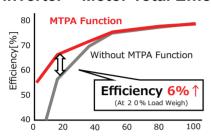
Next Generation Yaskawa New Series Drive

INCREASED PRODUCTIVITY. ENERGY SAVING. COST REDUCTION. ENVIRONMENTAL FRIENDLINESS

(Further Energy Savings)

The energy-saving effect improves by the new function that controls to minimize the power consumption of the motor.

Inverter + Motor Total Efficiency



Adjustable to any motor

With new function EZ vector control, all motors can be driven by an auto tuning unnecessary.



Global Standards

Meets major standards of the world and regions







ClassNIK

High Security & Safety

STO from two-terminal input(safety shut-off torque) are standard equipped. Fulfills: IEC/EN61508 SIL3 and ISO13849-1 Cat.3 PLe high degree of safety system can be built without any additional equipment such as an electromagnetic contactor system saving wiring and space

Total Cost Reduction



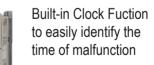
EASY

Reduced Set-up or **Down Time**

Easy backup, restore and replication of parameters on keypad



MicroSD for data logging storage



Change Parameters ·A1-02=5

·d1-01=20

·L1-01=2

LED status ring indicates operation



keypads option from portable

Parameter backup using cloud

conditions



SUSTAINABLE

Standard Specifications

200V

Catalog Code: GA70A2□			2004	2006	2008	2010	2012	2018	2021	2030	2042	2056	2070	2082	2110	2138	2169	2211	2257	2313	2360	2415
Max. Application HD		0.55	0.75	1.1	1.5	2.2	3	3.7	5.5	7.5	11	15	18.5	22	30	37	45	55	75	90	110	
Motor Capacity (kW) * ND		0.75	1.1	1.5	2.2	3	3.7	5.5	7.5	11	15	18.5	22	30	37	45	55	75	90	110	-	
	Rated Output	HD	3.2	5	6.9	8	11	14	17.5	25	33	47	60	75	88	115	145	180	215	283	346	415
	Current (A)	ND	3.5	6	8	9.6		17.5		30	42	56	70	82	110	138	169	211	257	313	360	-
Output	Overload Toleran		 HD Rating: 150% of output current for 60 s, ND Rating: 110% of output current for 60 s Note: Derating may be required for applications that start and stop frequently. 																			
	Carrier Frequency	(De	Derating the output current enables a maximum of 15 kHz to be set. (Derating the output current is not neccessary for an ND rating of 2 kHz and an HD rating up to 8 kHz)												5 kHz Note: Can be selected between 1 kHz to 10 kHz by setting C6-02							
	Max. Output Volt (V)		Three-phase 200V~240V Note: The maximum output voltage is proportional to the input voltage.																			
	Max. Output Frequency (Hz)		590Hz The frequencies that can be set vary depending on the control mode used.																			
Harmonic Suppression	DC Reactor		Option										Built-in									
Braking Function	Braking Transisto	Built-in											Option									
EMC Filter	EMC Filter IEC61800-3,C2/0	23	Built-in (Factory Option)												,							
Power	Rated Voltage/ Rated Frequency		\cdot Three-phase AC power supply : 200V \sim 240V 50/60 Hz \cdot DC power supply : 270V \sim 340V																			
	Allowable Voltage Fluctuation	е	-15%~+10%																			
	Allowable Freque Fluctuation	ncy		±5%																		

^{*:} The motor capacity(kW) refers to a Yaskawa 6-pole, 220V motor. The rated output current of the drive output amps should be equal to or greater than the motor rated current.

400V

Catalog Code	e: GA70A4□	1.	4002 4	004 400	5 4007	4009	4012	4018	4023	4031	4038	4044	4060	4075	4089	4103	
Max Application Motor Capacity (kW) * HD			0.55	.1 1.	5 2.2	3	4	5.5	7.5	11	15	18.5	22	30	37	45	
мах Арріісац	ND			.5 2.	2 3	4	5.5	7.5	11	15	18.5	22	30	37	45	55	
	Rated Output Current (A)	HD		3.4 4.5		7.2	9.2	14.8	18	24	31	39	45	60	75	91	
	rated output current (71)	ND		1.1 5.		8.9	11.9	17.5	23.4	31	38	44	59.6	74.9	89.2	103	
	Overload Tolerance		 HD Rating: 150% of output current for 60 s, ND Rating: of output current 110% for 60 s Note: Derating may be required for applications that start and stop frequently. 														
Output	Carrier Frequency		Derating the output current enables a maximum of 15 kHz to be set. (Derating the output current is not neccessary for an ND rating of 2 kHz and an HD rating up to 8 kHz)														
	Max. Output Voltage (V)		Three-phase $380V{\sim}480V$ Note: The maximum output voltage is proportional to the input voltage.														
	Max. Output Frequency (Hz	2)		Th	e frequer	ncies th	at can b	oe set v	590Hz ary dep	pending	on the	contro	l mode	used.			
Harmonic Suppression	DC Reactor						option							Buil	t-in		
Braking Function	Braking Transistor		Built-in														
EMC Filter	EMC Filter IEC61800-3,C2/C	C3	Built-in (Factory Option)														
	Rated Voltage/Rated Freque	ency		· Three-p	hase AC	power s	supply 3	380V~₄	180V 5	0/60 Hz	z · DC	power	supply	540V~	680V		
Power	Allowable Voltage Fluctuatio	n						-15	%~+1	0%							
	Allowable Frequency Fluctua	ation							±5%								
Model	Model			4168	420)8	4250	429	6 4	4371	438	9 6	4453	456	8 '	4675	
May Applicati	ion Motor Capacity (kW) *	HD	55	75	90)	110	132		160	200		220	250		315	
мах Арріїсац	ion Motor Capacity (kw)	ND	75	90	11	0	132	160		200	220		250	315		355	
	Rated Output Current (A)	HD	112	150	18	_	216	260		304	371		414	453		605	
		ND	140	168	20	-	250	296		371	389		453	568		675	
Output	Overload Tolerance		· HD Rating: 150% of output current for 60s, ND Rating: 110% of output current for 60s Note: Derating may be required for applications that start and stop frequently.														
				Note	: Derating	g may b	e requi	red for	applica	tions tr		. and St	ор пец	uentiy.			
Output	Carrier Frequency	[C	Derating the courrent is not	Note	: Derating enables a ma r an ND rating	g may b	0 kHz to be	set. (Dera	ting the ou		2 kHz	n be select	ed betweer	,	i kHz		
Output	Carrier Frequency Max. Output Voltage (V)	C	Derating the o	Note	: Derating	yimum of 1 of 2 kHz a	0 kHz to be nd an HD ra	set. (Dera	ting the ou 5 kHz) ase 38	tput 0V~48	2 kHz Note: Car by setting	n be select g C6-02	ed betweer	1 kHz to 5	i kHz		
Output	, ,	C	Derating the ocurrent is not	Note	enables a ma	g may b ximum of 1 of 2 kHz a e maxir	0 kHz to be nd an HD ra Th num ou	set. (Dera ating up to nree-ph tput vo	ting the ou 5 kHz) ase 38 Itage is	oV~48 propor	2 kHz Note: Ca by setting OV tional t	n be select g C6-02 to the in	ed betweer	thage.	i kHz		
Harmonic Suppression	Max. Output Voltage (V)	C	Derating the c	Note	enables a ma r an ND rating	g may b ximum of 1 of 2 kHz a e maxir	0 kHz to be nd an HD ra Th num ou	set. (Dera ating up to nree-ph tput vo	ting the ou 5 kHz) ase 38 Itage is	0V~48 propor	2 kHz Note: Ca by setting OV tional t	n be select g C6-02 to the in	ed betweer	thage.	i kHz		
Harmonic	Max. Output Voltage (V) Max. Output Frequency (Hz	C	current is not	Note	enables a ma r an ND rating	g may b ximum of 1 of 2 kHz a e maxir	0 kHz to be nd an HD ra Th num ou	set. (Dera ating up to nree-ph tput vo	ase 38 ltage is 590Hz	0V~48 proporenting	2 kHz Note: Ca by setting OV tional t	n be select g C6-02 to the in	ed betweer	thage.	i kHz		
Harmonic Suppression Braking	Max. Output Voltage (V) Max. Output Frequency (Hz DC Reactor	·)	current is not	Note output current neccessary fo	enables a ma r an ND rating	g may b ximum of 1 of 2 kHz a e maxir	0 kHz to be nd an HD ra Th num ou	set. (Dera ating up to nree-ph tput vo e set va	ase 38 ltage is 590Hz ary dep Built-ir	OV~48 propor ending	2 kHz Note: Cal by setting OV tional t	n be select g C6-02 to the in	ed betweer	thage.	kHz		
Harmonic Suppression Braking Function	Max. Output Voltage (V) Max. Output Frequency (Hz DC Reactor Braking Transistor EMC Filter IEC61800-3,C2/C	2)	Bu	Note Output current neccessary for Th	enables a ma r an ND rating	g may b ximum of 1 of 2 kHz a e maxir cies tha	0 kHz to be nd an HD re Th num ou	set. (Dera sting up to nree-ph tput vo e set vo Built-	ing the out 5 kHz) ase 38 ltage is 590Hz ary dep Built-ir	ending Op	2 kHz Note: Cal by setting OV -tional t on the	n be select g C6-02 to the ir control	ed betweer	ltage.			
Harmonic Suppression Braking Function	Max. Output Voltage (V) Max. Output Frequency (Hz DC Reactor Braking Transistor EMC Filter IEC61800-3,C2/C Ratewd Voltage/Rated Frequency	c)	Bu	Note Output current neccessary for Th	enables a mar an ND rating Note: The	g may b ximum of 1 of 2 kHz a e maxir cies tha	0 kHz to be nd an HD re Th num ou	set. (Derating up to ornree-ph tput vo e set va Built-8880V~	ing the out 5 kHz) ase 38 ltage is 590Hz ary dep Built-ir	ov~488 proporenting Op ctory O 50/60H	2 kHz Note: Cal by setting OV -tional t on the	n be select g C6-02 to the ir control	ed betweer	ltage.			
Harmonic Suppression Braking Function EMC Filter	Max. Output Voltage (V) Max. Output Frequency (Hz DC Reactor Braking Transistor EMC Filter IEC61800-3,C2/C	e)	Bu	Note Output current neccessary for Th	enables a mar an ND rating Note: The	g may b ximum of 1 of 2 kHz a e maxir cies tha	0 kHz to be nd an HD re Th num ou	set. (Derating up to ornree-ph tput vo e set va Built-8880V~	ing the out 5 kHz) ase 38 ltage is 590Hz ary dep Built-ir	ov~488 proporenting Op ctory O 50/60H	2 kHz Note: Cal by setting OV -tional t on the	n be select g C6-02 to the ir control	ed betweer	ltage.			

