PENTAIR

A A
B , B (6 A A)
PERFORMANCE GUIDELINES

A A ( )

1). P , e , c a , 10, ic- i , - e ad , ec i - , be , ed a a j e .

2). Ma i Ra , - Ti e: 1.0 ec d - each 30 H , 4.0 ec d a each c e i i i i , eed/f e e c .. Mi i O e a i g F e e c./S eed (af e i i a a -):
- 30 Hz, 0.5 x Synchronous Speed – Pentek 6", 2 , e
- 30 Hz or 2400 rpm, whichever occurs first – Pe e- 7 a d 8 , 2 , e ; Hi achi 6 a d - 8 , 2 , e
- 42 Hz or 2400 rpm, whichever occurs first – Pe e- 10 , 2 , e ; Hi achi 10 a d - a ge , 2 , e
- 42 Hz or 1070 rpm, whichever occurs first – Hi achi 4 , e

NOTE: he i i f e e c. f he 100-125h , 4 e, 10 Hi achi i 55 H .

3). Maximum Ramp-down Time: 4.0 seconds from minimum frequency to power shut-off.

4). Service Factor for all motors without prior factory c , a j i 1.0.

5). Ma i S eed: 1.0 F L ad S eed.

6). A he i i , e a i g , eed a d a a ed ambient water temperature

The Variable Frequency Drive (VFD) carrier frequency must be set to the lowest frequency for the desired functions of the VFD. A carrier frequency above 4 kHz is not recommended. Contact the factory for he de i ed c

		A A
Pe e- 6		0.5 f / ec (0.15 / ec)
Pe e- 7		0.66 f / ec (0.20 / ec
Pe e- 8	40-75	0.66 f / ec (0.20 / ec)
	100-125	1.64 f / ec (0.5 / ec)
Pe e- 10	150-250	1.64 f / ec (0.5 / ec)
Hi achi 6 a d a ge	-	0.5 f / ec (0.15 / ec)

Variable frequency drives produce voltage spikes that are a f c i f age i e-j ea d e g h f cab e. l e e ca e, ea- age a e ceed h ee-j e he - ia , ea i g age.

A eac i a e i a ce a d i d c a ce de ice ha ed- ce age , i-e . l d e hi b b h i c ea i g he age i e-j ea d i , i g he i eda ce a ch f he cab ea d .

A filter combines a reactor with a capacitor network. The ca aci ab b a , j f he age , i-e . Thi f he ed- ce he , ea- age ee a he .

The chart below is a general guideline when choosing between using a filter or reactor.

		50'	50'	150'	150'	1000'
	230	460	230	460	230	460
A A - .	-	-	R	R	F	F
A A -			-			
		R	R	F		

R = Reac F = Fi e

The following list indicates a greater need for filters a d eac :

- Long motor leads are used
- Standard efficiency or submersible motors are used.
- The cost of replacing the motor is prohibitive.
- Using a submersible motor with a voltage rating greater than 230V.
- The quality and/or age of the motor is unknown.
- Condition of wiring and/or power quality is unknown.

293 , , A A , 53115 .
: 1 866 9 A : 800 426 9446