

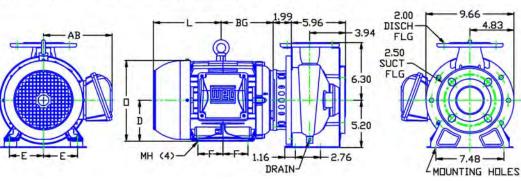
MOTORPUMP[™] — 2900 RPM 50 HERTZ, 2.50 X 2.00 FLG

D326JM14-18

326 JM

MOTOR DIMENSIONS

								2,00	RPM
HP Type Fi	rame	D	Е	F	0	AB	BG	L	ΜΗ
3 ODP JI	M182 4	4.50	3.75	2.25	8.56	6.70	5.75	6.25	0.41
5 ODP J	M184 4	4.50	3.75	2.25	8.56	6.70	6.25	6.15	0.41
7.5 ODP J	M213 5	5.25	4.25	2.75	10.14	7.97	7.25	6.60	0.41
3,5 TEFC JM	M184 4	4.50	3.75	2.75	8.85	7.57	5.51	7.64	0.41
7.5 TEFC J	M215 5	5.25	4.25	3.50	10.37	8.19	6.77	9.16	0.41



ALL DIMENSIONS IN INCHES.

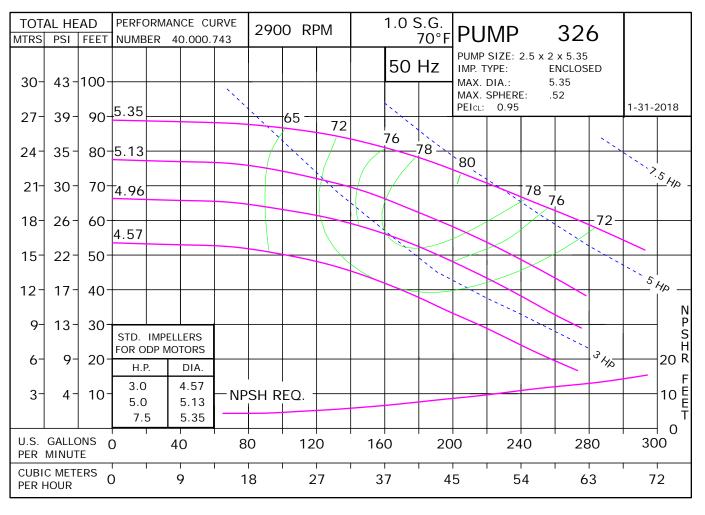
DRAWING DEPICTS 14-18JM 7.5HP TEFC MOTOR

DRAWING REPRESENTS APPROXIMATE PUMP DIMENSIONS. ATOCAD DRAWING TO SCALE AVAILABLE FROM FACTORY.

PUMP TO BE **INSTALLED ONLY IN** THE HORIZONTAL **POSITION AS** SHOWN.

Dimensions are the next larger 60Hz motor

derated for 50Hz operation.





32675TE

D326JM14-18

3262900JM

81.002.228 M19

3262900

326 JM

50 Hertz Pump & Motor Data

A 3-phase 50 Hertz Motorpump[™] can be obtained in several ways. The most common options are listed below:

1. Most 60 Hz pumps available from Scot Pump can be operated on a 3-phase 50 Hz 190/380V power. However, when operated on 50 Hz power, the speed is reduced by approximately 20%, and a significant reduction in performance is realized. The charts below indicate these reductions in performance.

2. Pumps will produce the performance indicated in the performance curves when operated on 50 Hz power. The motors for these selections can be obtained through *derated 60 Hz motors* and *wound 50 Hz motors* (see below).

Contact factory for 1 Phase applications.

Derated 60 Hz Motors

The most common practice and readily available method of obtaining a 50 Hz motor is by using the next larger 60 Hz motor and derating it to the desired horsepower on 50 Hz. We will require the country the motor is being exported to, frequency in hertz and specific voltage to ensure that a nameplate with applicable efficiency and country markings (if required) is supplied. In utilizing this practice, service factors may be derated to 1.0. Please contact the factory for approval of the rating for your specific application.

Wound 50 Hz Motors

Specially wound 50 Hz motors are available. These motors are not normally a stock item and require an extended lead time.

The impeller and horsepower combination sized (taking the reduction in speed into consideration) may not be suitable for operation on 60 Hz power. The increase in speed, performance and load may overload the system and the electric motors. *Pumps sized for 50 Hz operation SHOULD NOT be tested on 60 Hz*.

60 Hz Pump on 50 Hz Power

No Impeller Change

50 Hz	60 Hz	Factor
GPM =	GPM x	0.829
Head =	Head x	0.687
BHP =	HP x	0.569

To Size 60 Hz Pump Using 50 Hz Data,

Obtain 60 Hz Data As Follows:

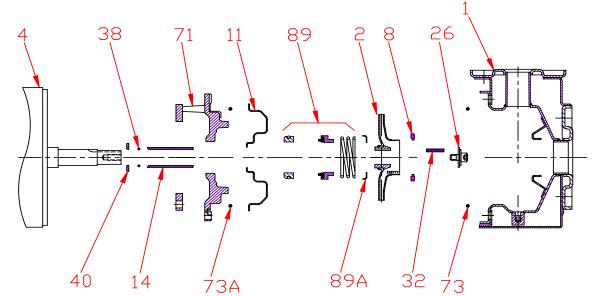
60 Hz	50 Hz	Factor
GPM =	GPM x	1.2
Head =	Head x	1.45
BHP =	HP =	GPM x Head x SG of
BHP =	ΠP =	3960 x Eff

Change of Speed (RPM)				
How Varies: Examples				
GPM	Directly	Double RPM = (2)(RPM) = (2)(GPM) Triple RPM = (3)(RPM) = (3)(GPM)		
Head	Square	Double RPM = $(2)(RPM) = (2)^2 = (2)(2) = (4)(Head)$ Triple RPM = $(3)(RPM) = (3)^2 = (3)(3) = (9)(Head)$		
BHP	Cube	Double RPM = $(2)(RPM) = (2)^3 = (2)(2)(2) = (8)(BHP)$ Triple RPM = $(3)(RPM) = (3)^3 = (3)(3)(3) = (27)(BHP)$		

Change of Impeller Diameter (Dia.)				
	How Varies: Examples			
GPM	Directly	Double Dia. = (2)(Dia.) = (2)(GPM) Triple Dia. = (3)(Dia.) = (3)(RPM)		
Head	Square	Double Dia. = $(2)(Dia.) = (2)^2 = (2)(2) = (4)(Head)$ Triple Dia. = $(3)(Dia.) = (3)^2 = (3)(3) = (9)(Head)$		
BHP	Cube	Double Dia. = $(2)(Dia.) = (2)^3 = (2)(2) (2) = (8)(BHP)$ Triple Dia. = $(3)(Dia.) = (3)^3 = (3)(3)(3) = (27)(BHP)$		

ED1014 D16

Pump 326 • 304SS • JM Frame • 2900 RPM

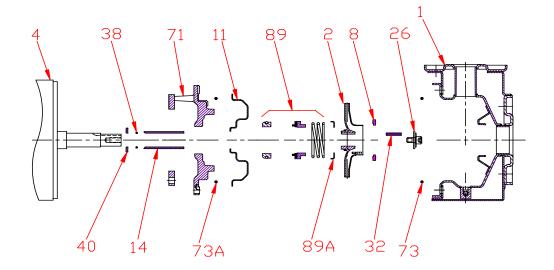


KEY NO.	PART NAME	PUMP 326 137.002.978		
1	CASE, 304SS, 2.5 x 2, FLG			
	IMPELLER, STAINLESS, ENCLOSED, 7/8" KEYED:			
2	4.57" DIA	137.002.971		
	4.96" DIA	137.002.972		
	5.12" DIA	137.002.940		
	5.35" DIA	137.002.974		
4	MOTOR, JM140/180	See 60hz Chart		
4	MOTOR, JM210	See 60hz Chart		
8	RING	137.002.931		
11	COVER, 304SS	137.002.911		
14*	SHAFT SLEEVE, 304SS	137.002.912		
26*	IMPELLER RETAINER, 304SS	118.000.111A		
32*	KEY, 303SS	102.000.102		
38*	O-RING, SHAFT, BUNA	116.000.117		
40*	FLINGER, 304SS	104.000.165		
71	ADAPTER, IRON, JM140/180	137.002.910		
/ 1	ADAPTER, IRON, JM210	137.002.935		
73*	GASKET, CASE, BUNA	137.002.913		
73A*	GASKET, COVER, BUNA	137.003.012		
	1-1/4" SEALS	·		
	TYPE 21, BN-CARB/CM	137.002.949		
89*	TYPE 21, VN-CARB/CM	137.002.950		
09	TYPE 21, VN-CARB/SIL	137.002.952		
	TYPE 21, VN-SIL/SIL	137.002.953		
	TYPE 21, EPDM-CARB/SIL	137.002.951		
89A	SEAL RETAINER, STAINLESS	137.002.948		
	REPAIR KITS:	· · · · · · · · · · · · · · · · · · ·		
	BN-CARB/CM SEAL	118.000.674		
	VN-CARB/CM SEAL	118.000.674A		
	VN-CARB/SIL SEAL	118.000.674D		
	VN-SIL/SIL SEAL	118.000.674B		
	EPDM-CARB/SIL SEAL	118.000.674C		
DENOT	ES COMPONENTS INCLUDED IN REPAIR KIT.			

E320JM B**18**

P3262900JM

Pump 326 • 304SS • JM Frame • 2900 RPM



	CONSTRUCTION OPTIONS			
KEY	PART NAME	STANDARD FITTED		
1	Case	304SS		
2	Impeller	304SS		
		POLYPHENYLENE OXIDE 20%		
8	Impeller Ring	GLASS		
11	Cover	304SS		
14	Sleeve	304SS		
26	Retainer Assembly	304SS		
32	Key	303SS		
38	O-ring, Shaft	BUNA		
40	Flinger	304SS		
71	Motor Disc	Cast Iron		
73	Gasket, Case	Buna		
73A	Gasket, Cover	Buna		
89	Seal Assembly	BN-CARB/CM		
89A	Seal Retainer	304SS		

E320JM

B18

C3262900JM