

Oxin Drive

ABO620

General Purpose AC Drives

The ABO620 series are the drives that cover general purpose applications when they are requiring V/Hz and speed sensor-less vector control.



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

Start Torque @0.25Hz
180%

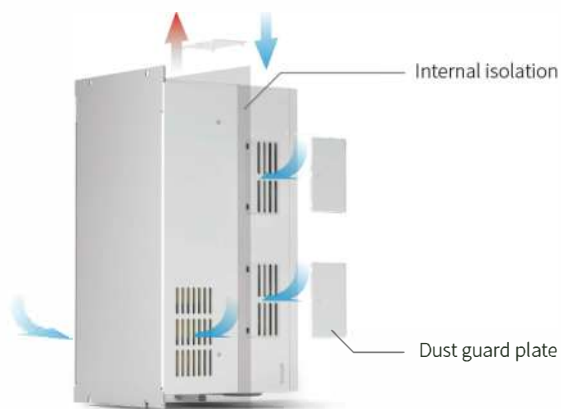
Overload Capability
200%

Speed accuracy \pm
0.2%

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

Speed Regulation
1:200

Torque Response ms
10



TERMINAL

Analog Input **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 **CAN**
EPC-CM2 **CANopen**
EPC-CM3 **PROFINET**
IBUS

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 Base for keypad
APP for PC **FREE** OXIN DRIVE Monitoring
APP for PC **FREE** Firmware Update Tool

MODEL

4T7.5G/11LB

Rated power

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) ^{2,4}	Applicable Motor (kW)	Model	Power Rating (kW)	Rated Output Current (Amps)	Rated Input Current (Amps) ^{2,4}	Applicable Motor (kW)
4T0.75G/1.5LB	H	0.75	2.5	3.5	4T30G/37L(B/D/H)	H	30	60	65
	L	1.5	3.8	5.0		L	37	72	76
4T1.5G/2.2LB	H	1.5	3.8	5.0	4T37G/45L(B/D/H)	H	37	75	80
	L	2.2	4.8	5.5		L	45	91	95
4T2.2G/3.7LB	H	2.2	5.5	6.0	4T45G/55LD(H)	H	45	91	95
	L	3.7	8.0	10		L	55	112	118
4T3.7G/5.5LB	H	3.7	9.0	10.5	4T55G/75LD(H)	H	55	112	118
	L	5.5	11	14		L	75	142	148
4T5.5G/7.5LB	H	5.5	13	14.6	4T75G/90L(B)	H	75	150	157
	L	7.5	16	20		L	90	176	180
4T7.5G/11LB	H	7.5	17	20.5	4T90G/110L	H	90	176	160
	L	11	21	25		L	110	210	192
4T11G/15LB	H	11	24	29	4T110G/132L	H	110	210	192
	L	15	30	35		L	132	250	230
4T15G/18.5LB	H	15	30	35	4T132G/160L	H	132	250	232
	L	18.5	36	40		L	160	304	280
4T18.5G/22LB	H	18.5	39	44	4T160G/185L	H	160	310	285
	L	22	45	50		L	185	350	326
4T22G/30LB	H	22	45	50	4T185G/200L	H	185	350	326
	L	30	56	60		L	200	380	354
					4T200G/220L	H	200	380	354
						L	220	430	403

DIMENSIONS

Unit, mm

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

W×H×D - 93×190×152

Mounting dimensions 70×180×152



4T11G/15L

W×H×D - 145×280×179

Mounting dimensions 105×268×179



4T15G/18.5L~22G/30L

W×H×D - 190×365×187

Mounting dimensions 120×353×187

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

W×H×D - 270×510×270

Mounting dimensions 230×380×235



4T45G/55LD(H)~55G/75LD(H)~4T75G/90L

W×H×D - 310×725×295

Mounting dimensions 245×523×255



4T90G/110L~132G/160L

W×H×D - 370×945×375

Mounting dimensions 260×640×261



4T160G/185L

W×H×D ~ 435×1200×375

Mounting dimensions 300×865×356

4T185G/200L
W×H×D - 435×1200×375

Mounting dimensions 300×865×356

4T200G/220L
W×H×D 440×1210×345

Mounting dimensions 300×865×356



4T315G/355L

W×H×D - 690×1250×345

4T355G/400L~ 400G/450L

W×H×D - 935×1250×345



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 **OXIN DRIVE** for more.

DIMENSIONS

Unit, mm

4T185G/200L~220G/250L

W×H×D - 500×990×368

Mounting dimensions 360×950×368

4T250G/280L~280G/315L

W×H×D - 650×1040×406

Mounting dimensions 400×1000×406

4T315G/355L~500G

W×H×D - 815×1300×428

Mounting dimensions 600×1252×428



4T560G~630G

W×H×D - 1000×2000×550

Mounting dimensions 1000×2000×550