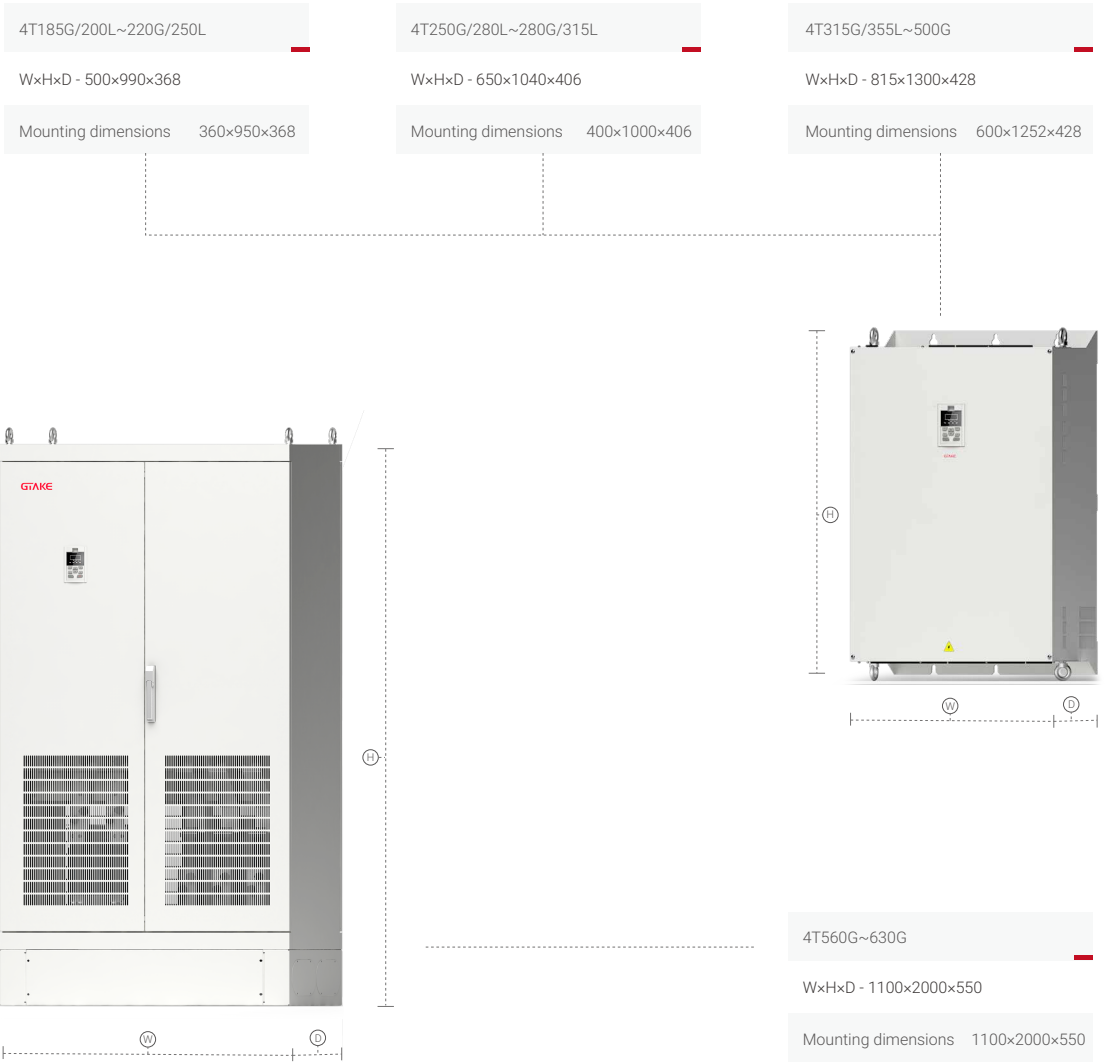
WxHxD - 440x900x356

Mounting dimensions 300x865x356



DIMENSIONS

Unit, mm

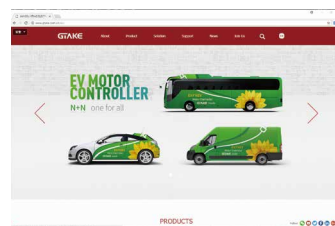


MORE

Further information is procurable through following sources:



PRODUCT CATALOG



OFFICIAL WEBSITE



@GtakeElectric

@Gtake

SOCIAL MEDIA



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