MOTORPUMPTM — 2900 RPM

50 HERTZ, 2 X 1.5 X 9 NPT

D062JM215

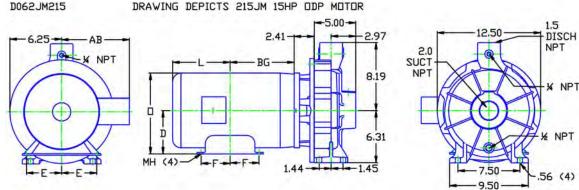
MOTOR DIMENSIONS

NFMA	.IM	FRAME	3 PHASE	2900 RPM

HP	Туре	Frame	D	Е	F	0	AB	BG	L	МН
7.5	ODP	JM213	5.25	4.25	2.75	10.14	7.97	7.25	6.60	0.41
10	ODP	JM215	5.25	4.25	3.50	10.14	7.97	8.00	6.64	0.41
15	ODP	* TCZ254	6.25	5.00	4.13	12.00	9.49	8.88	8.81	0.53
7.5/10	TEFC	JM215	5.25	4.25	3.50	10.37	8.19	6.77	9.16	0.41
20	TEFC	* TCZ254	6.25	5.00	4.13	12.88	10.04	8.88	10.91	0.53

*215JM Shaft

Dimensions are the next larger 60Hz motor derated for 50HZ operation.



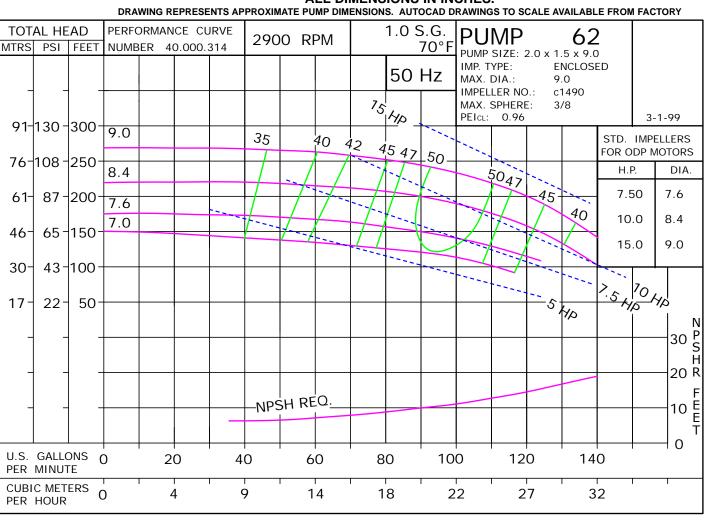
ALL DIMENSIONS IN INCHES.





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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.

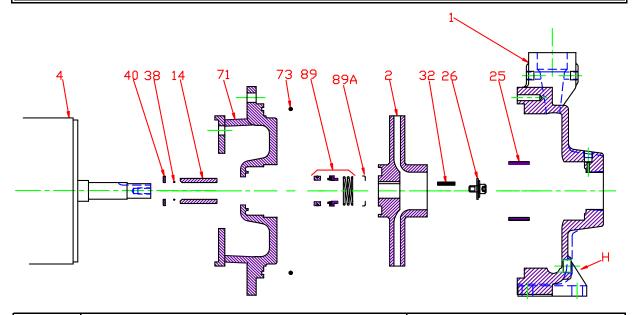
The impeller and horsepower combination sized (taking the reduction in speed into consideration) may not be suitable for operation on 60 Hz power. The increase in speed, performance and load may overload the system and the electric motors. *Pumps sized for 50 Hz operation SHOULD NOT be tested on 60 Hz*.

60 Hz Pump on 50 Hz Power					
No	No Impeller Change				
50 Hz	50 Hz 60 Hz Factor				
GPM =	GPM = GPM x 0.829				
Head =	Head = Head x 0.687				
BHP = HP x 0.569					

To Size 6	To Size 60 Hz Pump Using 50 Hz Data,				
Obtai	Obtain 60 Hz Data As Follows:				
60 Hz	50 Hz	Factor			
GPM =	GPM x	1.2			
Head =	Head = Head x 1.45				
BHP =	$HP = \frac{GPM \times Head \times SG \text{ of}}{3960 \times Eff}$				

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 = $(3)(RPM) = (3)^3 = (3)(3)(3) = (27)(BHP)$		
		ge of Impeller Diameter (Dia.)		
	Chan How Varies:	Examples		
GPM		·		
GPM Head	How Varies:	Examples Double Dia. = (2)(Dia.) = (2)(GPM)		

Pump 62 • Iron • JM Frame • 2900 RPM



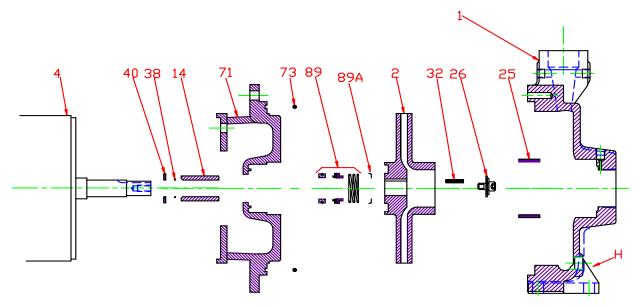
KEY NO.	PART NAME	PUMP NO. 62
1+	CASE, 2 x 1.5 NPT	130.000.260X
	IMPELLER, 7/8"; KEYED, ENCLOSED, SPECIFY	DIAMETER:
2	IRON	137.000.123
	BRONZE	137.002.708
4	MOTOR, JM210	See 60HZ Chart
4	MOTOR, JM210/250	See 60HZ Chart
14*	SHAFT SLEEVE, BRONZE	110.000.178
14	SHAFT SLEEVE, STAINLESS	110.000.192
25	WEAR RING, BRONZE	103.000.166
25	WEAR RING, STEEL	103.000.178
26*	IMPELLER RETAINER, STAINLESS	118.000.111A
32*	KEY, STAINLESS	102.000.102
38*	O-RING, SHAFT, BUNA	116.000.117
36	O-RING, SHAFT, VITON	116.000.105
40*	FLINGER, STAINLESS	104.000.165
71	ADAPTER, IRON - JM210	132.000.275X
73*	GASKET, CASE, FIBER	116.000.240
	1½" SEALS:	
	BN-CARB/CM	101.000.168
	VN-CARB/CM	101.000.191
89*	VN-CARB/SIL	101.000.175
	VN-SIL/SIL	101.000.204
	EPDM-CARB/SIL	101.000.175B
	EPDM-SIL/SIL	101.000.204A
89A*	SEAL RETAINER, STAINLESS	104.000.174
	° REPAIR KITS:	
	BN-CARB/CM SEAL	118.000.386
	VN-CARB/CM SEAL (S)	118.000.386A
	VN-CARB/SIL SEAL	118.000.386B
	VN-SIL/SIL SEAL (S)	118.000.386E
	EPDM-CARB/SIL SEAL	118.000.386C
* DENOTE	S COMPONENTS INCLUDED IN REPAIR KIT.	

^{*} DENOTES COMPONENTS INCLUDED IN REPAIR KIT.

⁺ INCLUDES BRONZE WEAR RING. FOR STEEL WEAR RING, REPLACE SUFFIX "X" WITH "X1".

O ALL REPAIR KITS INCLUDE THE BRONZE SHAFT SLEEVE EXCEPT THE (S) INDICATED, WHICH IS STAINLESS WITH VITON SHAFT O-RING.

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CONSTRUCTION OPTIONS				
KEY	PART NAME	STANDARD FITTED	ALL IRON	
1	Case	Iron	Iron	
2	Impeller	Bronze	Iron	
14	Shaft Sleeve	Bronze	Stainless	
25	Wear Ring	Bronze	Steel	
26	Imp. Retaining Ass'y	Stainless	Stainless	
32	Key	Stainless	Stainless	
38	Shaft O-Ring	BUNA	BUNA	
40	Flinger	Stainless	Stainless	
71	Adapter	Iron	Iron	
73	Gasket, Case	BUNA	BUNA	
89	Mechanical Seal, Type 21 BN-CM	Standard	Standard	
Н	Plug, Drain	Brass	Plated Steel	

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