



Powerflex 40 Configuration

AC Drive: PowerFlex 40
Input Voltage: 480 VAC
Configuration: 5, 7.5, 10 HP
Revision: 20-Dec-11
Jumper: Terms 11 - 1
Notes: 1) All Parameters Not Listed Use 'Default' Values
2) NEVER 'Reset to Defaults' (Parm# 41)

Parm No.	Parameter Name	Terminal Connection	Eng Value	Eng Units	Comments
P031	Motor NP Volts		400	VAC	
P032	Motor NP Hertz		335	Hz	
P033	Motor OL Current		17	Amps	
P034	Min. Frequency		0	Hz	Min Frequency - also used as Low for Analog Input Speed Control - Parm# 110
P035	Max. Frequency		300	Hz	Max Frequency - also used as High for Analog Input Speed Control - Parm# 111
Choose One					
P036	Start Source		0	Keypad - Speed Pot	Used for keypad Speed Control -This parameter looks at P038 (Speed Ref). Set P038 to '0' (Speed Pot on KeyPad). Turn POT to adjust speed.
P036	Start Source	11 - 2 Jumpered	2	2 Wire	This is Start / Run Command - This parameter looks at P038 (Speed Ref). Set P038 to '4' (Preset Freq 0). Preset Freq 0 is the Frequency (Speed) entered in Parm# A070. Then wire in contact closure (e.g. PLC) or on-off switch start switch between term# 11 (24VDC) and term# 2 (run/start). This is a single speed option only (Preset Freq 0). If 'auto start' is desired on power-up then hardware (i.e., no switch or PLC in circuit) term# 11 to 2 and set Parm 094 'Start At Power Up' to 1.
P036	Start Source		5	Comm Port	Used with Remote Communications
P037	Stop Mode		4	Ramp	
Choose One					
P038	Speed Reference		0	Keypad - Speed Pot	Use with Speed Pot control - set Parm# A036 to 0
P038	Speed Reference		4	Preset Freq 0 (A070)	Use with 2 Wire Switch or Start on Power Up mode - set Parm# A036 to 2
P038	Speed Reference	13, 14	2	0-10VDC Analog Input	Used with Analog Input - 0-10VDC - Uses Parm# 110 (Analog In 0-10V Lo) and Parm# 111 (Analog In 0-10V Hi) for Scaling. Wire Control Input 0-10VDC to Term# 13 (common) and Term# 14 (+10VDC)
P039	Accel Time 1		10	Secs.	
P040	Decel Time 1		30	Secs.	5 min cool down for frequent start-stop applications to keep motor from overheating. Use 30 Second if blower is programmed for Idle speed or if blower is only started once per day.
Choose Option for Dig In 1					
A051	Digital IN 1 Sel		0	Inactive	Use when separate 'Idle Speed' is not required
A051	Digital IN 1 Sel	11, 5	6	External HIM Control	External HIM (requires P036 and P038 set to '0')
A051	Digital IN 1 Sel	11, 5	4	Preset Freq 1 (A071)	Use when 'Idle Speed' is required - requires 2nd switch wired from Term# 11 (24VDC) and Term#5 (Dig In 1)
A052	Digital IN 2 Sel		0	Inactive	
A053	Digital IN 3 Sel		0	Inactive	
A054	Digital IN 4 Sel	11, 8	3	"Aux Fault"	Connect from Term# 11 (24VDC) to Motor Thermal Cut-Off Switch then back to Term#8 (Dig In 4)
A070	Preset Freq 0		Operating Speed	< 295 Hz	Note: 8 Discrete Speeds Are Possible using up to 3 Digital Inputs (i.e., Dig In 1,2,3)
A084	Boost Select		1		30VT
A085	Start Boost		0		
A086	Break voltage		0		
A087	Break Freq		16		
A088	Max. Voltage		460	VAC	
A089	Current Lim 1		Default	Based On Drive HP	See Drive Amp Ratings on Side of Drive
A091	PWM Freq		8		Carrier Frequency = 8kHz
Choose One					
A094	Start At Power Up		0	Default	No Blower Start at Power Up
A094	Start At Power Up		1	Used to Start on Drive Power Up	Enables 'Run' command to automatically cause the drive to resume running at commanded speed after drive input power is restored.
A095	Reverse disable		1		Disables ability to reverse direction of blower
A125	Torque Perf Mode		0		Volts / Hertz instead of sensorless vector mode
A126	Motor NP FLA		17	Amps	Same for all Jet-1 Motor / AC Drive Combinations

E3281-01-401

AMF/BBU Elkhart

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ELECTRICAL WIRING BLOWER CONTROL FOR 480 VOLT
CAD-1-42-D-C MODEL 2000 AUTO-ADJUST DEPANNER

SCALE: NTS	DRAWN BY: JRJ	ORDER NUMBER	DRAWING NUMBER:	REV
10 = 10 ±0.5 mm	DATE: 4/13/12	E3281	D-10773	PAGE: 13
10.0 = 10 ±0.2 mm	APP'D. BY: LANDIS			OF: B

REV	DESCRIPTION	DATE	BY
B	ADDED TOUCH POINTS	7/2/12	JRJ
A	TRAC NO. 5 CHANGED	7/2/12	JRJ
REV	FILENAME: V:\PDS\E3281\10773.DWG		