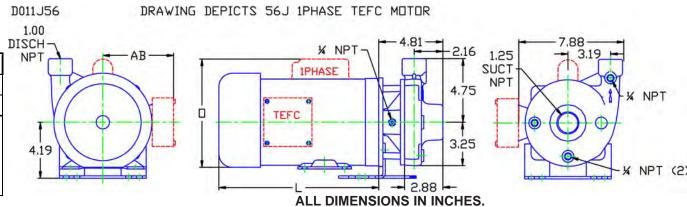
MOTORPUMPTM — 2900 RPM

50 HERTZ, 1.25 X 1 X 5.63 NPT

MOTOR DIMENSIONS

NEMA J56 FRAME 2900 RPM

		ODP			TEFC	
HP		3 PHASE			3 PHASE	
	L	0	AB	L	0	AB
.33	8.26	6.46	3.32	9.48	7.33	5.87
.50	8.26	6.46	3.32	9.48	7.33	5.87
.75	8.65	6.46	3.32	9.48	7.33	5.87
1.0	8.65	6.46	3.32	9.87	7.33	5.87



DRAWING REPRESENTS APPROXIMATE PUMP DIMENSIONS, AUTOCAD DRAWING TO SCALE AVAILABLE FROM FACTORY

44 TV0	-1.50 2.31
1.50 TYP	2.00 3.50
5.5 4.1	
.75 TYP	2.12 2.62 90.00
D1454 - 6.5	7 GAGE (.170)



1454	D011J56
2807DP	0112900
4 4	

0112900J56 81.001.421 M19

TOTA MTRS	AL HE	AD FEET	Į.	RMANCE CURVE 2900 RPM 1.0		1.0 \$	S.G. 70°F	FUMP 11 PUMP SIZE: 1.25 x 1.0 x 5.0											
30-	43-	100-									50		IMP. MAX. IMPE MAX.		O.: RE:	x 1.0 x ENCLOS 5.00 B1001 3/32		5-:	2-79
24-	35-	80-															STD. FOR OI		
24	33	80	5.00														H.P	:	DIA
-	-	-	4.88	-	-40	45 ₋₀											1/3 1/2		4.00
18-	26-	60-	4.50			50	55 57	·									3/4		4.88
				``				U 0 1	55 _								1.0		5.00
12-	17-	40-	4.00 3.50					/ / / / / /	5	45	0	<u> </u>							
6-	- 9- -	20-	3.30					X	× × × × × × × × × × × × × × × × × × ×	2		3		7/4/					-30 -20 -10
							NPSI	H RE	2. کړ ا	7/3 -	10	% ³		'%) 				
	GALL()	10)	2	0	3	80	が 4	0	5		1	1	1	1 1		⊣ 0
LITER PER N	RS MINUT	E ()	38	3	7	6	11	14	15	52	19	0	ı		1	1 1		

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*.

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. Many High Efficient motors can be operated on 50 HZ power without a reduction in horsepower. The motor manufacturers 60 HZ nameplate will remain intact. An "Alternate Motor Rating" nameplate indicating the reduced horsepower, RPM, volts, amps, and service factor will be affixed to the pump. In utilizing this practice, service factors may be derated to 1.0. The standard voltage is 190/380V and has a $\pm 10\%$ voltage variation. In addition, 200/400V and 208/416V may be available. Please contact the factory for approval of the rating for your specific application.

Wound 50 Hz Motors

Specially wound 50 Hz 220/380V six-lead Delta Wye motors are available. Most ratings offer a $\pm 15\%$ voltage variation. These motors are not normally a stock item and require an extended lead time.

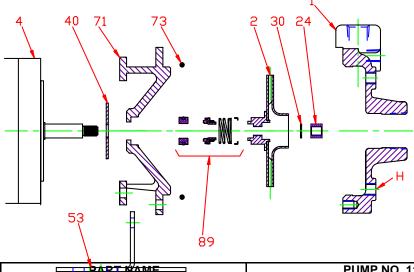
The impeller and horsepower combination sized (taking the reduction in speed into consideration) may not be suitable for operation on 60 Hz power. The increase in speed, performance and load may overload the system and the electric motors. *Pumps sized for 50 Hz operation SHOULD NOT be tested on 60 Hz*.

60 Hz Pump on 50 Hz Power								
No	No Impeller Change							
50 Hz	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 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 = $(3)(RPM) = (3)^2 = (3)(3) = (9)(Head)$				
ВНР	Cube	Double RPM = $(2)(RPM) = (2)^3 = (2)(2)(2) = (8)(BHP)$ Triple RPM = $(3)(RPM) = (3)^3 = (3)(3)(3) = (27)(BHP)$				
	Chan	ge of Impeller Diameter (Dia.)				
	How Varies:	Examples				
GPM	Directly	Double Dia. = (2)(Dia.) = (2)(GPM) Triple Dia. = (3)(Dia.) = (3)(RPM)				
Head		Double Dia. = $(2)(Dia.) = (2)^2 = (2)(2) = (4)(Head)$				
	Square	Triple Dia. = $(3)(Dia.) = (3)^2 = (3)(3) = (9)(Head)$				

Pump 11 • Iron • J56 Frame • 2900 RPM

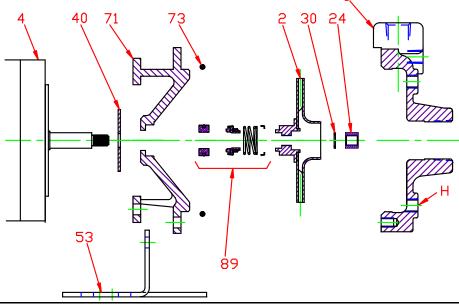


IZEV/ NIC		Dillan	NO 44			
KEY NO.	PART NAME		NO. 11			
1	CASE, IRON, 1.25 x 1 NPT		2.664X			
	IMPELLER, 7/16" THREADED, STAINLESS,	131.000.763R				
	3.50 DIA					
	3.75 DIA		0.763P			
	4.00 DIA	131.000.763J				
	4.25 DIA	131.000.763F				
	4.50 DIA	131.000.763E				
2	4.75 DIA	131.000.763				
	4.88 DIA	131.000.763D				
	5.00 DIA	131.00	0.763C			
	5.25 DIA	131.00	0.763B			
	5.38 DIA	131.00	0. 7 63 G			
	5.50 DIA	131.00	0. 7 63H			
	5.63 DIA	131.00	0. 763 A			
	MOTOR:					
4	J56, ROUND BODY	See 60H	HZ Chart			
	J56, 3.5" RIGID BASE	See 60H	HZ Chart			
24*+	NUT, STAINLESS	105.000.465				
30*+	D WASHER, STAINLESS	104.000.168				
40*	FLINGER, NEOPRENE	104.000.171				
53	BASE, STEEL	119.00	0.231A			
71	ADAPTER, IRON	132.00	0.337X			
73*	GASKET, CASE, BUNA	116.00	00.146			
	5/8" SEALS:					
	NO RETAINER: (not shown)					
	TYPE 6, BN-CARB/CM	101.00	00.110			
	WITH RETAINER:					
89*	TYPE 21, VN-CARB/CM	101.000.103				
09	TYPE 21, VN-CARB/SIL	101.000.120				
	TYPE 21, VN-SIL/SIL	101.000.239				
	TYPE 21, EPDM-CARB/SIL	101.000.173				
	TYPE 21, EPDM-CARB/CM	101.00	00.327			
	TYPE 21, EPDM-SIL/SIL	101.00	00.236			
	REPAIR KITS:	3 PHASE:	† 1 PHASE:			
	BN-CARB/CM SEAL	118.000.340	118.000.340.1			
	VN-CARB/CM SEAL	118.000.340A	118.000.340A.1			
	VN-CARB/SIL SEAL	118.000.340B	118.000.340B.1			
	VN-SIL/SIL SEAL	118.000.340J	118.000.340J.1			
	EPDM-CARB/SIL SEAL	118.000.340C	118.000.340C.1			
	EPDM-CARB/CM SEAL	118.000.340R	118.000.340R.1			
	EPDM-SIL/SIL SEAL	118.000.340D	118.000.340D.1			
* DENOTE	ES COMPONENTS INCLUDED IN DEDAID KI					

^{*} DENOTES COMPONENTS INCLUDED IN REPAIR KIT.

⁺ NOT REQUIRED ON 1/3 TO 1-1/2 HP 1 PHASE MOTORS. † USE 3 PHASE KIT ON 2-3 HP 1 PHASE MOTORS.

Pump 11 • Iron • J56 Frame • 2900 RPM



	CONSTRUCTION OPTIONS				
KEY	PART NAME	STANDARD FITTED	ALL IRON		
1	Case	Iron	Iron		
2	Impeller	Stainless	Stainless		
24	Impeller Locknut	Stainless	Stainless		
30	D-Washer	Stainless	Stainless		
40	Flinger	Neoprene	Neoprene		
53	Base	Steel	Steel		
71	Adapter	Iron	Iron		
73	Gasket, Case	Buna	Buna		
89	Mechanical Seal, Type 6 BN-CM	Standard	Standard		
Н	Plug, Drain	Brass	Plated Steel		

E011J56

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