

OPERATION

VARIABLE FREQUENCY DRIVE

This package unit is fitted with an inverter to vary the blower speed. Blower speed can be adjusted via the front panel mounted potentiometer. Listed below is a quick reference for factory adjusted VFD settings. VFD Instruction Manuals enclosed and to be read in conjunction with this manual as necessary.

VFD27020 Drives

Parameters:

PAR	DESCRIPTION	SET	DEFINE
1001	EXT1 COMMANDS	1	DI1
1002	EXT2 COMMANDS	0	NOT SEL
1003	DIRECTION	1	FIXED TO FORWARD
1101	KEYPAD REF SEL	1	REF 1 (HZ)
1102	EXT1/EXT2 SEL	0	EXT1 ACTIVE
1103	REF1 SELECT	1	AI 1
1104	REF1 MIN	30.0Hz	
1105	REF1 MAX	69.0Hz	*mtr amp must not exceed rated amp
1301	MINIMUM AI1	5.0%	5% (0.5V)
1302	MAXIMUM AI1	100.0%	100% (10V)
1303	FILTER AI1	0.1s	
1401	RELAY OUTPUT 1	4	FAULT
1404	RO 1 ON DELAY	0.3s	
1405	RO 1 OFF DELAY	0.0s	
1601	RUN ENABLE	1	DI1
1602	PARAMETER LOCK	1	OPEN, not locked.
1604	FAULT RESET	0	KEYPAD
1606	LOCAL LOCK	1	IF DI1 ACTIVE, LOCAL CONTROL DISABLED
2003	MAX CURRENT	30A	
2007	MINIMUM FREQ	20.0Hz	
2008	MAXIMUM FREQ	70.0Hz	
2101	STRT FUNCTION	6	SCAN START
2102	STOP FUNCTION	1	COAST
2113	START DELAY	0.00s	
2202	ACCELER TIME 1	5.0S	
2203	DECELER TIME 1	5.0S	
9902	APPLIC MACRO	1	ABB STANDARD
9905	MOTOR NOM VOLT	460V	
9906	MOTOR NOM CURR	29.1A	
9907	MOTOR NOM FREQ	60.0HZ	
9908	MOTOR NOM SPEED	1765rpm	
9909	MOTOR NOM POWER	18.5kW	