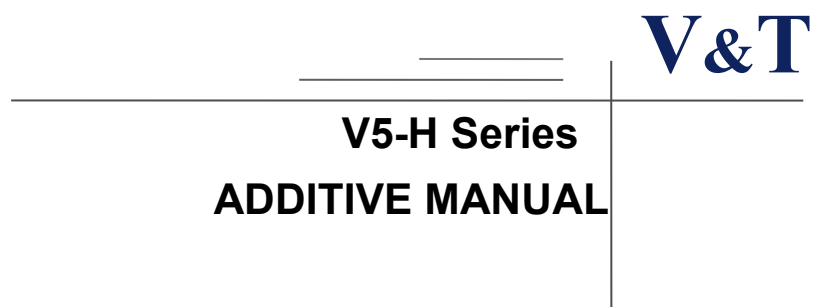


**Vectorque<sup>TM</sup>**

## V5-Q Series Special For Ball Mill



Notice: According to the dedicated application situation, the product software has been optimized for the DC link harmonic elimination, so V5-Q will be delivered without DC choke. The V5-Q series is suitable for ball mill application. PLS notice that if used for other devices may cause irreversible damage.

## 1. Change Scope

The Software has been optimized for the DC link harmonic elimination.

Realize the simple PLC program control function, used for Ball Mill.

Cancel the function of analog curve 3,4.

## 2.Added function code description

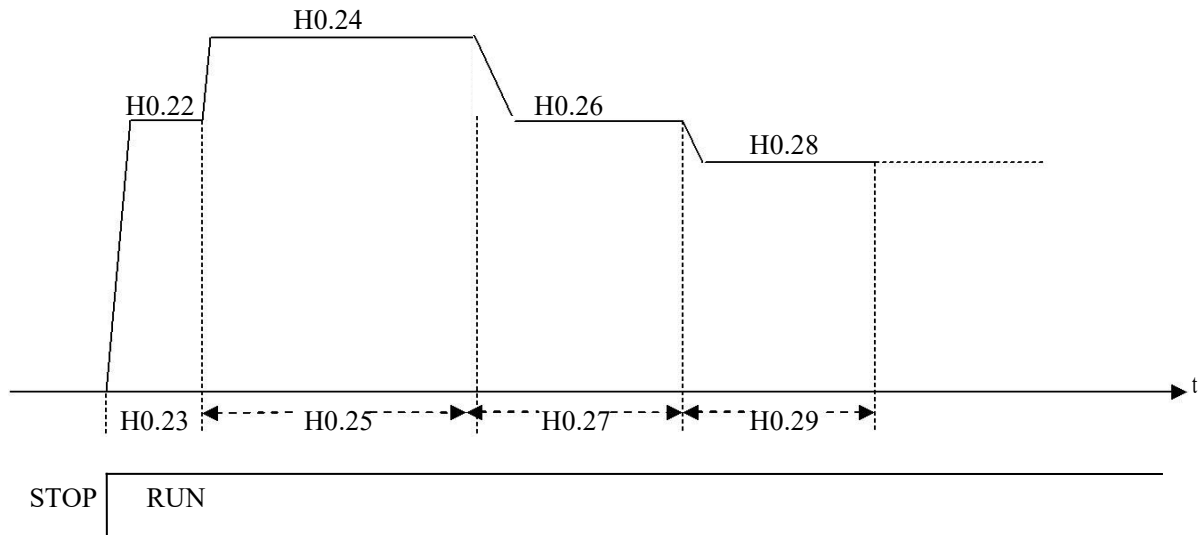
Function Code	Function Code Name	Factory setting	Setting range	Unit	Property	Function Code Selection	User setting
H0.17	PLC outage reset time	4.0	0~3600	S	/	0~3600	
H0.18	PLC function completion indicator (read-only)	1	0~1	/	*	0: Incomplete, 1: Completed	
H0.19	PLC segment number (read-only)	1	0~8	/	*	0~8	
H0.20	The PLC segment elapsed time(read-only)	0.0	0~6553.5	Minute	*	0~6553.5	
H0.21	The section number for PLC	0	0~8	/	o	0: PLC function Invalid, 1~8: PLC program segments	
H0.22	Multi-section Frequency 1	50.00	0~300.00	Hz	o	0~300.00Hz	
H0.23	Multi-section Time 1	1.0	0~3599.9	Minute	o	0~3599.9 Minute	
H0.24	Multi-section Frequency 2	40.00	0~300.00	Hz	o	0~300.00Hz	
H0.25	Multi-section Time 2	1.0	0~3599.9	Minute	o	0~3599.9Minute	
H0.26	Multi-section Frequency 3	25.00	0~300.00	Hz	o	0~300.00Hz	
H0.27	Multi-section Time 3	1.0	0~3599.9	Minute	o	0~3599.9Minute	
H0.28	Multi-section Frequency 4	10.00	0~300.00	Hz	o	0~300.00Hz	
H0.29	Multi-section Time 4	1.0	0~3599.9	minute	o	0~3599.9 Minute	
H0.30	Multi-section Frequency 5	0.00	0~300.00	Hz	o	0~300.00Hz	
H0.31	Multi-section Time 5	0.0	0~3599.9	Minute	o	0~3599.9 Minute	
H0.32	Multi-section Frequency 6	0.00	0~300.00	Hz	o	0~300.00Hz	
H0.33	Multi-section Time 6	0.0	0~3599.9	Minute	o	0~3599.9 Minute	

H0.34	Multi-section Frequency 7	0.00	0~300.00	Hz	○	0~300.00Hz	
H0.35	Multi-section Time 7	0.0	0~3599.9	Minute	○	0~3599.9 Minute	
H0.36	Multi-section Frequency 8	0.00	0~300.00	Hz	○	0~300.00Hz	
H0.37	Multi-section Time 8	0.0	0~3599.9	Minute	○	0~3599.9 Minute	
P5.00~ P5.07	X1~X7 Terminal Function	0	0~99	/	×	Added 32: PLC reset, restart from the first section after reset	
H1.00	Special functions for Ball Mill	1	0~1	/	×	0:Equivalent to standard product 1: Ball Mill Function valid,non-ball mill PLS set to 0 to equivalent to standard product	
H1.04	Low speed range setting	5.00	0.00~50.00	Hz	○	Increase the starting torque range at low speed: setting starting torque too small will fail to start up, Setting starting torque too big will take long time to start up.	
H1.01	System inertia level running with load	160	0~200	%	○	Generally 30%~50% more than running with no-load.	
PA.05	System inertia level running with no-load	120	0~200	%	○	Usually setting at 110%~130%	
H1.05	Smooth start time factor	100.0	0~1000	S	○	Usually set at 2-5 times of P0.08.	
H1.10	The Maximum detecting of system inertia	20	0~100	/	○	Setting too big need long time to start up,setting too small it may fail to start up due to the big inertia detecting error.	
H1.12	Detection of system inertia	1	0~1	/	○	0:common pattern 1:Optimize mode	

### 3.Setting Instruction

Setting the parameter of P0.03=0,P0.04=0 when using the simple PLC program control function.

When setting H0.21>0, it means the PLS control function is valid, H0.21 shows PLC The section number for PLC. Factory setting is 4 section as the following fig:



Shenzhen V&T Technologies Co.,Ltd.

Address: 6F, Xinfeng Building B, Yangguang Industrial Zone, Xili Town, Nanshan District, Shenzhen, China.  
Postal Code: 518055  
Tel: 0755 - 23060667  
Fax: 0755 - 33671802  
Website: <http://www.v-t.net.cn> / [www.vtdrive.com](http://www.vtdrive.com)  
E-mail: [oversea\\_sales@v-t.net.cn](mailto:oversea_sales@v-t.net.cn) / [info@vtdrive.com](mailto:info@vtdrive.com)