ELECTRIC MOTOR DRIVE

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BERKELEY® B4EYPBM Cast Iron Impeller

Flanged Case, Packing Construction

	Ø						٦	able I			
	13		B/M	No.	HP	PH	RPM	"U" Dir	n. Imp.	Dia.	Imp. No.
	See Supplement B 811 –	ê.	B51	738	40	3	1800	1-1/4	14.4	44"	L06185
802	14	-812	B51	739	50	3	1800	1-1/4	15.0	J6"	L06186
	17 29 800C 800B 800C 800B	73C 11			73B	1		2 69		7	73A 9
ltem No.	Part Description	Part Number		e la					2	•	2.00 0
1	Case, Volute	L01536					805		/ /		000
2	Impeller	See Table I	810				805	26	0	He	noo
7	Ring, Wearing	S15718						20 0			
9	Cover, Suction	L01541						R	0	0	
13	Rings, Packing (Set of 4)	S13435						0) a		
14	Sleeve, Shaft	S05149								\mathbb{P}	0
17	Gland, Packing	S12034								N.	
26	Screw, Impeller 1/2 - 13 x 1"	S23619								800	A
29	Ring, Lantern	S19200									1765 0495
32	Key, 1/4 x 2-1/4" (See Note)	S23677									
69	Washer, Impeller	S06319									
71	Bracket	See Table II									
73A	Gasket, Suction Cover	S06401									
73B	Gasket, Volute	S06271									
73C	Gasket, Balance Ring	S09943									
115	Ring, Balance	S13655									
800A	Capscrew, 5/8 - 11 x 1-3/4" (16 Req.)	S27001					т	able II			
800B	Capscrew, 5/8 - 11 x 1-1/2" (16 Req.)	S26999	[]							1	
800C	Capscrew, 3/8 - 16 x 1-1/2" [4 Req.]	S26830	HP	PH		ket N			'U" Dim.	Mo	tor Frame
801	Stud, 3/8 - 16 x 2-1/2" (2 Req.)	S04438	40	3		1601		2-1/2"	1-1/4"		324JP
802	Nut, Hex 3/8 - 16 (2 Req.)	S23343	50	3	HC	1601	12	2-1/2"	1-1/4"		326JP
805	Washer, Lock	S23038									
810	Plug, Pipe 1/2 NPT (4 Req.)	S23717	NOTE	For	an ex	plana	ition of	the tabu	lated ma	teria	l found on
811	Fitting, Grease	S23700	this p	age a	nd fo	r imp	eller ke	ey locatio	n, refer t	o Sup	oplement A
812	Elbow, Street	S25421	locate	ed at i	the be	eginni	ng of t	his secti	on.		



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ELECTRIC MOTOR DRIVE

BERKELEY® B4EYPBM Cast Iron Impeller

Flanged Case, Packing Construction

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	3 a		Table I									
Ø.	13 See Supplement B 811 −€		B/M	l No.	HP	PH	RPM	"U"	Dim.	Imp. D	ia.	Imp. No.
802	See Supplement B 811 –			3191	40	3	1800		/4"	14.44		L06185
801	14 -812	71B	B83	8195	50	3	1800	1-1	/4"	15.06	"	L06186
1		115		0	734		2 805A	7				1
ltem No.	Part Description	Part Number	00		69				•	BERKELEY	H	2
1	Case, Volute	M13751			09	~						0
2	Impeller	See Table I				26		1	K	> (N.P.
7	Ring, Wearing	S15718						c	Va	2 /	0	
13	Rings, Packing (Set of 4)	S13435							Y		ο,)
14	Sleeve, Shaft	S05149							Ľ	MA	6	Š –
17	Gland, Packing	B82470							810	PR	10	
26	Screw, Impeller 1/2 - 13 x 1"	S23619									5177	1105
29	Ring, Lantern	S19200										
32	Key, 1/4 x 2-1/4" (See Note)	S23677										
69	Washer, Impeller	S06319										
71A	Ring, Adapter	M13753										
71B	Bracket	See Table II										
73A	Gasket, Suction Cover	S06401										
73B	Gasket, Volute	S06271										
73C	Gasket, Balance Ring	S09943										
115	Ring, Balance	S13655										
800A	Capscrew, 5/8 - 11 x 1-3/4" (16 Req.)	S27001					-					
800B	Capscrew, 5/8 - 11 x 1-1/2" (16 Req.)	S26999		· · · · ·				able		r		
800C	Capscrew, 3/8 - 16 x 1-1/2" (4 Req.)	S26830	HP	PH		ket N		K" Fit	_			or Frame
801	Stud, 3/8 - 16 x 2-1/2" (2 Req.)	S04438	40	3		1601		2-1/2"		-1/4"		324JP
802	Nut, Hex 3/8 - 16 (2 Req.)	S23343	50	3	HO	1601	12	2-1/2"	1-	-1/4"		326JP
805	Washer, Lock	S23038										
810	Plug, Pipe 1/2 NPT (4 Req.)	S23717	NOT	- For		nlana	tion of	tho to	abulat	ted mate	rial	found on
811	Fitting, Grease	S23700										plement A
010		COF (01	5 m S P	-900				-,				

S25421

NOTE: For an explanation of the tabulated material found on this page and for impeller key location, refer to **Supplement A** located at the beginning of this section.



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Elbow, Street

ELECTRIC MOTOR DRIVE

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BERKELEY® B4EYPBM Cast Iron Impeller

Flanged Case, Packing Construction

	(Barrow Control of the second					Т	able I		
Ø.		A	B/M No.	HP	PH	RPM	"U" Dim.	Imp. Dia.	Imp. No.
802		811-9-812	B55977	60	3	1800	1-5/8"	16.00"	L06187
	801	71	B55978	75	3	1800	1-5/8"	16.94"	L06188
	17	0 0	B55979	100	3	1800	1-5/8"	17.88"	L02425
	29 800C 800B 800B			B			2	7	A 9
Item	Part	Part	<u>a</u>	101		\sim			

810

ltem No.	Part Description	Part Number
1	Case, Volute	L01536
2	Impeller	See Table I
7	Ring, Wearing	S15718
9	Cover, Suction	L01541
13	Rings, Packing (Set of 4)	S13437
14	Sleeve, Shaft	S07073L
17	Gland, Packing	B82471
24	Locknut, Impeller	S07829
26	Screw, Impeller 1/2 - 13 x 1-1/4"	S23621
29	Ring, Lantern	S19198
32	Key, 3/8 x 2-1/4" (See Note)	S23940
69	Washer, Impeller	S34492
71	Bracket	See Table II
73A	Gasket, Suction Cover	S06401
73B	Gasket, Volute	S06271
73C	Gasket, Balance Ring	S09943
115	Ring, Balance	S13655
800A	Capscrew, 5/8 - 11 x 1-3/4" (20 Req.)	S27001
800B	Capscrew, 5/8 - 11 x 1-1/2" (12 Req.)	S26999
800C	Capscrew, 3/8 - 16 x 1-1/2" (4 Req.)	S26830
801	Stud, 3/8 - 16 x 2-1/2" (2 Req.)	S04438
802	Nut, Hex 3/8 - 16 (2 Req.)	S23343
805	Washer, Lock	S23038
810	Plug, Pipe 1/2 NPT (4 Req.)	S23717
811	Fitting, Grease	S23700
812	Elbow, Street	S25421

	Table II										
HP	PH	Bracket No.	"AK" Fit	"U" Dim.	Motor Frame						
60	3	H03622	12-1/2"	1-5/8"	364JP						
75	3	H03622	12-1/2"	1-5/8"	365JP						
100	3	H03622	12-1/2"	1-5/8"	404TC						

805

24 (100HP)

26

1766 0495

NOTE: For an explanation of the tabulated material found on this page and for impeller key location, refer to **Supplement A** located at the beginning of this section.



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ELECTRIC MOTOR DRIVE

BERKELEY[®] B4EYPBM Cast Iron Impeller

Flanged Case, Packing Construction

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	@		Table I								
0	13		B/M	No.	HP	PH	RPM	"U" Dim	. Imp. I	Dia.	Imp. No.
02	13 See Supplement B 811–		B83	8192	60	3	1800	1-5/8"	16.0	0"	L06187
801	14 -812	71A	B83	8193	75	3	1800	1-5/8"	16.9	4"	L06188
001		738	B83	188	100	3	1800	1-5/8"	17.8	8"	L02425
	29 800C 800B 800B		SOOA		73A		2 805A	7	Ģ		1
ltem No.	Part Description	Part Number			Y	9]o		1 0 0 0	ERIVELEY	F	P
1	Case, Volute	M13751			69			0			C
2	Impeller	See Table I				26					0
7	Ring, Wearing	S15718			<	26		Ň			P
13	Rings, Packing (Set of 4)	S13437			St	$\widehat{\mathcal{O}}$				0	
14	Sleeve, Shaft	S07073			24 (100					0,)
17	Gland, Packing	B82471			24 (100	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			ZIL	A	Š.
24	Locknut, Impeller	S07829						810	SP	Je)
26	Screw, Impeller 1/2 - 13 x 1-1/4"	S23621								5178 110	5
29	Ring, Lantern	S19198									
32	Key, 3/8 x 2-1/4" (See Note)	S23940									
69	Washer, Impeller	S34492									
71A	Ring, Adapter	M13753									
71B	Bracket	See Table II									
73A	Gasket, Suction Cover	S06401									
73B	Gasket, Volute	S06271									
73C	Gasket, Balance Ring	S09943									
115	Ring, Balance	S13655					τ.				
800A	Capscrew, 5/8 - 11 x 1-3/4" (20 Req.)	S27001		L _	L			able II			
800B	Capscrew, 5/8 - 11 x 1-1/2" (12 Req.)	S26999	HP	PH		ket N			U" Dim.		or Frame
800C	Capscrew, 3/8 - 16 x 1-1/2" (4 Req.)	S26830	60	3		3622			1-5/8"		364JP
801	Stud, 3/8 - 16 x 2-1/2" (2 Req.)	S04438	75	3		3622			1-5/8"		365JP
802	Nut, Hex 3/8 - 16 (2 Req.)	S23343	100	3	I HC	3622	12	-1/2"	1-5/8"		404TC
805	Washer, Lock	S23038									
810	Plug, Pipe 1/2 NPT (4 Req.)	S23717	NOTE	- For	an ex	olana	tion of t	the tabul	ated mat	erial	found on
811	Fitting, Grease	S23700									plement A
010			- F					,			

S25421

NOTE: For an explanation of the tabulated material found on this page and for impeller key location, refer to **Supplement A** located at the beginning of this section.



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BERKELEY® B4EYPBMS Cast Iron Impeller

Flanged Case, Mechanical Shaft Seal Construction

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	800C	Table I								
	0 0 71		B/M No.	HP	PH	RPM	"U" Dim.	Imp. Dia.	Imp. No.	
			B54183	40	3	1800	1-1/4"	14.44"	L06185	
	73C 115		B54184	50	3	1800	1-1/4"	15.06"	L06186	
800	B	815 14 67							•	
	Part Description	Part Number					a.	000		

ltem No.	Part Description	Part Number
1	Case, Volute	L01536
2	Impeller	See Table I
7	Ring, Wearing	S15718
9	Cover, Suction	L01541
14	Sleeve, Shaft	S18869
26	Screw, Impeller 1/2 - 13 x 1-1/4"	S23621
32	Key, 1/4 x 2-1/4" (See Note)	S23677
67	Ring, Spacer	S19349
69	Washer, Impeller	S06319
71	Bracket	See Table II
73A	Gasket, Suction Cover	S06401
73B	Gasket, Volute Case	S06271
73C	Gasket, Blanace Ring	S09943
89	Seal, Mechanical Shaft	S32015
115	Ring, Balance	S19036
800A	Capscrew, 5/8 - 11 x 1-3/4" (16 Req.)	S27001
800B	Capscrew, 5/8 - 11 x 1-1/2" (16 Req.)	S26999
800C	Capscrew, 3/8 - 16 x 1" (4 Req.)	S26826
805	Washer, Lock	S23038
810	Plug, Pipe 1/2 NPT (4 Req.)	S23717
815	Ring, Retaining	S16767

	Table II									
HP	PH	Bracket No.	"AK" Fit	"U" Dim.	Motor Frame					
40	3	H03301	12-1/2"	1-1/4"	324JM					
50	3	H03301	12-1/2"	1-1/4"	326JM					

800A

1699 0295

NOTE: For an explanation of the tabulated material found on this page and for impeller key location, refer to **Supplement A** located at the beginning of this section.



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Table I

BERKELEY® B4EYPBMS Cast Iron Impeller

Flanged Case, Mechanical Shaft Seal Construction

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ELECTRIC MOTOR DRIVE

		lable I							
			B/M No.	HP	PH	RPM	"U" Dim.	Imp. Dia.	Imp. No.
	────────────────────────────────────		B83186	40	3	1800	1-1/4"	14.44"	L06185
	71B		B83187	50	3	1800	1-1/4"	15.06"	L06186
800B	73C 115 89 815 14	73B 800A		73A	0	2 5A 7			
ltem No.	Part	Part						ERKL	100
NO.	Description	Number	69	/	/	```		8	0
2	Case, Volute Impeller	M13751 See Table I		26			X		NP P
7	Ring, Wearing	S15718							0
14	Sleeve, Shaft	S18869							,
26	Screw, Impeller 1/2 - 13 x 1-1/4"	S23621					M	1.	
32	Key, 1/4 x 2-1/4" (See Note)	S23677					\times	HBR	
67	Ring, Spacer	S19349					810	5179 110	5
69	Washer, Impeller	S06319							
71A	Ring, Adapter	M13753							
71A	Bracket	See Table II							
73A	Gasket, Suction Cover	S06401							
73B	Gasket, Volute Case	S06271							
73C	Gasket, Blanace Ring	S09943							
						-	- h -		

S32015

S19036

S27001

S26999

S26826

S23038

S23717

S16767

Table II								
HP	PH	Bracket No.	"AK" Fit	"U" Dim.	Motor Frame			
40	3	H03301	12-1/2"	1-1/4"	324JM			
50	3	H03301	12-1/2"	1-1/4"	326JM			

NOTE: For an explanation of the tabulated material found on this page and for impeller key location, refer to **Supplement A** located at the beginning of this section.



89

115

800A

800B 800C

805

810

815

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Seal, Mechanical Shaft

Capscrew, 5/8 - 11 x 1-3/4" (16 Req.)

Capscrew, 5/8 - 11 x 1-1/2" (16 Req.)

Capscrew, 3/8 - 16 x 1" (4 Req.)

Plug, Pipe 1/2 NPT (4 Reg.)

Ring, Balance

Washer, Lock

Ring, Retaining

BERKELEY[®] B4EYPBMS Cast Iron Impeller

Flanged Case, Mechanical Shaft Seal Construction

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1700 0295

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71	D 822				Т	able I		
	Seal Flush Line Shown twice scale	B/M No.	HP	PH	RPM	"U" Dim.	Imp. Dia.	Imp. No.
		B62039	60	3	1800	1-5/8"	16.00"	L06187
7	3C 820	B62041	75	3	1800	1-5/8"	16.94"	L06188
	115	B62043	100	3	1800	1-5/8"	17.88"	L02425
802 Detail of Mechanical Seal Retainer			B	•		2 69	7 73A 0 Q. 0 Q.	9
Part	Part		20	$\int Q$				× .
Description	Number	20						
ite	L01536				805	Kol	0	0 9
	See Table I	810			2	26 0	Ho A	Nod

ltem No.	Part Description	Part Number
1	Case, Volute	L01536
2	Impeller	See Table I
7	Ring, Wearing	S15718
9	Cover, Suction	L01541
11	Retainer, Mechanical Shaft Seal	S15377
14	Sleeve, Shaft	S07073
26	Screw, Impeller 1/2 - 13 x 1-1/4"	S23621
32	Key, 1/4 x 2-1/4" (See Note)	S23677
69	Washer, Impeller (60-75 HP)	S34492
69	Washer, Impeller (100 HP)	S07829
71	Bracket	See Table II
73A	Gasket, Suction Cover	S06401
73B	Gasket, Volute Case	S06271
73C	Gasket, Balance Ring	S09943
73D	Gasket, Seal Retainer	S15078
89	Seal, Mechanical Shaft	S32016
115	Ring, Balance	S13655
800A	Capscrew, 5/8 - 11 x 1-3/4" (20 Req.)	S27001
800B	Capscrew, 5/8 - 11 x 1-1/2" (12 Req.)	S26999
800C	Capscrew, 3/8 - 16 x 1-1/2" (4 Req.)	S26830
801	Stud, 3/8 - 16 x 2-1/2" (2 Req.)	S04438
802	Nut, 3/8 - 16 (2 Req.)	S23343
805	Washer, Lock (Not On 100 HP)	S23038
810	Plug, Pipe 1/2 NPT (4 Req.)	S23717
820	Connector, Comp. Fitting (2 Req.)	S24013
822	Tubing, Copper	S20677
•	Plug, Pipe 1/8 NPT (Not Illustrated)	S23714
•	Plug, Pipe 1/4 NPT (Not Illustrated)	S23715

Table II									
HP	PH	Bracket No.	"U" Dim.	Motor Frame					
60	3	H03936	12-1/2"	1-5/8"	364JP				
75	3	H03936	12-1/2"	1-5/8"	365JP				
100	3	H03936	12-1/2"	1-5/8"	404TC				
	60	60 3 75 3	60 3 H03936 75 3 H03936	HP PH Bracket No. "AK" Fit 60 3 H03936 12-1/2" 75 3 H03936 12-1/2"	HP PH Bracket No. "AK" Fit "U" Dim. 60 3 H03936 12-1/2" 1-5/8" 75 3 H03936 12-1/2" 1-5/8"				

NOTE: For an explanation of the tabulated material found on this page and for impeller key location, refer to Supplement A located at the beginning of this section.



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ELECTRIC MOTOR DRIVE

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71B 800D 822 Seal Flus	h Lina					Т	able I			
Shown twi	ce scale.	B/M	No.	HP	PH	RPM	"U" Di	m. Imp.	Dia.	Imp. No.
0 73C 820		B83	194	60	3	1800	1-5/8			L06187
115	73B	B83	189	75	3	1800	1-5/8	3" 16.9	4"	L06188
800C 0 89	800A	B83	190	100	3	1800	1-5/8	3" 17.8	8"	L02425
Sound Seal Retainer			73А	805A	2					
Part Description	Part Number	69	26	K			Relet	0.0		
Case, Volute	M13751					No to		() , [
Impeller	See Table I							., ^		
Ring, Wearing	S15718					Ľ,	1 NG	*		
Retainer, Mechanical Shaft Seal	S15377					810	5180	©		
Sleeve, Shaft	S07073						5180	1105		
Screw, Impeller 1/2 - 13 x 1-1/4"	S23621									
Key, 1/4 x 2-1/4" (See Note)	S23677									
Washer, Impeller (60-75 HP)	S34492									
Washer, Impeller (100 HP)	S07829									
Ring, Adapter	M13753									
Bracket	See Table II									
Gasket, Suction Cover	S06401									
Gasket, Volute Case	S06271									
Gasket, Balance Ring	S09943									
Gasket, Seal Retainer	S15078									
Seal, Mechanical Shaft	S32016									
Ring, Balance	S13655									
Capscrew, 5/8 - 11 x 1-3/4" (20 Req.)	S27001									
Capscrew, 5/8 - 11 x 1-1/2" (12 Req.)	S26999									
Capscrew, 3/8 - 16 x 1-1/2" (4 Req.)	S26830					Ta	able I	l		
Stud, 3/8 - 16 x 2-1/2" (2 Req.)	S04438	HP	PH	Brac	ket N	o. "A	K" Fit	"U" Dim.	Mot	or Frame
Nut, 3/8 - 16 (2 Req.)	S23343	60	3		3936		-1/2"	1-5/8"		364JP
Washer, Lock (Not On 100 HP)	S23038	75	3		3936		-1/2"	1-5/8"		365JP
Plug, Pipe 1/2 NPT (4 Reg.)	S23717	100	3		3936		-1/2"	1-5/8"		404TC
Connector, Comp. Fitting (2 Req.)	S24013									
Tubing, Copper	S20677		_							
Plug Pipe 1/8 NPT (Net Illustrated)	\$2371/	NOTE	: For	an exp	planat	tion of	the tabu	ulated mat	erial	found on

BERKELEY[®] B4EYPBMS

Flanged Case, Mechanical Shaft Seal Construction

Cast Iron Impeller

NOTE: For an explanation of the tabulated material found on this page and for impeller key location, refer to Supplement A located at the beginning of this section.



Item No. 1

2

7

11

14

26

32

69

69 71A

71B

73A

73B

73C

73D

89 115

800A 800B

800C

801

802

805

810

820

822

•

•

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Plug, Pipe 1/8 NPT (Not Illustrated)

Plug, Pipe 1/4 NPT (Not Illustrated)

S23714

S23715