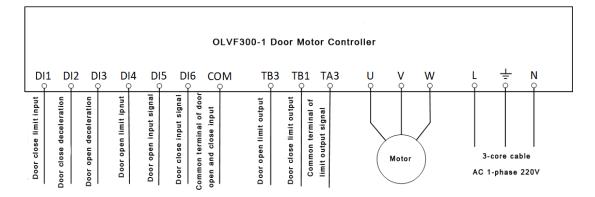
Asynchronous OLVF300-1 Debug Specification

1、OLVF300-1 Wiring Diagram



2、 Product Exterior Overview

1907D50022 DMS1201-VD0T/A9		ON	_	- 0	T	~
开门封位 D1 Opened		D2 开门命令	50F-			· ① *
关门到位 D3 Closed	0	D4 美门命令 OFF M	11		门速度 en speed	保持力矩 Hold torque
校建检出 D5 Fault Detection	0	D6 Mm NS	SW4 SW3		24	· 6.
电源指示灯 D7 Power indicator	•	D8 使能指示灯 Enabled Indicator		自学习 关 Self-learn button Clo	门速度 se speed	重开门力矩 Reopen torque
				数白学习模式。按下白学习 教白学习、在非平原区域数 按下白学习绘磁。此时门机 经在工厂调试完成、工地规 1. Current coefficient ss and SW (2) OFF, select 1 self-learning button and	按钮,此时电机 码开关 SF(1) 使能指示灯点亮 场可以跳过该步 elf-learning. the current p d the enabled	時子炎 59(1)重 OK, 59(2) 重 OFF. 進得力信進貫 使能灯発, 特定能好意天活若行下多操作. 2. 电現 度 OK, 59(2) 重 OK, 進得力电訊参数信学习模式. , 特殊示式環境天活若行下多操作, 2. 电 1. 2 参照 種 3. 通ば及激解具種通言語 Ea the non-leveling zone, switch 5% (1) OK arzameter self-learning mode, press the indicator turns on. Move to the next step
	7			non-leveling zone, swit: self-learning mode, pre- turns on. Move to the m	ch SW (1) ON, ss the self-1 ext step when two been done	. 2. Parameter self-learning of motor. In this SW (2) ON, select the motor parameter earning button and the enabled indicator turns off. Note: step in manufacturing and can be emitted at spong and troubleshooting planes scan.
	Ents					
	SW1	ON 自学习模式 Self-learn mode	SW3	减速微调		
		OFF 运行模式 Running mode 申机参数/正常运行		Reduction adjustment	*	
	SW2 ON electric machine	ON electric machine parameterinormal operation	SW4	ON 150W meter	- 打开	
	SW	· 电流参数/谐试运行		OFF 70#电机		

Note: Description of each part on the diagram

Opened:Light on when door is opened. Convertor outputs signal of door openedClosed:Light on when door is closed. Convertor outputs signal of door closedFault detection:Light on when fault occurred.Power indicator:Light on when power supply works normally.Open:Light on when there is open signal.

Close: Light on when there is close signal.

Enabled indicator: Light on when current outputted.

SW1-SW2 dial switches: Switches for function selection of learning current coefficient, learning motor parameters, normal operation and test operation.

SW3 dial switches: Switch door speed fine adjustment.

SW4 dial switches: Motor power selection.

Trial run button and Self-learn button: Buttons for functions of learning current coefficient, learning motor parameters, normal operation and test operation.

Knob of door opening speed: divided into Gear 1 to Gear 4 and switch the door open speed

Knob of door closing speed: divided into Gear 1 to Gear 4 and switch the door close speed

Torque holding speed: keep the door open and close holding torque through switching the knob

Torque knob of door re-opening: switch the door re-opening torque through switching the knob

3. Procedure of debugging

Note: The parameters have been set in default in manufacturing. The door can be opened and closed smoothly when the installation of door-motor has been finished.

3.1 Motor power selection

In the non-leveling zone, the DIP switch SW3 performs power selection according to the actual motor power, and re-powers after the selection is completed.

3.2 Current coefficient self-learning

In the non-leveling zone, switch SW (1) ON and SW (2) OFF, select the current parameter self-learning mode, press the self-learning button and the enabled indicator turns on. Move to the next step when the enabled indicator turns off.

3.3 Parameter self-learning of motor

In the non-leveling zone, switch SW (1) ON, SW (2) ON, select the motor parameter self-learning mode, press the self-learning button and the enabled indicator turns on. Move to the next step when the enabled indicator turns off.

Note: step 3.2 and 3.3 have been done in manufacturing and can be omitted at spot.

3.4 Trial run

Connect the signals of door close to limit, door close deceleration, door open deceleration and door open to limit to DI1^DI4. Switch SW (1) OFF, SW (2) ON, shortly connect to DI5 and COM and then door opens. When the door opens to the limit the

lights on the panel will be on; Shortly connect to DI6 and COM and then door closes. When the door closes to the limit the lights on the panel will be on. If the trail run direction goes against to the description, please exchange any two of the power lines.

4、Factory state

When the test is finished, place the door open speed on Gear 3, door close speed on Gear 3, holding torque in the middle place and the door re-open torque in the middle place.

5、 Alarm indicator display

Alarm Code	OC	Phl	LU	OL	EC	EH	0S
Indicator code	D5	D1 D3 D4 D5	D3 D5	D1 D3 D5	D5 D6	D2 D5	D1 D2 D5
Alarm Code LE		dE	anE	Act	Pol	HU	0C2
Indicator code	D2 D3 D5	D1 D2 D3 D5	D4 D5	D1 D4 D5	D3 D4 D5	D1 D5	D2 D4 D5

6、Alarms Troubleshooting

Alarm Code	Fault Name	Operation state	Possible Causes	Solutions
		Emerged	Drive circuit error drive	replace drive
		during drive energizing	Encoder error	Replace door motor
		Emerged in	Encoder default angle error	Learning default angle again
OS	Over-speed	motor start-ups	Motor U,V,W phase sequence error	Check and make sure it has been wired correctly
		•	Encoder leads error Encoder error	
		Emerged	Encoder error	Replace door motor
		during motor operation	Mis-adjustment of door motor system parameters cause overshoot	Reset the gain parameters of regulator.
		Emerged	Internal circuit board of drive error	Replace door motor drive
	Main circuit	during energizing	Power is overvoltage	Check if supplied power is excessive
HU/POL M	overvoltage Main circuit power failure	Emerged during motor operation	Internal braking transistor of drive is damaged	Replace door motor drive
		Emerged during main circuit power failure	Report POL in normal circumstances	

			Loose connection of main power line	Check if lines are connected firmly	
	Emerged	Power supply is unstable	Check if power supply is		
		and has low voltage	stable		
		during	Momentary outage longer		
Main circuit	energizing	than 20ms	Check power supply		
LU	LU under-voltag e		Drive internal		
			components error	Replace servo drive	
		Emerged			
		during motor	Instant power-off	Check nower supply	
		operation		Check power supply	
		operation		Check if encoder wiring is	
	Encoder	Emerged	Encoder cable error	correct and if lines are broken	
EC	communicati on abnormity	during energizing	Loose contact of encoder lines	Check if encoder lines are connected firmly	
		01101812118	Encoder damaged	Replace door motor	
			Drive circuit is internally detected error	Replace door motor drive	
EH	Current sampling loop damaged	Emerged during energizing	Internal current sampling loop of drive is damaged	Replace door motor drive	
	damaged	Emerged during energizing	Internal circuit of drive is error	Replace door motor drive	
01	Quarterat		Operated with excessive	Check loads	
OL	Overload	Emerged	torque	Charle if LLV/M/ norman lines	
		during motor	Wrong connection of	Check if U,V,W power lines	
		operation	drive U,V,W power lines	are connected correctly	
		Emerged	Abnormal door motor	Replace door motor	
		during energizing	Internal circuit of drive damaged	Replace door motor drive	
0C Overcu			Short circuit among U,V,W power lines	Check power lines	
			Wrong control loop	Reset control loop	
		Overcurrent Emerged	parameters	parameters	
	Overcurrent		Current output is	Decrease parameter of	
		during motor	excessive	current upper bond	
		operation	Poor grounding and external disturbance	Grounding correctly	
			Internal circuit of drive		
			damaged or phase	Replace drive	
				neplace unive	
			shortage		

0C2	Overcurrent2	Emerged during motor	Drive error	Replace drive	
		operation			
PHL Phase Shortage		Protective tube of bus line fused	Replace protective tub		
		Emerged during motor	Phase-shortage of UVW	Check connection of power	
		startups	power line	line	
		Abnormal motor	Replace motor		
		Emerged during motor operation	Protective tube of bus line fused	Replace protective tub	
			Phase-shortage of UVW	Check connection of power	
			power line	line	
		Emerged during door	door motor operation path hindered	Clear hindrance and restart self-learning function	
		width self-learning	Abnormal motor	Replace motor	
DE Door width error	width Emerged	Wrong door width data	Check if door width parameter PN20 is proper, restart self-learning function		
		low-speed operation	door motor	Clear hindrance and restart	
			Abnormal motor	Replace motor	
			overload	Reduce load and restart	
		the Emerged during default angle learning	Operation path hindered		
AnE	Default angle		and motor blocked	Clear hindrance and restart	
	error		Abnormal motor and encoder	Replace motor	
			Operation path hindered	Cut off the power and check	
				hindrance. Clear hindrance	
		Freedor		and restart the operation	
Act Door open action failed	Door open	Emerged		with power on.	
			Cut off the power and check		
		open	Wrong door width data	hindrance. Restart door	
				width self-learning function	
				with power on	
LE	Without self-learning failure	The motor is just running	The drive does not run directly through angle self-learning	Re-angle self-learning and door width self-learning	