PRODUCT CATALOGUE

VARIABLE SPEED DRIVES (V2053 & V3053)

2020





KELi PUMPS



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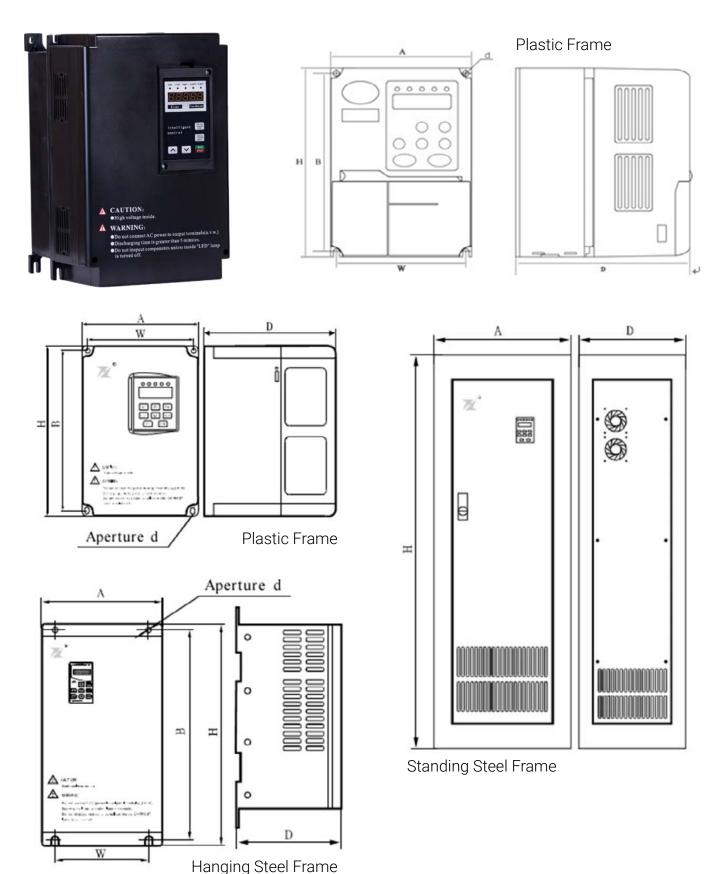
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VARIABLE SPEED DRIVE



FREQUENCY INVERTER

220V single phase/380V three phase/525 three phase



MODEL NAME BREAKDOWN



F2053-F0007 L 2 3

1: Single phase output 3: Three phase output
Input voltage: 2-220V 4-380V
Freq. range: L: 0 - 400Hz
Applicable motor: 0007 is 7.5kW, 0015 is 1.5kW
Series: F - intelligent water pump controller
Series Name

DIMENSIONS

SERIES	CASE	MODEL	POWER ADAPTER	SIZE (MM)					
SERIES	CASE	MODEL	(KW)	Α	В	Н	W	D	d
		F2/3053F0040L43	4.0					170	
		F2/3053F0040L53	4.0						
	302	F2/3053F0055L43	5.5	158	236	247	147		5.4
		F2/3053F0075L43	7.5						
		F2/3053F0075L53	7.5						
		F2/3053F0007L21	0.75						
		F2/3053F0015L21	1.5						
		F2/3053F0022L21	2.2					138.8	
	305	F2/3053F0007L43	0.75	110.2	178	187.6	105		4.2
	303	F2/3053F0015L43	1.5	110.2	170	170 107.0	105		4.2
		F2/3053F0022L43 2.2							
		F2/3053F0030L43	3						
		F2/3053F0022L53	2.2						
F2053		F2/3053F0110L43	11.0						
		F2/3053F0150L43	15.0						
	317	F2/3053F0185L43 18.5 218	218	304	320	196	203	6.5	
		F2/3053F0110L53	11.0						
		F2/3053F0150L53	15.0						
		F2/3053F0220L43	22.0						
		F2/3053F0300L43	30.0						
		F2/3053F0370L43	37.0						
	030	F2/3053F0185L53	18.5	285	457	475	195	240	9
		F2/3053F0220L53	22.0						
		F2/3053F0300L53	30.0						
		F2/3053F0370L53	37.0						
	045	F2/3053F0450L43	45.0	315	620	645	230	310	11
	040	F2/3053F0450L53	45.0	313	020	040	250	310	' '

VARIABLE SPEED DRIVE



FREQUENCY INVERTER

SELECTION TABLE

VOLTAGE	MODEL	OUTPUT POWER (kW)	APPLICABLE MOTOR (HP)	RATED CURRENT (A)
(17.1. 17.1)	F0007L21	0.75	1	5.3
(1PH - 1PH) 220V	F0015L21	1.5	2	10
220 V	F0022L21	2.2	3	13
	F0007L43	0.75	1	2.5
	F0015L43	1.5	2	3.7
	F0022L43	2.2	3	5
	F0030L43	3	4	6.5
	F0040L43	4	5	9.5
	F0055L43	5.5	7	12.5
(3PH - 3PH)	F0075L43	7.5	10	17.5
380V	F0110L43	11	15	24
	F0150L43	15	20	33
	F0185L43	18.5	25	40
	F0220L43	22	30	46
	F0300L43	30	40	58
	F0370L43	37	50	80
	F0450L43	45	60	91
	F0022L53	2.2	3	3.6
	F0040L53	4	5	6.9
	F0075L53	7.5	10	14
	F0110L53	11	15	19.2
(3PH - 3PH)	F0150L53	15	20	26.4
525V	F0185L53	18.5	25	32
	F0220L53	22	30	36.8
	F0300L53	30	40	46.4
	F0370L53	37	50	64
	F0450L53	45	60	72.8



TECHNICAL SPECIFICATIONS

ITEM		SPECIFICATIONS
(Control Model	SPWM
	Input	220V: 220±15%; 380V: 380±15%; 525V: 525±15%
(Output Voltage	0~input voltage
5-Dig	it Display & Status	This shows frequency, current, speed, voltage, set pressure,
	Indicator light	current pressure, fault and so on
Comi	munication Control	RS-485
Oper	ating Temperature	-10~40°C
Ar	nbient Humidity	0-95% relative humidity (non-condensing)
	Vibration	<0.5G
	Range	0.10~400.0Hz
0	Setting Resolution	Digital: 0.1Hz; Analogue: 1% maximum frequency
ntr	Output Resolution	0.1Hz
lcy Cα	Keyboard Setting Mode	Set by up/down keys
Frequency Control	Analogue Setting Mode	External voltage 4-20mA, 2-10V
ш	Other Functions	Frequency limits, running frequency, frequency stop, three adjustable carrier frequencies can be set separately
	Overload	Electronic relay protection motor drive (for constant torque 150%/1min)
u	Low Voltage	220V: DC Voltage<200V; 380V: DC Voltage<350V; 525V: DC Voltage<472V
Protection Function	High Voltage	220V: DC Voltage>242V; 380V: DC Voltage>420V; 525V: DC Voltage >578V
ction F	Instant Stop and Restart	Restarted by frequency track after instantaneous stop
ote	Stall Prevention	Anti-stall during acceleration/deceleration run
Pr	Output short circuit	Electronic circuit protection
	Other functions	Fin over-heating protection, restriction of reverse running, direct start after power on, fault reset, parameter lock PID, one-drive-more, etc.

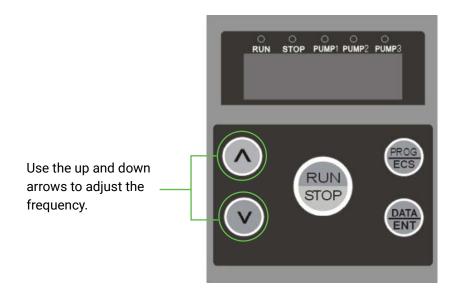
FUNCTIONING

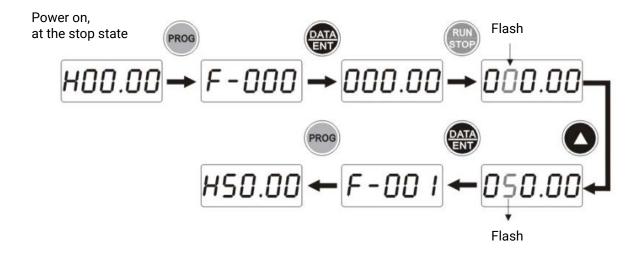




Press the RUN/STOP button

- If the RUN and STOP buttons flash at the same time, the VSD is in its stop state
- If the PUMP1 indicator is on and the RUN button flashes, this is automatic state
- If the STOP indicator flashes, the VSD is in maual mode





BASIC ADJUSTMENT



SINGLE PUMP

1. Confirm the rated parameter of the pump motor:

F002=rated frequency (factory setting=50HZ)
F003=rated voltage (factory setting=380V/220V/525V)
F007=rated current (factory setting=controller's rated current)

2. Confirm the maximum pressure range of the pressure transmitter:

```
10 bar - F006=10
16 bar - F006=16
25 bar - F006=25
```

3. Check the motor direction of rotation:

Press STOP/RUN to choose the Debug (manual) mode - the DEBUG indicator will be on. Press "V" or "\u00b1" or to change the pump's speed, and check and change the direction of rotation.

MULTI-PUMPS

1. Establishment of pump stations:

```
F011 = A B

B = current pump station/pump number (eg. Pump1 = 1)

A = total number of pump stations (eg. 2 pumps in system = 2)

Note: this must be set on each pump
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- 2. On the master controller, confirm the parameters of the pump and rated pressure range of pressure transmitter: F002/003/006/007 As section 1 for a single pump
- 3. Check each pump's direction of rotation:

Press the STOP button of the master controller to choose the DEBUG mode (manual) - the DEBUG indicator will be on

Press each pump's "v" or "\u00e1" buttons to change the pump's speed, and check and change the direction of rotation.

AUTO RUN

1. Single pumps run automatically.

Press STOP/RUN to choose the auto mode - AUTO indicator will be on.

2. Multi-pumps run automatically

Press the STOP button on the master controller to choose the auto mode - AUTO indicator will be on.

PARAMETERS & FUNCTIONS



F2053

CODE	FUNCTION	DETAILS	FACTORY SETTING
F-000	User password	0~65535	Consult supplier
F-001	Parameter limited	0~250	237
F-002	Base frequency	0~400HZ	50HZ
F-003	Base voltage	0~255/0~440V	220/380/525V
F-004	Frequency upper limit	0~400HZ	50HZ
F-005	Frequency lower limit	0~50HZ	25HZ
F-006	Corresponding pressure of sensors	0~200Bar	10/16/25Bar
F-007	Rated current of motor	1*(A)	according to the motor nameplate
F-008	Control function	Bit5 Bit4 Bit3 Bit2 Bit1 Bit1=0: auxiliary inverter 1: master inverter 2: master inverter of small pump Bit 2=1: start/stop key valid on panel Bit 3=0: low water level/pressure detected opened valid 1: low water level/pressure detected closed valid Bit 4 - running order 0: panel 1: external terminals 2: reserve 3: auto start when power is on Bit 5 - motor rotation 0: run as chosen 1: run in opposite direction	03011/13011 depending on direction of rotation. For PLC input & float level control: Bit 4 = 1
F-009	Version	1× (A)	N/A
F-010	Parameter lock	Valid:1/Invalid:0	0
F-011	Parameter reset	Pump station reset ABC C: current pump station B: total number of pump stations	0 (21 to reset to factory settings)
F-012	Acceleration time of PID	0.1~6500s	2s
F-013	Deceleration time of PID	0.1~6500s	2s
F-014	Rated max. head of pump	0~250m	as per performance curve
F-015	Rated max. flow of pump	0.1~500m³/h	as per performance curve



CODE	FUNCTION	DETAILS	FACTORY SETTING
F-016	Water supply mode	Bit5 Bit4 Bit3 Bit2 Bit1 Bit1 - PID feedback channel selection 0: AVI/AI(0~10V) set 1: AI/AI(4~20mA) set Bit 2 - sleep signal selection 0: select the internal sleep signal 1: select the external sleep signal 2: automatic Bit 3 - reserve Bit 4 - display decimal places 0: show a decimal 1: show two decimals Bit 5 - check the pump fault 0: valid 1: invalid	01121
F-017	PID digital given	% of system pressure to transducer rating	e.g. 6Bar (system) / 10Bar (transducer) = 60%
F-018	PID select given	0: set by operator panel 1: set by analogue	0
F-019	Accelerated time of starting	6500s	10s
F-020	Version	133.1/5283/6053	N/A
F-021	Integral time (I)	3600s	1s
F-022	Motor speed as zero flow	0~99%	5% (max. 10%)
F-023	Wake up level offset	0-100%	80 (increase responsiveness by increasing %)
F-024	Reserved		
F-025	Detecting time of sleep frequency	0~5s	1s
F-026	Reserved		
F-027	PID break detection level	0~100s	0.3s
F-028	PID break detection time	0~100s	10s
F-029	Total number of pumps in system	1: single pump 2-8: multi-pumps	1



CODE	FUNCTION	DETAILS	FACTORY SETTING
F-030	Changing time of master pump	0-60000min	1440min
F-031	Change over delay	0.1~250min	0min
F-032	Start frequency of auxiliary pump	0~100%	90%
F-033	Delay running of auxiliary pump	1~250s	5s
F-034	Exchange frequency of auxiliary pump	0~100%	70%
F-035	Delay stopping of auxiliary pump	1~250s	2s
F-036	Under pressure alarm time	0~6000s	0
F-037	Zero offset of sensor	0100%	Pressure transducer calibration
F-038	Detection time of lack of water	0~6500s	
F-039	Protection point of high pressure of discharge water	0~200%	80%
F-040	Protection point of low pressure of discharge water	0~200%	3%
F-041	Delay of protection and recovery of high pressure discharge water	0~6500s	60s
F-042	Delay of protection of low inlet water level	0~50s	0
F-043	Delay of recovery of low inlet water level	0~50s	0
F-044	Inspect interval time	0.1~65535min	0
F-045	Inspect working time	0.1~3600s	0
F-046	Inspect frequency	0.1~50HZ	10HZ
F-047	No load current protection	0~100%	90%
F-048	Relief pressure value	0.1~10Bar	1Bar



CODE	FUNCTION	DETAILS	FACTORY SETTING
F-050	Multi-function input FWD	00: invalid 01: RUN 04: stop	1
F-051	Multi-function input REV	05: FWD/REV 06: JOG 07: JOG forward 08: JOG reverse	0
F-052	Multi-function input S1	09: emergency stop 10: reset 11: reserve	01/31
F-053	Multi-function input S2	12: cooling or motor overheating 13: high water level 14: low water level 15: master inverter ordered	0
F-054	Multi-function input S3	18: compulsion awake 19: compulsion speed mode 20~28: reserve 29: low water level detection	29
F-055	Multi-function input S4		0
F-056	Multi-function output 1 (MO1)		1
F-057	Multi-function output 2 (MO2)		5
F-058	Multi-function output 3 (RA/RB/RC)		15
F-059	Multi-function output 4 (MA/MB/MC)		2

FAULT FINDING

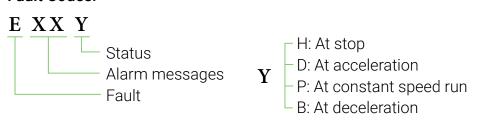




FAULT FINDING FOR CONTROLLER

Fault Display	Fault Contents & Description	Disposal methods
E04.D	Over-current during ramp-up	 Check whether the motor has got short circuit or partial short circuit and whether the insulation of
E04.P/E24P	Over-current at constant speed	output wire is good. Extend the ramp-up and Ramp-down time. The configuration of the inverter is not reasonable.
E04.B/E24B	Over-current at decel	The inverter's capacity should be increased. Check the motor for damage.
E02. H/D	Over-current at stop	• The inverter has failure. Please send it to the factory for repair.
E02. P/B E01.H/D	Over-voltage	 Extend the Ramp-down Time or add a braking resistor. Improve the mains supply voltage and check. whether there is any sudden change in the voltage.
E01.P/B E0H. H/D	Low voltage	 Check whether the input voltage is normal. Check whether there is sudden change in load. Check whether there is any phase missing.
E0H. P/B E07.D	Overheat of inverter	Check whether the fan is blocked.Check whether the ambient temperature is normal.
E07.P E07.B E08.D	Inverter overload 150% Per minute	 Check whether the capacity of the inverter is lower. Check whether there is any jamming in the mechanical load. The setting of V/F curve is bad. Set it again.
E08.P E08.B E0F	Motor overload 150% Per minute	 The equipped motor is too small. The motor is hot and the insulation becomes bad. Check whether there is any phase missing. The mechanical load is increased.
EOF	Parameter setting error	 Parameter reset
E.1P	Alarm of PID break detection	The standard of the feedback pressure. The set range from 0-100% When the feedback pressure is under the value of F027, even later than the time of F028, it will alarm as 'E1P'. Please check the water inlet, connection of pressure sensor, the rotation of pump motor, if there s some air in the pump. Note: If F027/028=0, the alarm will be invalid.
E.2.P	Alarm of lack of water	• Check the inlet if it is normal
E.H.P	Alarm of high pressure	 Check the feedback pressure if is higher than high pressure protect value
E.L.P	Alarm of low pressure	 Check the feedback pressure if is lower than low pressure protect value
E.L.B	Alarm of low water level/non-negative pressure	 Check the inlet if it is normal Check the motor rotation if it is normal
E5P	Alarm of under pressure	● Check the pipe pressure if it is normal
E3P	Low water level	• Check the inlet water level if it is normal
E11	Timelimit	Contact the factory or the distributor.

Fault Codes:





FAULT FINDING FOR WATER SUPPLY CONTROLLER

E.1.P: Warning for PID break detection

Parameter: F027 - The standard of the feedback pressure (set range: 0-100%).

When the feedback is under the value of F027 for longer than the time of F028, the E1P warning will appear. Please check the water inlet, connection of the pressure sensor, the rotation of the pump motor and if any air is present in the pump.

Note: If F028=0, the warning will be invalid.

E.2.P: Warning for lack of water

Parameter: F038 - the water detection delay.

When the external terminal detects the lack of water and the time of F038 elapses, the E29

warning will be released. The code for the external terminal is 31.

Note: If F038=0, the protection function is invalid.

E.H.P High pressure warning

E.L.P: Low pressure warning

Parameter: F039 - The protection point of high pressure (0-100%).

F040 - The protection point of low pressure (0-100%).

The delay of water out protection of high pressure and recovery.

When the pressure is higher than F039 and keeps within the time of F041, warning EHP will be released.

When the pressure is lower than F040 and keeps within the time of F041, warning ELP will be released.

The normal working pressure is between F039 and F040. If it exceeds the time of F041 the alarm will automatically be released.

Note: If F041=0, the protection of high/low pressure is invalid.

E.L.B: Warning of low water level/negative pressure

Parameter: F042 - The delay of low water level/negative pressure detection warning.

Parameter: F043 - The delay of low water level/negative pressure recovery

When the external terminal (S3) detects the low water level/negative pressure signal,

it delays the ELB warning for the time of F042.

When the external terminal (S3) detects the normal signal, it auto releases the alarm after delaying the time of F043.

Note: if F042=0, the alarm function is invalid.

PARAMETERS & FUNCTIONS



F3053

CODE	FUNCTION	DETAILS	FACTORY SETTING
F-000	User password	0~65535	Consult supplier
F-001	Parameter limited	0~250	237
F-002	Base frequency	0~400HZ	50HZ
F-003	Base voltage	0~255/0~440V	220/380/525V
F-004	Frequency upper limit	0~400HZ	50HZ
F-005	Frequency lower limit	0~50HZ	25HZ
F-006	Corresponding pressure of sensors	0~200Bar	10/16/25Bar
F-007	Rated current of motor	1*(A)	according to the motor nameplate
F-008	Control function	Bit5 Bit4 Bit3 Bit2 Bit1 Bit1=0: auxiliary inverter 1: master inverter 2: master inverter of small pump Bit 2=1: start/stop key valid on panel Bit 3=0: low water level/pressure detected opened valid 1: low water level/pressure detected closed valid Bit 4 - running order 0: panel 1: external terminals 2: reserve 3: auto start when power is on Bit 5 - motor rotation 0: run as chosen 1: run in opposite direction	03011/13011 depending on direction of rotation.
F-009			N/A
F-010			N/A
F-011	Parameter reset	Pump station reset ABC C: current pump station B: total number of pump stations	0
F-012	Acceleration time of PID	0.1~6500s	2s
F-013	Deceleration time of PID	0.1~6500s	2s
F-014	Rated max. head of pump	0~250m	as per performance curve
F-015			N/A



CODE	FUNCTION	DETAILS	FACTORY SETTING
F-016	Water supply mode	Bit5 Bit4 Bit3 Bit2 Bit1 Bit1 - PID feedback channel selection 0: AVI/AI(0~10V) set 1: AI/AI(4~20mA) set Bit 2 - sleep signal selection 0: select the internal sleep signal 1: select the external sleep signal 2: automatic Bit 3 - reserve Bit 4 - display decimal places 0: show a decimal 1: show two decimals Bit 5 - check the pump fault 0: valid 1: invalid	01121
F-017	PID digital given	% of system pressure to transducer rating	e.g. 6Bar (system) / 10Bar (transducer) = 60%
F-018	PID select given	0: set by operator panel 1: set by analogue	0
F-019	Accelerated time of starting	6500s	10s
F-020	Version	133.1/5283/6053	N/A
F-021	Integral time (I)	3600s	1s
F-022	Motor speed as zero flow	0~99%	5%
F-023	Wake up level offset	0-25m (below duty point)	20
F-024	Sleep frequency	0-50Hz	26Hz
F-025	Detecting time of sleep frequency	0~5s	1s
F-026	Reserved		
F-027	PID break detection level	0~100s	0.3s
F-028	PID break detection time	0~100s	10s
F-029	Total number of pumps in system	1: single pump 2-8: multi-pumps	1



CODE	FUNCTION	DETAILS	FACTORY SETTING
F-030			N/A
F-031			N/A
F-032			N/A
F-033			N/A
F-034			N/A
F-035			N/A
F-036	Under pressure alarm time	0~6000s	0
F-037	Zero offset of sensor	0100%	0
F-038	Detection time of lack of water	0~6500s	
F-039	Protection point of high pressure of discharge water	0~200%	80%
F-040	Protection point of low pressure of discharge water	0~200%	3%
F-041	Delay of protection and recovery of high pressure discharge water	0~6500s	60s
F-042	Delay of protection of low inlet water level	0~50s	0
F-043	Delay of recovery of low inlet water level	0~50s	0
F-044	Inspect interval time	0.1~65535min	0
F-045	Inspect working time	0.1~3600s	0
F-046	Inspect frequency	0.1~50HZ	10HZ
F-047	No load current protection	0~100%	90%
F-048	Relief pressure value	0.1~10Bar	1Bar



CODE	FUNCTION	DETAILS	FACTORY SETTING
F-050	Multi-function input FWD	00: invalid 01: RUN 04: stop	1
F-051	Multi-function input REV	07: JOG forward 08: JOG reverse 09: emergency stop 10: reset 11: reserve 12: cooling or motor overheating	0
F-052	Multi-function input S1		01/31
F-053	Multi-function input S2		0
F-054	Multi-function input S3	18: compulsion awake 19: compulsion speed mode 20~28: reserve 29: low water level detection	29
F-055	Multi-function input S4	(connect valid) 30: low water level detection (disconnect invalid) 31: force lack of water detection	0
F-056	Multi-function output 1 (MO1)	0: invalid 1: running 2: fault indication 5: relief pressure output	1
F-057	Multi-function output 2 (MO2)	10: alarm of inverter overload 11: alarm of motor overload 12: alarm of over torque 13: alarm of low voltage	5
F-058	Multi-function output 3 (RA/RB/RC)	14: reserve 15: faulty output 16: faulty output 20: 4~20mA break	15
F-059	Multi-function output 4 (MA/MB/MC)	25~27: reserve 28: alarm of PID lower limit 29: alarm of PID upper limit 30: cooling of fan work	2

FUALT FINDING



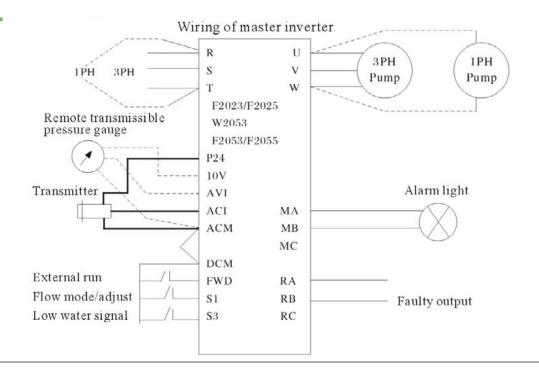
F3053

CODE	FUNCTION	CORRECTION	
E.2.P	External lack of water protection	Check that the water probe is functioning. Ensure that connection and terminal is normal. Check that parameter is correct.	
E.3.P	Internal lack of water protection (function begins at 1507)	Press the 'stop' button to reset	
EE.01P	System electric power is insufficient (function begins at 1507)	Check if power voltage is low Check if wire size is too small Check if power supply is insufficient	
EE1P	Spare pressure transmitter faulty (function begins at 1507)	Replace transmitter if it is broken. Corrrect wiring of transmitter if incorrect. Tighten loose wiring. Confirm that communication between pumps is normal.	
E.11	Working time limit	Time limit after running 1hour. Check with technician for details.	
E.H.B	Alarm of high water level (function begins at 1507)	Check if high water level detector is normal. Confirm that wiring and terminal are correct. Check if parameters are correct.	
E.L.B	Alarm of low water level	Check if low water level detector is normal. Confirm that wiring and terminal are correct. Check if parameters are correct. Confirm that inlet is fine. Check motor rotation.	
EE21	Detect no pressure transmitter signal (function begins at 1507)	Check transitter's wiring.	
E.L.P	Alarm of low pressure	Check if feedback pressure is lower than low pressure protection value.	
E.H.P	Alarm of high pressure	Check if feedback pressure is higher than high pressure protection value.	
E5P	Alarm of under pressure	Check if pipe pressure is normal.	
EEPn	Alarm of broken pump	Check the water pumps.	
E.1P	Alarm of PID break detection	The standard of the feedback pressure. The set range from 0-100% when the feedback pressure is under the value of F027, even later than the time of F028, it will show as 'E.1P'. Please check the water inlet, connection of pressure transmitter, the rotation of pump motor and if there is air in the pump. Note: If F027/028=0. the alarm will be invalid.	
E04.D/E24.D	Over-current during ramp-up	Check whether the motor has experienced a short circuit or partial short circuit	
E04.P/E24P	Over-current at constant speed	and whether the insulation of output wire is good. Extend the ramp-up and ramp-down time.	
E04.B/E24B	Over-current at deceleration	The configuration of the inverter is not reasonable. The inverter's capacity should be increased.	
E04.H	Over-current at stop	Check for motor damage. Alternatively, the inverter has failed. Please send it to the factory for repair.	
E02.H/D E02.P/B	Over voltage	Extend the ramp-down time or add a breaking resistor. Improve the main supply voltage and check whether there is any sudden change the voltage.	
E01.H/D E01.P/B	Low voltage	Check if the input voltage is normal. Check if there is sudden change in load. Check if there is a missing phase.	
E0H.H/D E0H.P/B	Overheating of inverter	Check if the fan is blocked. Check if the ambient temperature is normal.	
E07.D E07.P E07.B	Inverter overload 150% per minute	Check if the capacity of the controller is lower. Check if there is any jamming in the mechanical load. Reset the V/F curve.	
E08.D E08.P E08.B	Motor overload 150% per minute	The equipped motor is too small. The motor is hot and the insulation poor. Check if there is any missing phase. The mechanical load has increased.	
EOF	Parameter setting error		
E5P	Alarm of under pressure	Check if the pipe pressure is normal.	



F2053 & F3053

WIRING



SWITCH DESCRIPTION ON MAIN BOARD:

SW1:



V: 0-10V voltage signal

I: 4-20mA current signal

SW2: •

AVI: remote transmissible pressure gauge 0-10V

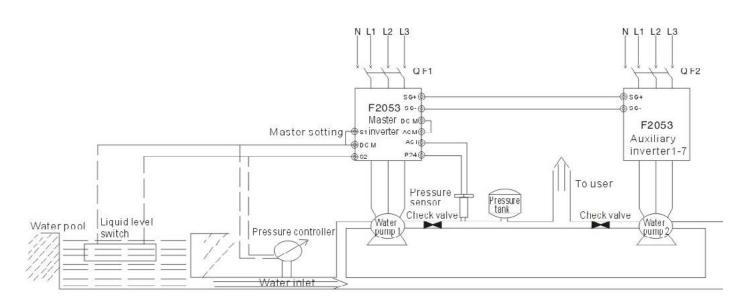
SW3:



Input polarity optional switch

PNP: Multi-function input terminal (S1-S4), FWD/REV connect to common terminal DCM NPN: Multi-function input terminal (S1-S4), FWD/REV connect to common terminal EV

WORKING SYSTEM



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OPERATOR PANEL

The digital keypad includes two parts: the display panel and keypad. The display panel displays the parameters and shows the operation status of the AC drive and the keypad provides a programming and control interface.



Button	Name	Parameter step 1	Parameter step 2
PROG	Programming	Enter or quit from parameter setting	
DATA	Confirm	Parameter no. confirm	Parameter value confirm
^	Increase	Parameter no. increase	Parameter value increase
V	Decrease	Parameter no. decrease	Parameter value decrease
RUN/STOP	RUN/STOP	Shift parameter no	Parameter value shift
Button	Name	Pressure mode	Water flow mode(adjust)
PROG	Programming	Enter or quit from parameter setting	
DATA	Confirm	Displayed Content	
^	Increase	Increase of set pressure	Increase of set flow
V	Decrease	Decrease of set pressure	Decrease of set flow
RUN/STOP	RUN/STOP	RUN/STOP	

PRESSURE TRANSDUCER



MODEL SELECTION

		SYSTEM PARAMETERS		
		0-10Bar	10-16Bar	16-25Bar
VDED	10Bar	X		
RECOMMENDED MODEL	16Bar		X	
RECO	25Bar			X



SPECIFICATIONS

Accuracy: 0.5%FS; 1%FSNonlinearity: Full span x 0.2%Repeatability: Full span x 0.05%

Output: 4-20mA (two wire), 0-5V, 0-10V (three wire); 2mV/V,

3.3mV/V (PTS-210)

Input voltage: 24(12~36)VDC (Amplifying signal),

10(6~12)VDC (mV output)

Operating temperature: -40~800C
Compensated temperature: 0~700C
Overload pressure: 150%FS
Medium material: Stainless steel

Electric connector: Hirschman (DIN), M12, 4 pin, Bendix connector,

grand cable (custom design)

Process connector: G1/4, G1/2, 1/2NPT, 1/4NPT, M12*1.5 (custom design)

