



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 × 380-480 V 0.75 - 630 kW

Versatile & Multifunctional

Promoted V/Hz

SVC1

SVC2

Multi-step Freq.

ModBus, CAN, CANopen & ProfiBus

Detachable Control Panel

I/O options

Frequency Binding

Parameter Copy & Backup

Flying Start

Precise autotune

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

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Start Torque @0.25Hz
180%

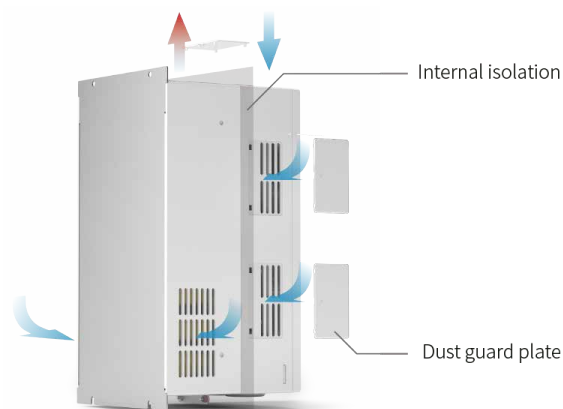
Overload Capability
200%

Speed accuracy $\pm$
0.2%

Ambient Temp $^{\circ}\text{C}$
50

Speed Regulation
1:200

Torque Response ms
10



TERMINAL

Analog Input	$\times 2$ [3] ^{*1}	Analog Output	$\times 1$ [3]	Relay Output	$\times 1$ [3]
Digital Input	$\times 6$ [8]	Digital Output ^{*2}	$\times 2$	Communication Port ^{*3}	$\times 1$
Option Board Interface	$\times 1$	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

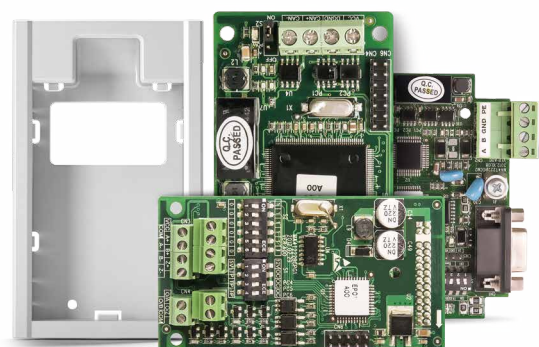
EPC-CM1	CAN
EPC-CM2	CANopen
EPC-CM3	PROFIBUS

I/O options

EPC-TM1	Analog & Digital
EPC-TM2	PT100 & Relay
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

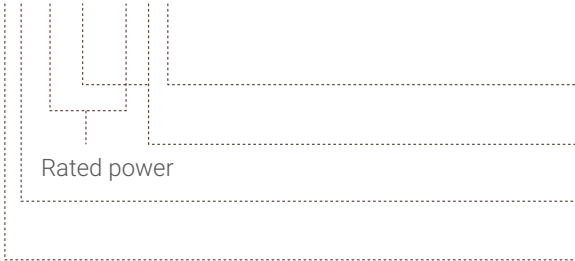
Others

KBU-DZ2	Base for keypad
APP for PC	FREE Gtack 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 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/D/H)	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/D/H)	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/55LD(H)	H	45	91	95	45
	L	3.7	8.0	10	3.7		L	55	112	118	55
4T3.7G/5.5LB	H	3.7	9.0	10.5	3.7	4T55G/75LD(H)	H	55	112	118	55
	L	5.5	11	14	5.5		L	75	142	148	75
4T5.5G/7.5LB	H	5.5	13	14.6	5.5	4T75G/90L(B)	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

DIMENSIONS

Unit, mm

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

W×H×D - 93×190×152

Mounting dimensions 70×180×152



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

W×H×D - 120×245×169

Mounting dimensions 80×233×169

4T11G/15LB

W×H×D - 145×280×179

Mounting dimensions 105×268×179

4T15G/18.5LB~22G/30LB

W×H×D - 190×365×187

Mounting dimensions 120×353×187



4T45G/55LD(H)~55G/75LD(H)

W×H×D - 300×545×255

Mounting dimensions 245×523×255



4T75G/90L(B)

W×H×D - 385×670×261

Mounting dimensions 260×640×261



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

W×H×D - 250×400×235

Mounting dimensions 230×380×235



4T90G/110L~110G/132L

W×H×D - 395×785×291

Mounting dimensions 260×750×291

4T132G/160L~160G/185L

W×H×D - 440×900×356

Mounting dimensions 300×865×356



MODEL

Model		Power Rating (kW)	Rated Output Current (Amps)	Rated Input Current (Amps) ^{*3}	Applicable Motor (kW)	Model		Power Rating (kW)	Rated Output Current (Amps)	Rated Input Current (Amps) ^{*3}	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

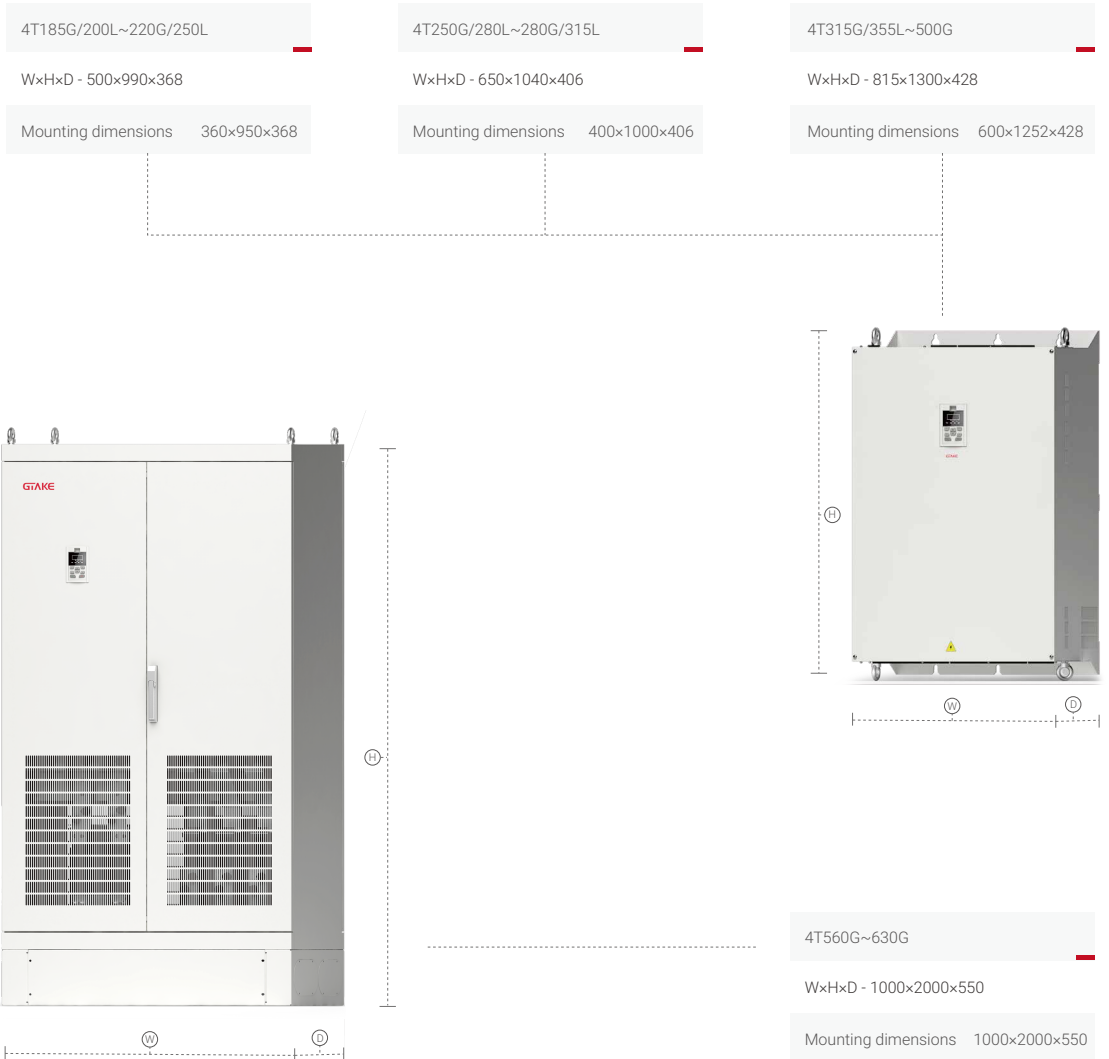
*4: The green numbers say the rated input currents configured DC reactors;



The rated power bigger than 630kW are customizable. Contact G7AKE for more.

DIMENSIONS

Unit, mm

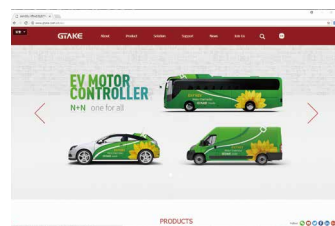


MORE

Further information is procurable through following sources:



PRODUCT CATALOG



OFFICIAL WEBSITE



SOCIAL MEDIA

