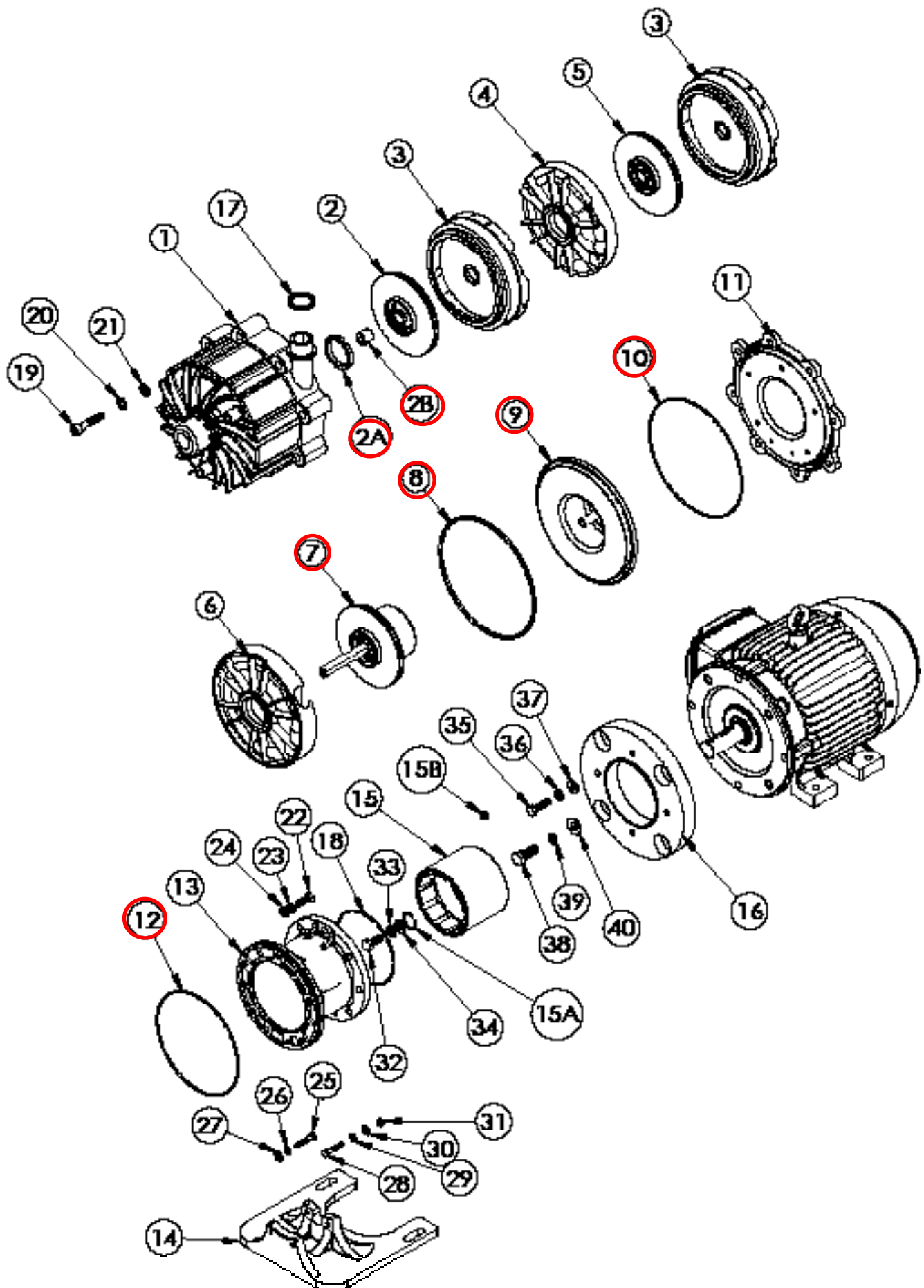


TMS



TMS Spare Parts List				
Item	Qty	Description	Pump Material	
			Polypro	PVDF
1	1	Standard Housing with Ring & Shaft		
		NPT Threads w/ alumina ring & shaft	105860	105860-2
		BSP Threads w/ alumina ring & shaft	105860-1	105860-3
		NPT Thread w/ SiC ring & shaft	105860-4	105860-6
		BSP Thread w/ SiC ring & shaft	105860-5	105860-7
		Steel flanges w/ Alumina Ring & shaft - ANSI150/PN20/40	105929	105929-2
		FRP flanges w/ Alumina ring & shaft - ANSI150/PN20/40	105929-1	105929-3
		Steel flanges w/ SiC Ring & shaft - ANSI150/PN20/40	105929-4	105929-6
		FRP flanges w/ SiC ring & shaft - ANSI150/PN20/40	105929-5	105929-7
		FRP flanges w/ Alumina ring & shaft - JIS10K	105929-8	105929-9
		FRP flanges w/ SiC ring & shaft -JIS10K	105929-10	105929-11
2	1 or 2	1st Stage Impeller Assy (includes bushing, impeller thrust ring, & rear thrust ring)		
		See MSDB Impeller Assemblies Table		
2A	3	Impeller Thrust Ring Only		
		Filled PTFE (Standard)	106257	
		SiC (Optional)	N/A	
2B	1	Impeller Bushing Only		
		Carbon (standard)	J102387	
		Filled PTFE (Optional)	J102790	
		SiC (Optional)	J103617-1	
		Alumina Ceramic (Optional)	J103617	
3	2	Diffuser Assembly		
		40% Glass-Filled PPS w/ PTFE Ring (Standard)	111050	
4	1	Middle Housing Assembly		
		40% Glass-Filled PPS w/ Alumina Ring (Standard)	105832	
		40% Glass-Filled PPS w/ Sic Ring (Optional)	105832-1	
5	1	2nd Stage Impeller Assy (includes impeller thrust ring) (used in 3-stage pumps only)		
		See MSDB Impeller Assemblies Table		
6	1	Inner Volute Assembly		
		40% Glass-Filled PPS w/ PTFE Ring (Standard)	105831	
		40% Glass-Filled PPS w/ Sic Ring (Optional)	105831-1	
7	1	3rd Stage Drive Impeller Assembly with Thrust Ring, Bushing, Drive Shaft, & Imp Drive. Also used as the 2nd Stage Drive Impeller in a 2 stage pump.		
		See MSDB Impeller Assemblies Table		
8	1	Housing O-Ring		
		EPDM (Optional)	105717	
		FKM (Standard)	105716	
		Kalrez (Optional)	105718	
		Simriz (Optional)	105719	
9	1	Barrier		
		w/ alumina ceramic shaft	105689-5	105689-6
		w/ SiC shaft	105689-7	105689-8

10	1	Barrier O-Ring		
		Buna	107281	
11	1	Clamp Ring		
		Painted Cast Iron (Standard)	107228	107228-1
		Painted cast iron with non-sparking ring	107321	107321-1
		Painted cast iron (ATEX)	N/A	107321-1
		Stainless Steel	108600	108600
		Stainless Steel with non-sparking ring	108600-1	108600-1
		Stainless steel (ATEX)	N/A	108600-1
12	1	Clamp Ring/Motor O-Ring		
		Buna	107282	
13	1	Motor Adapter Column		
		Standard	106890	106890-1
		ATEX	N/A	106890-2
14	1	Pump Foot		
		All Frame Sizes Except 100/112	105691-1	105691-4
		100 frame with B14 flange only	105691-3	105694-6
		112 frame with B14 flange only	105691-2	105694-5
15	1	Drive Magnet Assembly with Retaining Ring		
		6-pole 56C frame (includes set screws)	105878	
		8-pole 56C frame (includes set screws)	105878-1	
		6-pole 143/145TC frame (includes set screws)	105878-3	
		8-pole 143/145TC frame (includes set screws)	105878-4	
		10-pole 182/184TC frame (includes set screws)	105730-9	
		6-pole 80 frame	105882	
		8-pole 80 frame	105882-1	
		6-pole 90 frame	105882-3	
		8-pole 90 frame	105882-4	
		10-pole 100/112 frame	105730-18	
15A	1	Retaining Ring Only		
		182/184TC frame	105710	
		143/145TC frame	105709	
		56C frame	105708	
		100/112 frame	105710	
		90 frame	105712	
		80 frame	105711	
15B	2	Set Screws		
		NEMA motor frames Only	J101084	

16	1	Motor Adapter Flange		
		182/184TC frame	105751-1	105751-2
		80 frame B14	105724-1	105724-2
		90 frame B14	105725-1	105725-2
		100/112 frame B14	105726-1	105726-2
		80/90 frame B5	106274	106274-1
		100/112 frame B5	107315	107315-1
		80 frame B14 ATEX	N/A	105724-3
		90 frame B14 ATEX	N/A	105725-3
		100/112 frame B14 ATEX	N/A	105726-3
		80/90 frame B5 ATEX	N/A	106274-2
		100/112 frame B5 ATEX	N/A	107315-1
17	1	Discharge O-Ring (BSP Threaded Housings Only)		
		EPDM (Optional)	106304	
		FKM (Standard)	106303	
		Kalrez (Optional)	106305	
		Simriz (Optional)	106306	
18	1	Motor Adapter Column/Motor O-Ring (not shown) NEMA 56C, 143TC, 145TC ONLY		
		Buna	106549	

MSDB HARDWARE			
Item	qty	Description	Stainless Steel
19	8	Housing Bolt	
			110990
20	8	Housing Lockwasher	
			105757
21	8	Housing Flat Washer	
			105722
22	5	Clamp Ring Bolt	
			J103662
23	5	Clamp Ring Lockwasher	
			J102282
24	5	Clamp Ring Flat Washer	
			J101293
25	2	Front Foot Bolt	
			107289
26	2	Front Foot Lockwasher	
			J100672
27	2	Front Foot Flat Washer	
			J100113
28	2	Rear Foot Bolt	
			J103968
29	2	Rear Foot Lockwasher	
			J100672
30	2	Rear Foot Flat Washer	
			J100113

31	2	Rear Foot Nut	
			107286
32	1	Drive Bolt (IEC Motors Only)	
		80 Frame	105765
		90 Frame	105770
		100/112 Frame	105774
33	1	Drive Lockwasher (IEC Motors Only)	
		80 Frame	J100672
		90 Frame	J102282
		100/112 Frame	J100115
34	1	Drive Flat Washer (IEC Motors Only)	
		80 Frame	105767
		90 Frame	105722
		100/112 Frame	J103160
35	4	Motor Adapter bolt	
		All frames except 100/112 B5	J103118
		100/112 B5 frames only	J100114
36	4	Motor Adapter Lockwasher	
		All Frames	J100115
37	4	Motor Adapter Flat Washer	
		All Frames	J100128
38*	4	Motor Adapter Flange Bolts	
		182/184TC frame	J103782
		80 frame with B14 flange	105765
		90 frame with B14 flange	105770
		100/112 frame with B14 flange	105770
39*	4	Motor Adapter Flange Lockwasher	
		182/184TC frame	J101023
		80 frame with B14 flange	J100672
		90 frame with B14 flange	J102282
		100/112 frame with B14 flange	J102282
40*	4	Motor Adapter Flange Flat Washer	
		182/184TC frame	J103851
		80 frame with B14 flange	J100113
		90 frame with B14 flange	J101293
		100/112 frame with B14 flange	J101293

*For IEC B5 frame pumps: Hardware is to be supplied by customer due to variations in B5 frame motors.

1ST STAGE IMPELLER ASSEMBLY	
(INCLUDES CARBON BSHG, PTFE FRONT THRUST RING, ALUMINA CERAMIC REAR THRUST RING)	
IMP #	PART #
#1	105935
#2	105935-24
#3	105935-32
#4	105935-40
#5	105935-48
#6	105935-56

1ST STAGE IMPELLER ASSEMBLY	
(INCLUDES PTFE BSHG, PTFE FRONT THRUST RING, ALUMINA CERAMIC REAR THRUST RING)	
IMP #	PART #
#1	105935-2
#2	105935-25
#3	105935-33
#4	105935-41
#5	105935-49
#6	105935-57

1ST STAGE IMPELLER ASSEMBLY	
(INCLUDES ALUMINA CERAMIC BSHG, PTFE FRONT THRUST RING, ALUMINA CERAMIC REAR THRUST RING)	
IMP #	PART #
#1	105935-60
#2	105935-61
#3	105935-62
#4	105935-63
#5	105935-64
#6	105935-65

1ST STAGE IMPELLER ASSEMBLY	
(INCLUDES SiC BSHG, PTFE FRONT THRUST RING, ALUMINA CERAMIC REAR THRUST RING)	
IMP #	PART #
#1	105935-15
#2	105935-27
#3	105935-35
#4	105935-43
#5	105935-51
#6	105935-59

1ST STAGE IMPELLER ASSEMBLY	
(INCLUDES SiC BSHG, SiC FRONT THRUST RING, ALUMINA CERAMIC REAR THRUST RING)	
IMP #	PART #
#1	111310
#2	111310-1
#3	111310-2
#4	111310-3
#5	111310-4
#6	111310-5

2ND STAGE IMPELLER ASSEMBLY	
(INCLUDES PTFE FRONT THRUST RING, ALUMINA CERAMIC REAR THRUST RING)	
IMP #	PART #
#1	111088
#2	111088-6
#3	111088-10
#4	111088-14
#5	111088-18
#6	111088-22

2ND STAGE IMPELLER ASSEMBLY	
(INCLUDES SiC FRONT THRUST RING, ALUMINA CERAMIC REAR THRUST RING)	
IMP #	PART #
#1	111311
#2	111311-1
#3	111311-2
#4	111311-3
#5	111311-4
#6	111311-5

3RD STAGE IMPELLER ASSEMBLY ASSY		
(INCLUDES PTFE FRONT THRUST RING, CARBON BUSHING)		
IMP #	POLYPRO	PVDF
#1	PART #	PART #
6-POLE	105932-12	105932-66
8-POLE	105932-6	105932-60
10-POLE	105932	105932-54
#2		
6-POLE	105932-13	105932-67
8-POLE	105932-7	105932-61
10-POLE	105932-1	105932-55
#3		
6-POLE	105932-14	105932-68
8-POLE	105932-8	105932-62
10-POLE	105932-2	105932-56
#4		
6-POLE	105932-15	105932-69
8-POLE	105932-9	105932-63
10-POLE	105932-3	105932-57
#5		
6-POLE	105932-16	105932-70
8-POLE	105932-10	105932-64
10-POLE	105932-4	105932-58
#6		
6-POLE	105932-17	105932-71
8-POLE	105932-11	105932-65
10-POLE	105932-5	105932-59

3RD STAGE IMPELLER ASSEMBLY ASSY		
(INCLUDES PTFE FRONT THRUST RING, SiC BUSHING)		
IMP #	POLYPRO	PVDF
#1	PART #	PART #
6-POLE	105932-30	105932-84
8-POLE	105932-24	105932-78
10-POLE	105932-18	105932-72
#2		
6-POLE	105932-31	105932-85
8-POLE	105932-25	105932-79
10-POLE	105932-19	105932-73
#3		
6-POLE	105932-32	105932-86
8-POLE	105932-26	105932-80
10-POLE	105932-20	105932-74
#4		
6-POLE	105932-33	105932-87
8-POLE	105932-27	105932-81
10-POLE	105932-21	105932-75
#5		
6-POLE	105932-34	105932-88
8-POLE	105932-28	105932-82
10-POLE	105932-22	105932-76
#6		
6-POLE	105932-35	105932-89
8-POLE	105932-29	105932-83
10-POLE	105932-23	105932-77

3RD STAGE IMPELLER ASSEMBLY ASSY**(INCLUDES PTFE FRONT THRUST RING, ALUMINA
CERAMIC BUSHING)**

IMP #	POLYPRO	PVDF
#1	PART #	PART #
6-POLE	105932-120	105932-138
8-POLE	105932-114	105932-132
10-POLE	105932-108	105932-126
#2		
6-POLE	105932-121	105932-139
8-POLE	105932-115	105932-133
10-POLE	105932-109	105932-127
#3		
6-POLE	105932-122	105932-140
8-POLE	105932-116	105932-134
10-POLE	105932-110	105932-128
#4		
6-POLE	105932-123	105932-141
8-POLE	105932-117	105932-135
10-POLE	105932-111	105932-129
#5		
6-POLE	105932-124	105932-142
8-POLE	105932-118	105932-136
10-POLE	105932-112	105932-130
#6		
6-POLE	105932-125	105932-143
8-POLE	105932-119	105932-137
10-POLE	105932-113	105932-131

3RD STAGE IMPELLER ASSEMBLY ASSY		
(INCLUDES PTFE FRONT THRUST RING, PTFE BUSHING)		
IMP #	POLYPRO	PVDF
#1	PART #	PART #
6-POLE	105932-48	105932-102
8-POLE	105932-42	105936-96
10-POLE	105932-36	105932-90
#2		
6-POLE	105932-49	105932-103
8-POLE	105932-43	105932-97
10-POLE	105932-37	105932-91
#3		
6-POLE	105932-50	105932-104
8-POLE	105932-44	105932-98
10-POLE	105932-38	105932-92
#4		
6-POLE	105932-51	105932-105
8-POLE	105932-45	105932-99
10-POLE	105932-39	105932-93
#5		
6-POLE	105932-52	105932-106
8-POLE	105932-46	105932-100
10-POLE	105932-40	105932-94
#6		
6-POLE	105932-53	105932-107
8-POLE	105932-47	105932-101
10-POLE	105932-41	105932-95

3RD STAGE IMPELLER ASSEMBLY ASSY		
(INCLUDES SiC FRONT THRUST RING, SiC BUSHING)		
IMP #	POLYPRO	PVDF
#1	PART #	PART #
6-POLE	111309-12	111309-30
8-POLE	111309-6	111309-24
10-POLE	111309	111309-18
#2		
6-POLE	111309-13	111309-31
8-POLE	111309-7	111309-25
10-POLE	111309-1	111309-19
#3		
6-POLE	111309-14	111309-32
8-POLE	111309-8	111309-26
10-POLE	111309-2	111309-20
#4		
6-POLE	111309-15	111309-33
8-POLE	111309-9	111309-27
10-POLE	111309-3	111309-21
#5		
6-POLE	111309-16	111309-34
8-POLE	111309-10	111309-28
10-POLE	111309-4	111309-22
#6		
6-POLE	111309-17	111309-35
8-POLE	111309-11	111309-29
10-POLE	111309-5	111309-23