MOTORPUMPTM — 2900 RPM

50 HERTZ, 2 X 1.5 X 9 NPT

MOTOR DIMENSIONS

JM FRAME 3 PHASE 2900 RPM

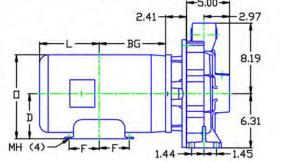
	NEMA JW FRAME SFRASE 2900 RFW										
F	IP.	Туре	Frame	D	Е	F	0	AB	BG	П	МН
7	.5	ODP	JM213	5.25	4.25	2.75	10.14	7.97	7.25	6.60	0.41
1	10	ODP	JM215	5.25	4.25	3.50	10.14	7.97	8.00	6.64	0.41
1	15	ODP	* TCZ254	6.25	5.00	4.13	12.00	9.49	8.88	8.81	0.53
7.5	5/10	TEFC	JM215	5.25	4.25	3.50	10.37	8.19	6.77	9.16	0.41
1	15	TEFC	* TCZ254	6.25	5.00	4.13	12.88	10.04	8.88	10.91	0.53

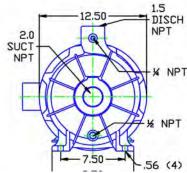
TOTAL HEAD

PERFORMANCE CURVE

D062BJM215

DRAWING DEPICTS 215JM 15HP DDP MOTOR





*215JM Shaft

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

ALL DIMENSIONS IN INCHES.

DRAWING REPRESENTS APPROXIMATE PUMP DIMENSIONS. AUTOCAD DRAWINGS TO SCALE AVAILABLE FROM FACTORY

1.0 S.G.



62B 2900 RPM 70°F PSI FEET NUMBER 40.000.314B PUMP SIZE: 2.0 x 1.5 x 9.0 IMP. TYPE: **ENCLOSED** 50 Hz MAX. DIA.: 9.0 IMPELLER NO.: c1490 75 Mp MAX. SPHERE: PEIcl: 0.98 3-1-99 91-130-300-9.0 35 40 42 STD. IMPELLERS 45 47 FOR ODP MOTORS _50 76-1108 -1250-5047 H.P. DIA. 61 | 87 | 200 | 7.6 7.50 7.6 10.0 8.4 7.0 46-65 150 15.0 9.0 30-43 1100 >.5 HD HD -5 th 22 50 17∃ 30 P S H 20 R 10 E T -NPSH REQ. 0 U.S. GALLONS O 20 40 60 80 100 120 140 CUBIC METERS 9 18 22 27 32 4 14 PER HOUR

062B7DP

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81.001.754 M19

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.

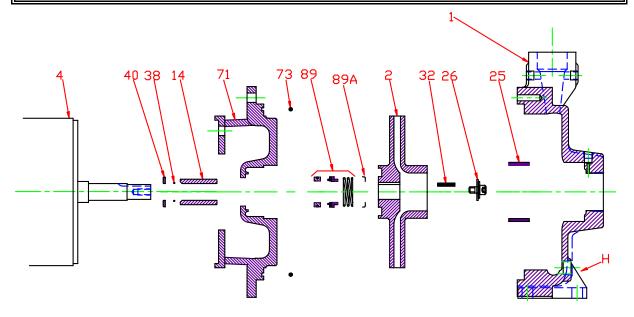
The impeller and horsepower combination sized (taking the reduction in speed into consideration) may not be suitable for operation on 60 Hz power. The increase in speed, performance and load may overload the system and the electric motors. *Pumps sized for 50 Hz operation SHOULD NOT be tested on 60 Hz*.

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

To Size 6	0 Hz Pump	Using 50 Hz Data,
Obtai	n 60 Hz Da	ata 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 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 = $(3)(RPM) = (3)^3 = (3)(3)(3) = (27)(BHP)$
		ge of Impeller Diameter (Dia.)
	Chan How Varies:	Examples
GPM		
GPM Head	How Varies:	Examples Double Dia. = (2)(Dia.) = (2)(GPM)

Pump 62B • Bronze • JM Frame • 2900 RPM



KEY NO.	PART NAME	PUMP NO. 62B
1+	CASE, BRONZE, 2 x 1.5 NPT	130.000.273X
2	IMPELLER, 7/8"; KEYED, ENCLOSED, SPECIFY	DIAMETER:
2	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
26*	IMPELLER RETAINER, STAINLESS	118.000.111A
32*	KEY, STAINLESS	102.000.102
38*	O-RING, SHAFT, BUNA	116.000.117
30	O-RING, SHAFT, VITON	116.000.105
40*	FLINGER, STAINLESS	104.000.165
71	ADAPTER, BRONZE - JM140/180/210	132.000.285X
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.	

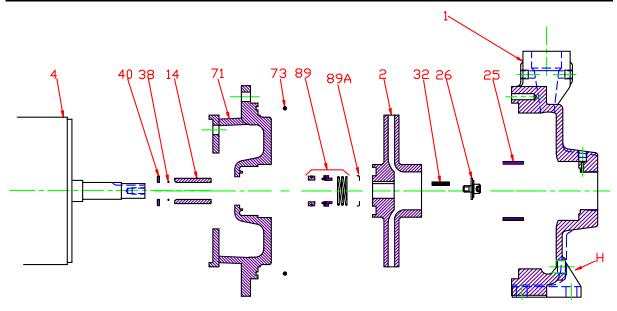
⁺ INCLUDES BRONZE WEAR RING

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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	ALL BRONZE	
1	Case	Bronze	
2	Impeller	Bronze	
14	Shaft Sleeve	Bronze	
25	Wear Ring	Bronze	
26	Imp. Retaining Ass'y	Stainless	
32	Key	Stainless	
38	Shaft O-Ring	BUNA	
40	Flinger	Stainless	
71	Adapter	Bronze	
73	Gasket, Case	BUNA	
89	Mechanical Seal, Type 21 BN-CM	Standard	
Н	Plug, Drain	Brass	

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