

Constant pressure

Constant current

Constant speed

Constant Temperature

Wide power range
500w~500kw

Wide voltagerange
110V~660V

Synchronous
asynchronous
dual-drive

Zero water hammer

Zero fatigue

Wireless cascade
operation (Optional)

Bluetooth auto
online (Optional)

WiFi household
online (Optional)

4G remote monitor (Optional)

Built-in no
water protector

Power off memory

Intelligent sleep

16pumps
cascade operation

Portable installation

Simple pressure
setting

REMOTE INTELLIGENT CONNECTION

1.Download APP

2.Scan the product Smartlink QR code,or tap "+" in the upper right corner to add a device

3.APP operation interface



Remote start/stop control

Water pump operation data

Item		Specification
Basic functions	Control system	Current Vector VFD---Performance and functions are specially for water pump
	Drive performance	High efficiency drive induction motor and synchronous motor
	Max. frequency	Vector control: 0~300Hz V/F control: 0~3200Hz
	Carrier frequency	0.5kHz~15kHz
		Auto regulate the carrier frequency for different load
	Input frequency	Digital setting: 0.01Hz
		Analog setting: Max. Frequency x0.025%
	Control mode	SVC FVC V/F
	Start torque	0.5Hz/110%
	Speed control range	1:100(SVC) 1:1000(FVC)
	Speed accuracy	0.5%(SVC) 0.02%(FVC)
	Pressure accuracy	0.01Mpa
	Torque control accuracy	5%(FVC)
	Accel/decel curve	Lines or S curve accel/decel way
		4 independent setting 0.0~6500.0s
	Jog control	Jog frequency range: 0.00Hz~50.00Hz
		Jog accel/decel time: 0.0s~6500.0s
	Auto voltage regulate	Output voltage keep constant
	Over voltage/current ontrol	Voltage & current auto limit to avoid over current/voltage trip
	Quick current limit	Limit the over current trip to protect VFD normal running
Running	Order given	Keypad setting, control terminal setting, communication setting (4G/WIFI setting is optional)
	Frequency given	keypad setting, analog voltage setting, analog current setting,communication setting (4G/WIFI setting is optional)
	Pressure given	Keypad setting, control terminal setting, communication setting (4G/WIFI setting is optional)
	Input/output terminal	4 digital input terminals; 2 relays output terminals
		2 analog 4-20mA input terminals
Display and keypad operation	LED display	Parameter display
	Button lock& function choose	Parameters lock. To define parameter ranges to avoid wrong operation
	Protect functions	Input/output phase failure protection, Over current protection;Over voltage protection;Under voltage protection; Overheat protection; overload protection,etc
Environment	Installation location	Indoor in which there is no direct sunlight, dust, erosive gas, combustible gas, oil smoke, water vapor, dripping, salt, etc.
	Altitude	1000m or lower
	Ambient temperature	-10 ~+40 (If it is 40 -50,please derating using)
	Ambient humidity	Below 90% RH(non-condensing)
	Vibration	<5.9m/s²(0.6g)
	Storage temperature	-20 ~+60

Nameplate and model description

MODEL: AR100 - F0300 L 43
INPUT: 3PH 380V 50/60Hz
OUTPUT: 3PH 0~380V 0~400Hz
POWER: 30.0KW 58.0A

S/N
42422515003

AR 100 - F0030 L 43

63:3HP input AC660V 3PH output 660V
43:3HP input AC400V 3PH output 400V
33:3HP input AC220V 3PH output 220V
23:1HP input AC220V 3PH output 220V
21:1HP input AC220V 1PH output 220V



AR100:Cabinet type professional pump variable frequency controller

Mark	Power
0007	0.75kw
0011	1.1kw
0015	1.5kw
0022	2.2kw
0030	3.0kw
0040	4.0kw
0055	5.5kw
0075	7.5kw
0110	11.0kw
0150	15.0kw
0185	18.5kw
0220	22.0kw
0300	30.0kw
0370	37.0kw
0450	45.0kw
0550	55.0kw
0750	75.0kw
0930	93.0kw
1100	110.0kw
1320	132.0kw
1600	160.0kw
1850	185.0kw
2000	200.0kw
2200	220.0kw
2500	250.0kw
2800	280.0kw
3150	315.0kw
3500	350.0kw
4000	400.0kw

Inverter model	Adapted motor		Rated output current A	Shape DIM
	kw	HP		
1PH single-phase input:AC220V,50/60HZ				
AR 100-F0007 L 23	0.75	1	4	R103
AR 100-F0015 L 23	1.5	2	7	R103
AR 100-F0022 L 23	2.2	3	10	R105
3PH three-phase input:AC220V,50/60HZ				
AR 100-F0005 L 33	0.5	0.5	2.5	R103
AR 100-F0007 L 33	0.75	1	4	R103
AR 100-F0015 L 33	1.5	2	7	R103
AR 100-F0022 L 33	2.2	3	10	R105
AR 100-F0030 L 33	3	4	13.5	R105
AR 100-F0040 L 33	4	5.5	16	R108
AR 100-F0055 L 33	5.5	7.5	25	R108
AR 100-F0075 L 33	7.5	10	32	R108
AR 100-F0110 L 33	11	15	45	R109
AR 100-F0150 L 33	15	20	60	R109
AR 100-F0185 L 33	18.5	25	75	R110
AR 100-F0220 L 33	22	30	90	R110
AR 100-F0300 L 33	30	40	110	R503
AR 100-F0370 L 33	37	50	152	R503
AR 100-F0450 L 33	45	60	176	R505
AR 100-F0550 L 33	55	70	210	R505
3PH three-phase input:AC380V,50/60HZ				
AR 100-F0007 L 43	0.75	1	2.5	R103
AR 100-F0015 L 43	1.5	2	3.7	R103
AR 100-F0022 L 43	2.2	3	5.1	R103
AR 100-F0030 L 43	3	4	6.5	R103
AR 100-F0040 L 43	4	5	8.5	R105
AR 100-F0055 L 43	5.5	7.5	13	R105/R108
AR 100-F0075 L 43	7.5	10	16	R105/R108
AR 100-F0110 L 43	11	15	25	R108
AR 100-F0150 L 43	15	20	32	R109
AR 100-F0185 L 43	18.5	25	38	R109
AR 100-F0220 L 43	22	30	45	R109
AR 100-F0300 L 43	30	40	60	R110
AR 100-F0370 L 43	37	50	75	R110

Inverter model	Adapted motor		Rated output current A	Shape DIM
	kw	HP		
AR 100-F0450 L 43	45	60	90	R110/503
AR 100-F0550 L 43	55	70	110	R503
AR 100-F0750 L 43	75	100	150	R503
AR 100-F0930 L 43	93	125	170	R505
AR 100-F1100 L 43	110	150	210	R505
AR 100-F1320 L 43	132	175	250	R506
AR 100-F1600 L 43	160	210	300	R506
AR 100-F1850 L 43	187	245	340	R506
AR 100-F2000 L 43	200	260	380	R507
AR 100-F2200 L 43	220	300	415	R507
AR 100-F2500 L 43	250	350	470	R507
AR 100-F2800 L 43	280	370	520	R508
AR 100-F3150 L 43	315	500	600	R508
AR 100-F3550 L 43	355	420	650	R508
AR 100-F4000 L 43	400	530	725	R508
3PH three-phase input:AC 660V,50/60HZ				
AR 100-F0550 L 63	55	70	63	R503
AR 100-F0750 L 63	75	100	86	R503
AR 100-F0930 L 63	93	125	98	R503
AR 100-F1100 L 63	110	150	121	R505
AR 100-F1320 L 63	132	175	150	R505
AR 100-F1600 L 63	160	210	175	R505
AR 100-F1870 L 63	187	245	198	R506
AR 100-F2000 L 63	200	260	218	R506
AR 100-F2200 L 63	220	300	240	R506
AR 100-F2500 L 63	250	350	270	R507
AR 100-F2800 L 63	280	370	330	R507
AR 100-F3150 L 63	315	500	345	R507
AR 100-F3550 L 63	355	420	370	R508
AR 100-F4000 L 63	400	530	430	R508



SHAPE DIM: 103
105



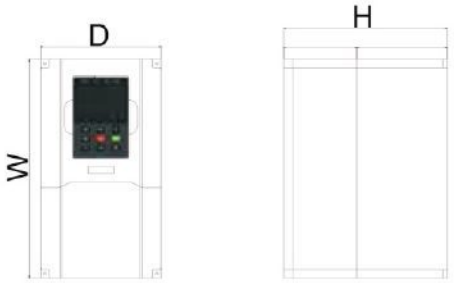
SHAPE DIM: R107
R108
R109
R110



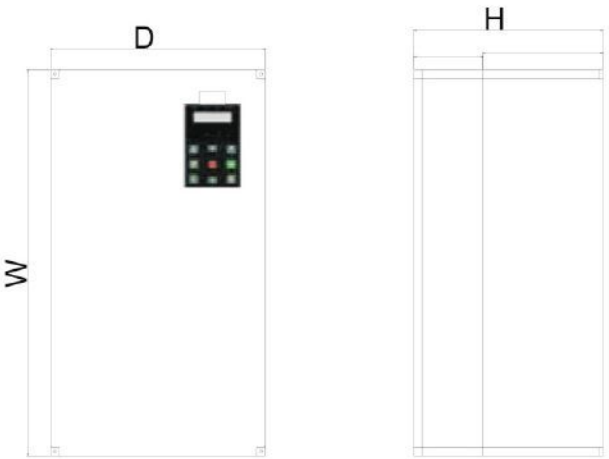
SHAPE DIM: R503
R505
R506



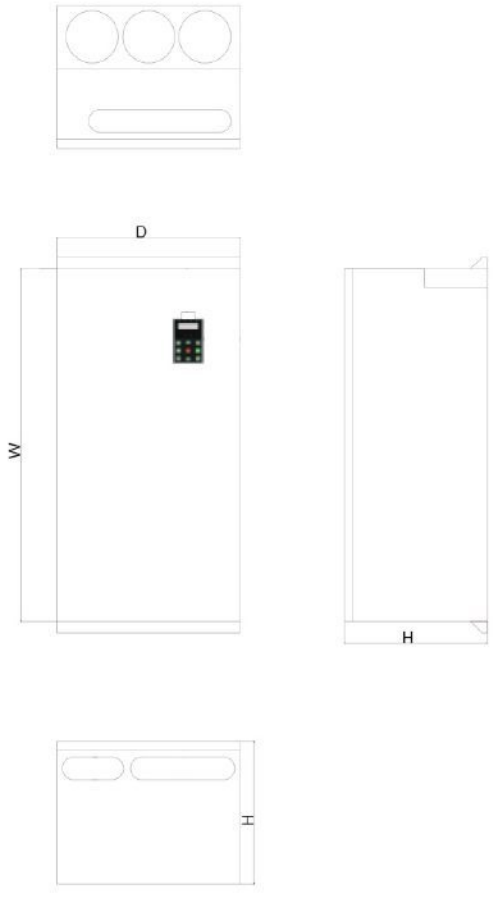
SHAPE DIM: R507
R508



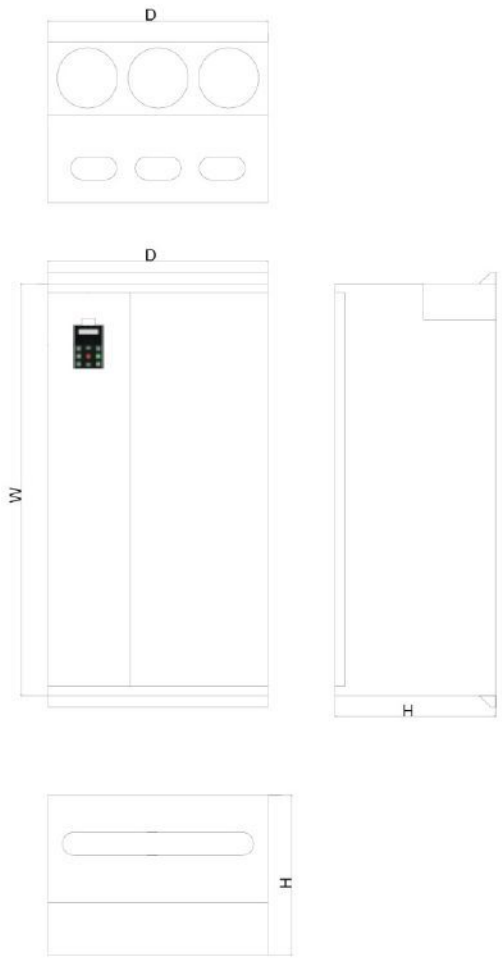
SHAPE DIM: 103
105



SHAPE DIM: R107
R108
R109
R110



SHAPE DIM: R503
R505
R506



SHAPE DIM: R507
R508

	W	D	H	H1	W1
R103	165	90	125	155	80
R105	185	100	135	175	90
R107	200	130	160	190	120
R108	250	140	170	240	130
R109	350	210	200	340	200
R110	450	250	220	440	205
R503	600	300	277	630	200
R505	647	370	287	670	275
R506	770	400	312	810	300
R507	900	480	350	875	360
R508	1060	650	350	1035	500