

# Electrical Data – H3H(X)P/H4H(X)P/C4S(X)P

## MODEL: H3H(X)P/H4H(X)P/C4S(X)P - Hydromatic® Premium Efficient (HPE) Submersible Solids Handling Pump

R.P.M.	1750			
MOTOR TYPE	ENCLOSED, OIL COOLED INDUCTION, VFD SUITABLE			
MOTOR DESIGN NEMA TYPE	A or B (3ø) EXCEEDS L (1ø)			
GENERAL INSULATION CLASS	H			
STATOR WINDING CLASS	H			
MAXIMUM STATOR TEMPERATURE RATING	356°F (180°)			
MOTOR PROTECTION	BI-METALLIC, TEMPERATURE SENSITIVE DISC, SIZED TO OPEN AT 130°C AND AUTOMATICALLY RESET @ 82°C DIFFERENTIAL, ONE IN SINGLE PHASE, THREE IN THREE PHASE			
ELECTRICAL RATINGS	HEAT SENSOR	24VDC 5AMPS	115VAC 5AMPS	230VAC 5AMPS
	SEAL FAIL	300VAC 5mA		
VOLTAGE TOLERANCE	±10%			

HP	VOLTAGE	PHASE	NEC CODE	SF	FULL LOAD AMPS	SF AMPS	LOCKD. RTTR. AMPS	RUN KW	START KVA	RUN KVA	NEMA REQ. PREMIUM EFFICIENCY @ FL	MTR. EFF. 100% FL	MTR. EFF. 75% FL	MTR. EFF. 50% FL	MTR. EFF. @ SF	PWR. FACT. @ SF	PWR. FACT. 100% FL	PWR. FACT. 75% FL	PWR. FACT. 50% FL
7.5	230	1	K	1.3	35	43	263	7.7	60.5	8.1	NR	*88.4	*87.9	*73.6	*79	0.98	0.96	0.95	0.92
	208				24.3	28.8	175												
7.5	230	3	K	1.3	22	26	158	7.0	62.9	8.8	91.7	*91.7	*91.7	*90	*91.2	0.87	0.8	0.78	0.7
	460				11	13	79												
	575				8.8	10.4	65												
10	208	3	P	1.3	33.9	39.9	353	8.4	127.3	11.1	91.7	*91.7	*91.7	*90.2	*92	0.807	0.755	0.676	0.547
	230				29.4	34.7	320												
	460				14.7	17.3	160												
	575				11.8	13.9	120												
15	208	3	K	1.3	46.4	55.3	353	13.9	127.3	16.7	92.4	*92.4	*92.4	*92.3	*91.5	0.86	0.833	0.784	0.677
	230				42	50	320												
	460				21	25	160												
	575				16.8	20	120												

\*Motor Efficiency does not include seal and oil losses per IEC60034-30 5.1.3 Full Load Amps and Service Factor Amps do include these losses

# Electrical Data – S4M(X)P/S4MV(X)P/C4S(X)P

## MODEL: S4M(X)P/S4MV(X)P/C4S(X)P - Hydromatic® Premium Efficient (HPE) Submersible Solids Handling Pump

R.P.M.	1150			
MOTOR TYPE	ENCLOSED, OIL COOLED INDUCTION, VFD SUITABLE			
MOTOR DESIGN NEMA TYPE	A or B (3ø) EXCEEDS L (1ø)			
GENERAL INSULATION CLASS	H			
STATOR WINDING CLASS	H			
MAXIMUM STATOR TEMPERATURE RATING	356°F (180°)			
MOTOR PROTECTION	BI-METALLIC, TEMPERATURE SENSITIVE DISC, SIZED TO OPEN AT 130°C AND AUTOMATICALLY RESET @ 82°C DIFFERENTIAL, ONE IN SINGLE PHASE, THREE IN THREE PHASE			
ELECTRICAL RATINGS	HEAT SENSOR	24VDC 5AMPS	115VAC 5AMPS	230VAC 5AMPS
	SEAL FAIL	300VAC 5mA		
VOLTAGE TOLERANCE	±10%			

HP	VOL TAGE	PHASE	NEC CODE	SF	FULL LOAD AMPS	SF AMPS	LXOX RTR AMPS	RUN KW	START KVA	RUN KVA	NEMA REQ PREMIUM EFFICIENCY @ FL	MTR. EFF. 100% FL	MTR. EFF. 75% FL	MTR. EFF. 50% FL	MTR. EFF. @ SF	PWR. FACT. @ SF	PWR. FACT. 100% FL	PWR. FACT. 75% FL	PWR. FACT. 50% FL
3	208	3	P	1.3	13.3	17.7	111	2.8	39.8	4.8	89.5	*89.5	*87.8	*84.4	*89.5	0.67	0.59	0.5	0.38
	230				12	16	100												
	460				6	8	50												
	575				4.8	6.4	43												
5	208	3	J	1.3	16.6	21	111	4.4	39.8	6.0	89.5	*89.5	*89.5	*88.5	*89.2	0.782	0.733	0.66	0.536
	230				15	19	100												
	460				7.5	8.5	50												
	575				6	6.8	43												

\*Motor Efficiency does not include seal and oil losses per IEC60034-30 5.1.3 Full Load Amps and Service Factor Amps do include these losses

# Electrical Data – S4M(X)P/S4MV(X)P/S4P(X)P

## MODEL: S4M(X)P/S4MV(X)P/S4P(X)P - Hydromatic® Premium Efficient (HPE) Submersible Solids Handling Pump

R.P.M.	1750			
MOTOR TYPE	ENCLOSED, OIL COOLED INDUCTION, VFD SUITABLE			
MOTOR DESIGN NEMA TYPE	A or B (3ø) EXCEEDS L (1ø)			
GENERAL INSULATION CLASS	H			
STATOR WINDING CLASS	H			
MAXIMUM STATOR TEMPERATURE RATING	356°F (180°)			
MOTOR PROTECTION	BI-METALLIC, TEMPERATURE SENSITIVE DISC, SIZED TO OPEN AT 130°C AND AUTOMATICALLY RESET @ 82°C DIFFERENTIAL, ONE IN SINGLE PHASE, THREE IN THREE PHASE			
ELECTRICAL RATINGS	HEAT SENSOR	24VDC 5AMPS	115VAC 5AMPS	230VAC 5AMPS
	SEAL FAIL	300VAC 5mA		
VOLTAGE TOLERANCE	±10%			

HP	VOLTAGE	PHASE	NEC CODE	SF	FULL LOAD AMPS	SF AMPS	LOCKED ROTOR AMPS	RUN KW	START KVA	RUN KVA	NEMA REQ. PREMIUM EFFICIENCY @ FL	MTR. EFF. 100% FL	MTR. EFF. 75% FL	MTR. EFF. 50% FL	MTR. EFF. @ SF	PWR. FACT. @ SF	PWR. FACT. 100% FL	PWR. FACT. 75% FL	PWR. FACT. 50% FL
5	230	1	N	1.3	22	27	263	4.8	60.5	5.1	NR	*87.9	*85.4	*79.8	*88	0.955	0.94	0.92	0.87
	208				17.7	19.9	175												
5	230	3	P	1.3	16	18	158	4.5	62.9	6.4	89.5	*89.5	*89.5	*87	*90	0.81	0.7	0.6	0.54
	460				8	9	79												
	575				6.4	7.2	65												
7.5	230	1	K	1.3	35	43	263	7.7	60.5	8.1	NR	*88.4	*87.9	*73.6	*79	0.98	0.96	0.95	0.92
	208				24.3	28.8	175												
7.5	230	3	K	1.3	22	26	158	7.0	62.9	8.8	91.7	*91.7	*91.7	*90	*91.2	0.87	0.8	0.78	0.7
	460				11	13	79												
	575				8.8	10.4	65												
	208				33.9	39.9	353												
10	230	3	P	1.3	29.4	34.7	320	8.4	127.3	11.1	91.7	*91.7	*91.7	*90.2	*92	0.807	0.755	0.676	0.547
	460				14.7	17.3	160												
	575				11.8	13.9	120												
	208				46.4	55.3	353												
15	230	3	K	1.3	42	50	320	13.9	127.3	16.7	92.4	*92.4	*92.4	*92.3	*91.5	0.86	0.833	0.784	0.677
	460				21	25	160												
	575				16.8	20	120												
	208				46.4	55.3	353												

\*Motor Efficiency does not include seal and oil losses per IEC60034-30 5.1.3 Full Load Amps and Service Factor Amps do include these losses

# Electrical Data – S4HV(X)P

## MODEL: S4HV(X)P - Hydromatic® Premium Efficient (HPE) Submersible Solids Handling Pump

R.P.M.	3450			
MOTOR TYPE	ENCLOSED, OIL COOLED INDUCTION, VFD SUITABLE			
MOTOR DESIGN NEMA TYPE	A or B (3ø) EXCEEDS L (1ø)			
GENERAL INSULATION CLASS	H			
STATOR WINDING CLASS	H			
MAXIMUM STATOR TEMPERATURE RATING	356°F (180°)			
MOTOR PROTECTION	BI-METALLIC, TEMPERATURE SENSITIVE DISC, SIZED TO OPEN AT 130°C AND AUTOMATICALLY RESET @ 82°C DIFFERENTIAL, ONE IN SINGLE PHASE, THREE IN THREE PHASE			
ELECTRICAL RATINGS	HEAT SENSOR	24VDC 5AMPS	115VAC 5AMPS	230VAC 5AMPS
	SEAL FAIL	300VAC 5mA		
VOLTAGE TOLERANCE	±10%			

HP	VOLTAGE	PHASE	NEC CODE	SF	FULL LOAD AMPS	SF AMPS	LCKD. RTR. AMPS	RUN KW	START KVA	RUN KVA	NEMA REQ. PREMIUM EFFICIENCY @ FL	MTR. EFF. 100% FL	MTR. EFF. 75% FL	MTR. EFF. 50% FL	MTR. EFF. @ SF	PWR. FACT. @ SF	PWR. FACT. 100% FL	PWR. FACT. 75% FL	PWR. FACT. 50% FL
7.5	208	3	K	1.3	26.5	30.5	186	8.2	66.8	9.5	89.5	*89.5	*89.5	*88	*90	0.87	0.86	0.8	0.7
	230				24	27.6	168												
	460				12	13.8	84												
	575				9.6	11	67												
10	208	3	P	1.3	32	35.4	365	9.6	131.3	11.5	90.2	*90.2	*90.2	*89.6	*91	0.87	0.832	0.773	0.662
	230				29	32	330												
	460				14.5	16	165												
	575				11.6	12.8	135												
15	208	3	K	1.3	44.2	57.5	365	14.1	131.3	15.9	91	*91	*91	*91	*90.4	0.904	0.886	0.854	0.777
	230				40	52	330												
	460				20	26	165												
	575				16	20.8	135												

\*Motor Efficiency does not include seal and oil losses per IEC60034-30 5.1.3 Full Load Amps and Service Factor Amps do include these losses

# Electrical Data – S4K(X)P/H4Q(X)P/C4H(X)P

## MODEL: S4K(X)P/H4Q(X)P/C4H(X)P - Hydromatic® Premium Efficient (HPE) Submersible Solids Handling Pump

R.P.M.	1750			
MOTOR TYPE	ENCLOSED, OIL COOLED INDUCTION, VFD SUITABLE			
MOTOR DESIGN NEMA TYPE	A (3ø)			
GENERAL INSULATION CLASS	H			
STATOR WINDING CLASS	H			
MAXIMUM STATOR TEMPERATURE RATING	356°F (180°)			
MOTOR PROTECTION	BI-METALLIC, TEMPERATURE SENSITIVE DISC, SIZED TO OPEN AT 130°C AND AUTOMATICALLY RESET @ 93–71°C DIFFERENTIAL, THREE IN SERIES			
ELECTRICAL RATINGS	HEAT SENSOR	24VDC 5AMPS	115VAC 5AMPS	230VAC 5AMPS
	SEAL FAIL	300VAC 5mA		
VOLTAGE TOLERANCE	±10%			

HP	VOLTAGE	PHASE	NEC CODE	SF	FULL LOAD AMPS	SF AMPS	LOCKED ROTOR AMPS	RUN KW	START KVA	RUN KVA	NEMA REQ. PREMIUM EFFICIENCY @ FL	MTR. EFF. 100% FL	MTR. EFF. 75% FL	MTR. EFF. 50% FL	MTR. EFF. @ SF	PWR. FACT. @ SF	PWR. FACT. 100% FL	PWR. FACT. 75% FL	PWR. FACT. 50% FL
20	208	3	K	1.3	60.2	72.1	402	18.1	160.0	21.6	93	*93	*92	*90	*92	0.85	0.833	0.8	0.74
	230				54.4	65.2	402												
	460				27.2	32.6	201												
	575				21.8	26.1	157												
25	208	3	H	1.3	75.2	88.5	402	23.5	160.0	27.1	93.6	*93.6	*92	*90	*92	0.85	0.854	0.82	0.78
	230				68	80	402												
	460				34	40	201												
	575				27.2	32.0	157												
30	230	3	G	1.3	80.2	96.2	434	26.6	172.7	31.9	93.6	*93.6	*92	*90	*92	0.836	0.856	0.851	0.82
	460				40.1	48.1	217												
	575				32.1	38.5	178												
40	460	3	H	1.3	54.7	63.7	345	34.5	274.6	43.5	94.1	*94.1	*93	*91	*93	0.842	0.842	0.82	0.75
	575				43.8	51.0	265												

\*Motor Efficiency does not include seal and oil losses per IEC60034-30 5.1.3 Full Load Amps and Service Factor Amps do include these losses

# Electrical Data – S4L(X)P/S4LV(X)P/S6L(X)P/S8F(X)P

## MODEL: S4L(X)P/S4LV(X)P/S6L(X)P/S8F(X)P - Hydromatic® Premium Efficient (HPE) Submersible Solids Handling Pump

R.P.M.	870			
MOTOR TYPE	ENCLOSED, OIL COOLED INDUCTION, VFD SUITABLE			
MOTOR DESIGN NEMA TYPE	A (3Ø)			
GENERAL INSULATION CLASS	H			
STATOR WINDING CLASS	H			
MAXIMUM STATOR TEMPERATURE RATING	356°F (180°)			
MOTOR PROTECTION	BI-METALLIC, TEMPERATURE SENSITIVE DISC, SIZED TO OPEN AT 130°C AND AUTOMATICALLY RESET @ 93-71°C DIFFERENTIAL, THREE IN SERIES			
ELECTRICAL RATINGS	HEAT SENSOR	24VDC 5AMPS	115VAC 5AMPS	230VAC 5AMPS
	SEAL FAIL	300VAC 5mA		
VOLTAGE TOLERANCE	±10%			

HP	VOLTAGE	PHASE	NEC CODE	SF	FULL LOAD AMPS	SF AMPS	LOCKED ROTOR AMPS	RUN KW	START KVA	RUN KVA	NEMA REQ PREMIUM EFFICIENCY @ FL	MTR. EFF. 100% FL	MTR. EFF. 75% FL	MTR. EFF. 50% FL	MTR. EFF. @ SF	PWR. FACT. @ SF	PWR. FACT. 100% FL	PWR. FACT. 75% FL	PWR. FACT. 50% FL
5	208	3	L	1.3	27.5	29.4	121	7.2	48.1	7.9	NR	*87.5	*86	*84	*86	0.56	0.51	0.44	0.4
	230				24.9	26.6	121												
	460				12.45	13.3	60.5												
	575				9.9	10.6	49												
7.5	208	3	H	1.3	31.0	37.6	121	9.3	48.1	11.1	NR	*88.5	*87	*85	*87	0.63	0.58	0.52	0.44
	230				28	34	121												
	460				14	17	60.5												
	575				11.2	13.6	49												

\*Motor Efficiency does not include seal and oil losses per IEC60034-30 5.1.3 Full Load Amps and Service Factor Amps do include these losses

# Electrical Data – S4L(X)P/S4B(X)P/S6L(X)P

## MODEL: S4L(X)P/S4B(X)P/S6L(X)P - Hydromatic® Premium Efficient (HPE) Submersible Solids Handling Pump

R.P.M.	1150			
MOTOR TYPE	ENCLOSED, OIL COOLED INDUCTION, VFD SUITABLE			
MOTOR DESIGN NEMA TYPE	A (3ø)			
GENERAL INSULATION CLASS	H			
STATOR WINDING CLASS	H			
MAXIMUM STATOR TEMPERATURE RATING	356°F (180°)			
MOTOR PROTECTION	BI-METALLIC, TEMPERATURE SENSITIVE DISC, SIZED TO OPEN AT 130°C AND AUTOMATICALLY RESET @ 93-71°C DIFFERENTIAL, THREE IN SERIES			
ELECTRICAL RATINGS	HEAT SENSOR	24VDC 5AMPS	115VAC 5AMPS	230VAC 5AMPS
	SEAL FAIL	300VAC 5mA		
VOLTAGE TOLERANCE	±10%			

HP	VOLTAGE	PHASE	NEC CODE	SF	FULL LOAD AMPS	SF AMPS	LOCKED ROTOR AMPS	RUN KW	START KVA	RUN KVA	NEMA REQ. PREMIUM EFFICIENCY @ FL	MTR. EFF. 100% FL	MTR. EFF. 75% FL	MTR. EFF. 50% FL	MTR. EFF. @ SF	PWR. FACT. @ SF	PWR. FACT. 100% FL	PWR. FACT. 75% FL	PWR. FACT. 50% FL
7.5	208	3	L	1.3	27.6	31.4	174	7.3	69.2	9.9	91	*91	*90	*89	*90	0.8	0.77	0.718	0.58
	230				25	28.4	174												
	460				12.5	14.2	87												
	575				10.0	11.4	69												
10	208	3	H	1.3	34.3	40.3	174	9.2	69.2	12.3	91	*91	*90	*89	*90	0.83	0.815	0.77	0.75
	230				31	36.4	174												
	460				15.5	18.2	87												
	575				12.4	14.6	69												
15	208	3	J	1.3	46.2	54.4	275	13.8	109.4	16.6	91.7	*91.7	*91.0	*89	*91.0	0.83	0.845	0.76	0.68
	230				41.8	49.2	275												
	460				20.9	24.6	137.5												
	575				16.7	19.7	115												
20	208	3	J	1.3	58.6	64.1	394	17.8	156.8	21.1	91.7	*91.7	*91.0	*89	*91.0	0.86	0.85	0.83	0.74
	230				53	58	394												
	460				26.5	29	197												
	575				21.2	23.2	163												

\*Motor Efficiency does not include seal and oil losses per IEC60034-30 5.1.3 Full Load Amps and Service Factor Amps do include these losses

# Electrical Data – S4L(X)P/S4LV(X)P/S4B(X)P/ S6L(X)P/S8F(X)P

## MODEL: S4L(X)P/S4LV(X)P/S4B(X)P/S6L(X)P/S8F(X)P - Hydromatic® Premium Efficient (HPE) Submersible Solids Handling Pump

R.P.M.	1750			
MOTOR TYPE	ENCLOSED, OIL COOLED INDUCTION, VFD SUITABLE			
MOTOR DESIGN NEMA TYPE	A (3ø)			
GENERAL INSULATION CLASS	H			
STATOR WINDING CLASS	H			
MAXIMUM STATOR TEMPERATURE RATING	356°F (180°)			
MOTOR PROTECTION	BI-METALLIC, TEMPERATURE SENSITIVE DISC, SIZED TO OPEN AT 130°C AND AUTOMATICALLY RESET @ 93–71°C DIFFERENTIAL, THREE IN SERIES			
ELECTRICAL RATINGS	HEAT SENSOR	24VDC 5AMPS	115VAC 5AMPS	230VAC 5AMPS
	SEAL FAIL	300VAC 5mA		
VOLTAGE TOLERANCE	±10%			

HP	VOLTAGE	PHASE	NEC CODE	SF	FULL LOAD AMPS	SF AMPS	LOCKED ROTOR AMPS	RUN KW	START KVA	RUN KVA	NEMA REQ. PREMIUM EFFICIENCY @ FL	MTR. EFF. 100% FL	MTR. EFF. 75% FL	MTR. EFF. 50% FL	MTR. EFF. @ SF	PWR. FACT. @ SF	PWR. FACT. 100% FL	PWR. FACT. 75% FL	PWR. FACT. 50% FL
20	208	3	K	1.3	60.2	72.1	402	18.1	160.0	21.6	93	*93	*92	*90	*92	0.85	0.833	0.8	0.74
	230				54.4	65.2	402												
	460				27.2	32.6	201												
	575				21.8	26.1	157												
25	208	3	H	1.3	75.2	88.5	402	23.5	160.0	27.1	93.6	*93.6	*92	*90	*92	0.85	0.854	0.82	0.78
	230				68	80	402												
	460				34	40	201												
	575				27.2	32.0	157												
30	230	3	G	1.3	80.2	96.2	434	26.6	172.7	31.9	93.6	*93.6	*92	*90	*92	0.836	0.856	0.851	0.82
	460				40.1	48.1	217												
	575				32.1	38.5	178												
40	460	3	H	1.3	54.7	63.7	345	34.5	274.6	43.5	94.1	*94.1	*93	*91	*93	0.842	0.842	0.82	0.75
	575				43.8	51.0	265												
50	460	3	G	1.3	70.5	98.5	387	43.0	308.0	56.1	94.5	*94.5	*93	*91	*93	0.874	0.877	0.865	0.82
	575				56.4	78.8	310												

\*Motor Efficiency does not include seal and oil losses per IEC60034-30 5.1.3 Full Load Amps and Service Factor Amps do include these losses



# Electrical Data – S4LV(X)P/S8F(X)P

## MODEL: S4LV(X)P/S8F(X)P - Hydromatic® Premium Efficient (HPE) Submersible Solids Handling Pump

R.P.M.	1150			
MOTOR TYPE	ENCLOSED, OIL COOLED INDUCTION, VFD SUITABLE			
MOTOR DESIGN NEMA TYPE	A (3ø)			
GENERAL INSULATION CLASS	H			
STATOR WINDING CLASS	H			
MAXIMUM STATOR TEMPERATURE RATING	356°F (180°)			
MOTOR PROTECTION	BI-METALLIC, TEMPERATURE SENSITIVE DISC, SIZED TO OPEN AT 130°C AND AUTOMATICALLY RESET @ 93–71°C DIFFERENTIAL, THREE IN SERIES			
ELECTRICAL RATINGS	HEAT SENSOR	24VDC 5AMPS	115VAC 5AMPS	230VAC 5AMPS
	SEAL FAIL	300VAC 5mA		
VOLTAGE TOLERANCE	±10%			

HP	VOLTAGE	PHASE	NEC CODE	SF	FULL LOAD AMPS	SF AMPS	LOCKD. RTR AMPS	RUN KW	START KVA	RUN KVA	NEMA REQ. PREMIUM EFFICIENCY @ FL	MTR. EFF. 100% FL	MTR. EFF. 75% FL	MTR. EFF. 50% FL	MTR. EFF. @ SF	PWR. FACT. @ SF	PWR. FACT. 100% FL	PWR. FACT. 75% FL	PWR. FACT. 50% FL
7.5	208	3	L	1.3	27.6	31.4	174	7.3	69.2	9.9	91	*91	*90	*89	*90	0.8	0.77	0.718	0.58
	230				25	28.4	174												
	460				12.5	14.2	87												
	575				10.0	11.4	69												
10	208	3	H	1.3	34.3	40.3	174	9.2	69.2	12.3	91	*91	*90	*89	*90	0.83	0.815	0.77	0.75
	230				31	36.4	174												
	460				15.5	18.2	87												
	575				12.4	14.6	69												
15	208	3	J	1.3	46.2	54.4	275	13.8	109.4	16.6	91.7	*91.7	*91.0	*89	*91.0	0.83	0.845	0.76	0.68
	230				41.8	49.2	275												
	460				20.9	24.6	137.5												
	575				16.7	19.7	115												

\*Motor Efficiency does not include seal and oil losses per IEC60034-30 5.1.3 Full Load Amps and Service Factor Amps do include these losses

# Electrical Data – S4B(X)P

## MODEL: S4B(X)P - Hydromatic® Premium Efficient (HPE) Submersible Solids Handling Pump

R.P.M.	870			
MOTOR TYPE	ENCLOSED, OIL COOLED INDUCTION, VFD SUITABLE			
MOTOR DESIGN NEMA TYPE	A (3Ø)			
GENERAL INSULATION CLASS	H			
STATOR WINDING CLASS	H			
MAXIMUM STATOR TEMPERATURE RATING	356°F (180°)			
MOTOR PROTECTION	BI-METALLIC, TEMPERATURE SENSITIVE DISC, SIZED TO OPEN AT 130°C AND AUTOMATICALLY RESET @ 93-71°C DIFFERENTIAL, THREE IN SERIES			
ELECTRICAL RATINGS	HEAT SENSOR	24VDC 5AMPS	115VAC 5AMPS	230VAC 5AMPS
	SEAL FAIL	300VAC 5mA		
VOLTAGE TOLERANCE	±10%			

HP	VOLTAGE	PHASE	NEC CODE	SF	FULL LOAD AMPS	SF AMPS	LOCKED ROTOR AMPS	RUN KW	START KVA	RUN KVA	NEMA REQ. PREMIUM EFFICIENCY @ FL	MTR. EFF. 100% FL	MTR. EFF. 75% FL	MTR. EFF. 50% FL	MTR. EFF. @ SF	PWR. FACT. @ SF	PWR. FACT. 100% FL	PWR. FACT. 75% FL	PWR. FACT. 50% FL
5	208	3	L	1.3	27.5	29.4	121	7.2	48.1	7.9	NR	*87.5	*86	*84	*86	0.56	0.51	0.44	0.4
	230				24.9	26.6	121												
	460				12.45	13.3	60.5												
	575				9.9	10.6	49												
7.5	208	3	H	1.3	31.0	37.6	121	9.3	48.1	11.1	NR	*88.5	*87	*85	*87	0.63	0.58	0.52	0.44
	230				28	34	121												
	460				14	17	60.5												
	575				11.2	13.6	49												
10	208	3	K	1.3	39.8	47.5	213	11.4	84.8	14.3	NR	*89.5	*88	*86	*88	0.695	0.64	0.58	0.5
	230				36	43	213												
	460				18	21.5	106.5												
	575				14.4	17.2	87												

\*Motor Efficiency does not include seal and oil losses per IEC60034-30 5.1.3 Full Load Amps and Service Factor Amps do include these losses

# Electrical Data – S6A(X)P

## MODEL: S6A(X)P - Hydromatic® Premium Efficient (HPE) Submersible Solids Handling Pump

R.P.M.	870			
MOTOR TYPE	ENCLOSED, OIL COOLED INDUCTION, VFD SUITABLE			
MOTOR DESIGN NEMA TYPE	A (3ø)			
GENERAL INSULATION CLASS	H			
STATOR WINDING CLASS	H			
MAXIMUM STATOR TEMPERATURE RATING	356°F (180°)			
MOTOR PROTECTION	BI-METALLIC, TEMPERATURE SENSITIVE DISC, SIZED TO OPEN AT 130°C AND AUTOMATICALLY RESET @ 93–71°C DIFFERENTIAL, THREE IN SERIES			
ELECTRICAL RATINGS	HEAT SENSOR	24VDC 5AMPS	115VAC 5AMPS	230VAC 5AMPS
	SEAL FAIL	300VAC 5mA		
VOLTAGE TOLERANCE	±10%			

HP	VOLTAGE	PHASE	NEC CODE	SF	FULL LOAD AMPS	SF AMPS	LOCKD. RTR. AMPS	RUIN KW	START KVA	RUIN KVA	NEMA REQ. PREMIUM EFFICIENCY @ FL	MTR. EFF. 100% FL	MTR. EFF. 75% FL	MTR. EFF. 50% FL	MTR. EFF. @ SF	PWR. FACT. @ SF	PWR. FACT. 100% FL	PWR. FACT. 75% FL	PWR. FACT. 50% FL
5	208	3	L	1.3	27.5	29.4	121	7.2	48.1	7.9	NR	*87.5	*86	*84	*86	0.56	0.51	0.44	0.4
	230				24.9	26.6	121												
	460				12.45	13.3	60.5												
	575				9.9	10.6	49												
7.5	208	3	H	1.3	31.0	37.6	121	9.3	48.1	11.1	NR	*88.5	*87	*85	*87	0.63	0.58	0.52	0.44
	230				28	34	121												
	460				14	17	60.5												
	575				11.2	13.6	49												
10	208	3	K	1.3	39.8	47.5	213	11.4	84.8	14.3	NR	*89.5	*88	*86	*88	0.695	0.64	0.58	0.5
	230				36	43	213												
	460				18	21.5	106.5												
	575				14.4	17.2	87												
15	208	3	G	1.3	47.5	50.9	213	15.7	84.8	17.1	NR	*89.5	*88	*86	*88	0.74	0.72	0.67	0.58
	230				43	46	213												
	460				21.5	23	106.5												
	575				17.2	18.4	87												

\*Motor Efficiency does not include seal and oil losses per IEC60034-30 5.1.3 Full Load Amps and Service Factor Amps do include these losses

# Electrical Data – S6A(X)P

## MODEL: S6A(X)P - Hydromatic® Premium Efficient (HPE) Submersible Solids Handling Pump

R.P.M.	1150			
MOTOR TYPE	ENCLOSED, OIL COOLED INDUCTION, VFD SUITABLE			
MOTOR DESIGN NEMA TYPE	A (3Ø)			
GENERAL INSULATION CLASS	H			
STATOR WINDING CLASS	H			
MAXIMUM STATOR TEMPERATURE RATING	356°F (180°)			
MOTOR PROTECTION	BI-METALLIC, TEMPERATURE SENSITIVE DISC, SIZED TO OPEN AT 130°C AND AUTOMATICALLY RESET @ 93–71°C DIFFERENTIAL, THREE IN SERIES			
ELECTRICAL RATINGS	HEAT SENSOR	24VDC 5AMPS	115VAC 5AMPS	230VAC 5AMPS
	SEAL FAIL	300VAC 5mA		
VOLTAGE TOLERANCE	±10%			

HP	VOLTAGE	PHASE	NEC CODE	SF	FULL LOAD AMPS	SF AMPS	LOCKED ROTOR AMPS	RUN KW	START KVA	RUN KVA	NEMA REQ PREMIUM EFFICIENCY @ FL	MTR EFF. 100% FL	MTR EFF. 75% FL	MTR EFF. 50% FL	MTR EFF. @ SF	PWR FACT. @ SF	PWR FACT. 100% FL	PWR FACT. 75% FL	PWR FACT. 50% FL
7.5	208	3	L	1.3	27.6	31.4	174	7.3	69.2	9.9	91	*91	*90	*89	*90	0.8	0.77	0.718	0.58
	230				25	28.4	174												
	460				12.5	14.2	87												
	575				10.0	11.4	69												
10	208	3	H	1.3	34.3	40.3	174	9.2	69.2	12.3	91	*91	*90	*89	*90	0.83	0.815	0.77	0.75
	230				31	36.4	174												
	460				15.5	18.2	87												
	575				12.4	14.6	69												
15	208	3	J	1.3	46.2	54.4	275	13.8	109.4	16.6	91.7	*91.7	*91.0	*89	*91.0	0.83	0.845	0.76	0.68
	230				41.8	49.2	275												
	460				20.9	24.6	137.5												
	575				16.7	19.7	115												
20	208	3	J	1.3	58.6	64.1	394	17.8	156.8	21.1	91.7	*91.7	*91.0	*89	*91.0	0.86	0.85	0.83	0.74
	230				53	58	394												
	460				26.5	29	197												
	575				21.2	23.2	163												
25	208	3	G	1.3	71.9	81.8	394	21.7	156.8	25.9	93	*93	*92.5	*90	*92.5	0.84	0.86	0.85	0.79
	230				65	74	394												
	460				32.5	37	197												
	575				26.0	29.6	163												

\*Motor Efficiency does not include seal and oil losses per IEC60034-30 5.1.3 Full Load Amps and Service Factor Amps do include these losses

# Electrical Data – S6A(X)P

## MODEL: S6A(X)P - Hydromatic® Premium Efficient (HPE) Submersible Solids Handling Pump

R.P.M.	1750			
MOTOR TYPE	ENCLOSED, OIL COOLED INDUCTION, VFD SUITABLE			
MOTOR DESIGN NEMA TYPE	A (3ø)			
GENERAL INSULATION CLASS	H			
STATOR WINDING CLASS	H			
MAXIMUM STATOR TEMPERATURE RATING	356°F (180°)			
MOTOR PROTECTION	BI-METALLIC, TEMPERATURE SENSITIVE DISC, SIZED TO OPEN AT 130°C AND AUTOMATICALLY RESET @ 93–71°C DIFFERENTIAL, THREE IN SERIES			
ELECTRICAL RATINGS	HEAT SENSOR	24VDC 5AMPS	115VAC 5AMPS	230VAC 5AMPS
	SEAL FAIL	300VAC 5mA		
VOLTAGE TOLERANCE	±10%			

HP	VOLTAGE	PHASE	NEC CODE	SF	FULL LOAD AMPS	SF AMPS	LOCKD. RTR AMPS	RUN KW	START KVA	RUN KVA	NEMA REQ. PREMIUM EFFICIENCY @ FL	MTR. EFF. 100% FL	MTR. EFF. 75% FL	MTR. EFF. 50% FL	MTR. EFF. @ SF	PWR. FACT. @ SF	PWR. FACT. 100% FL	PWR. FACT. 75% FL	PWR. FACT. 50% FL
25	208	3	H	1.3	75.2	88.5	402	23.5	160.0	27.1	93.6	*93.6	*92	*90	*92	0.85	0.854	0.82	0.78
	230				68	80	402												
	460				34	40	201												
	575				27.2	32.0	157												
30	230	3	G	1.3	80.2	96.2	434	26.6	172.7	31.9	93.6	*93.6	*92	*90	*92	0.836	0.856	0.851	0.82
	460				40.1	48.1	217												
	575				32.1	38.5	178												
40	460	3	H	1.3	54.7	63.7	345	34.5	274.6	43.5	94.1	*94.1	*93	*91	*93	0.842	0.842	0.82	0.75
	575				43.8	51.0	265												
50	460	3	G	1.3	70.5	98.5	387	43.0	308.0	56.1	94.5	*94.5	*93	*91	*93	0.874	0.877	0.865	0.82
	575				56.4	78.8	310												

\*Motor Efficiency does not include seal and oil losses per IEC60034-30 5.1.3 Full Load Amps and Service Factor Amps do include these losses

# Electrical Data – S4T(X)P/S8L(X)P/S8LA(X)P/S12L(X)P

## MODELS: S4T(X)P/S8L(X)P/S8LA(X)P/S12L(X)P - Hydromatic® Premium Efficient (HPE) Submersible Solids Handling Pump

RPM	1750			
MOTOR TYPE	ENCLOSED, OIL COOLED INDUCTION, VFD SUITABLE			
MOTOR DESIGN TYPE	A (3ø)			
GENERAL INSULATION CLASS	H			
STATOR WINDING CLASS	H			
MAXIMUM STATOR TEMPERATURE	356°F (180°)			
MOTOR PROTECTION	BI-METALLIC, TEMPERATURE SENSITIVE DISC, SIZED TO OPEN AT 150°C AND AUTOMATICALLY RESET @ 117–89°C DIFFERENTIAL, THREE IN THREE PHASE			
ELECTRICAL RATINGS	HEAT	24 VDC	115 VAC	230 VAC
	SENSOR	5 AMPS	5 AMPS	5 AMPS
	SEAL FAILURE	300 VAC 5 Ma		
VOLTAGE TOLERANCE	±10%			

HP	VOLTAGE	PHASE	NEMA CODE	SF	NAME PLATE AMPS	SF AMPS	LOCK ROTOR AMPS	RUN KW	START KVA	RUN KVA	NEMA REQ. PREMIUM EFFICIENCY AT FL	*MOTOR EFF AT SF	*MOTOR EFF AT FL	*MOTOR EFF AT 75% FL	*MOTOR EFF AT 50% FL	POWER FACTOR AT SF	POWER FACTOR AT FL	POWER FACTOR AT 75% FL	POWER FACTOR AT 50% FL
75	460	3	G	1.3	96	120	570	67.8	453.6	76.4	95.4	94	95.4	94	93	0.88	0.887	0.886	0.84
	575				76.8	96.0	456												
100	460	3	H	1.3	125	155	826	88.1	657.5	99.5	95.4	94	95.4	94	93	0.884	0.886	0.877	0.845
	575				100.0	124.0	661												
125	460	3	H	1.3	152	190	1137	107.4	846.5	121.4	95.4	94.1	95.4	94.1	93.9	0.882	0.885	0.87	0.82
	575				122.0	152.0	851												
150	460	3	J	1.3	185	230	1521	128.8	1159.9	147.2	95.8	94.2	95.8	94.2	93.9	0.878	0.875	0.86	0.82
	575				148.0	184.0	1166												

\*Motor efficiency does not include seal and oil losses per IEC60034-30 5.1.3. Full load amps and service factor amps do include these losses

# Electrical Data – S8L(X)P

## MODELS: S8L(X)P - Hydromatic® Premium Efficient (HPE) Submersible Solids Handling Pump

RPM	1150			
MOTOR TYPE	ENCLOSED, OIL COOLED INDUCTION, VFD SUITABLE			
MOTOR DESIGN NEMA TYPE	A (3ø)			
GENERAL INSULATION CLASS	H			
STATOR WINDING CLASS	H			
MAXIMUM STATOR TEMPERATURE	356°F (180°)			
MOTOR PROTECTION	BI-METALLIC, TEMPERATURE SENSITIVE DISC, SIZED TO OPEN AT 150°C AND AUTOMATICALLY RESET @ 117–89°C DIFFERENTIAL, THREE IN THREE PHASE			
ELECTRICAL RATINGS	HEAT	24 VDC	115 VAC	230 VAC
	SENSOR	5 AMPS	5 AMPS	5 AMPS
	SEAL FAILURE	300 VAC 5 Ma		
VOLTAGE TOLERANCE	±10%			

HP	VOLTAGE	PHASE	NEMA CODE	SF	NAME PLATE AMPS	SF AMPS	LOCK ROTOR AMPS	RUN KW	START KVA	RUN KVA	NEMA REQ PREMIUM EFFICIENCY AT FL	*MOTOR EFF AT SF	*MOTOR EFF AT FL	*MOTOR EFF AT 75% FL	*MOTOR EFF AT 50% FL	POWER FACTOR AT SF	POWER FACTOR AT FL	POWER FACTOR AT 75% FL	POWER FACTOR AT 50% FL
40	460	3	K	1.3	54	63	420	36.5	349.2	43.0	94.1	93	94.1	93	91.5	0.865	0.85	0.84	0.83
	575				43.2	50.4	351												
50	460	3	H	1.3	64.0	79.0	420	44.1	349.2	50.9	94.1	93.1	94.1	93	91.6	0.865	0.865	0.85	0.84
	575				51.2	63.2	351												
60	460	3	J	1.3	78.0	95.0	503	54.0	426.7	62.1	94.5	93.2	94.5	93.2	91.8	0.875	0.87	0.86	0.85
	575				62.4	76.0	429												

\*Motor efficiency does not include seal and oil losses per IEC60034-30 5.1.3. Full load amps and service factor amps do include these losses

# Electrical Data – S8L(X)P

## MODELS: S8L(X)P - Hydromatic® Premium Efficient (HPE) Submersible Solids Handling Pump

RPM	870			
MOTOR TYPE	ENCLOSED, OIL COOLED INDUCTION, VFD SUITABLE			
MOTOR DESIGN NEMA TYPE	A (3ø)			
GENERAL INSULATION CLASS	H			
STATOR WINDING CLASS	H			
MAXIMUM STATOR TEMPERATURE	356°F (180°)			
MOTOR PROTECTION	BI-METALLIC, TEMPERATURE SENSITIVE DISC, SIZED TO OPEN AT 150°C AND AUTOMATICALLY RESET @ 117-89°C DIFFERENTIAL, THREE IN THREE PHASE			
ELECTRICAL RATINGS	HEAT	24 VDC	115 VAC	230 VAC
	SENSOR	5 AMPS	5 AMPS	5 AMPS
	SEAL FAILURE	300 VAC 5 Ma		
VOLTAGE TOLERANCE	±10%			

HP	VOL TAGE	PHASE	NEMA CODE	SF	NAME PLATE AMPS	SF AMPS	LOCK ROTOR AMPS	RUN KW	START KVA	RUN KVA	NEMA REQ PREMIUM EFFICIENCY AT FL	*MOTOR EFF AT SF	*MOTOR EFF AT FL	*MOTOR EFF AT 75% FL	*MOTOR EFF AT 50% FL	POWER FACTOR AT SF	POWER FACTOR AT FL	POWER FACTOR AT 75% FL	POWER FACTOR AT 50% FL
20	208	3	J	1.3	75.0	92.0	413.5	19.4	148.8	27.0	NR	90.2	89	86	84	0.77	0.72	0.67	0.65
	230				67.8	83.2	374												
	460				33.9	41.6	187												
	575				27.1	33.3	147												
25	208	3	G	1.3	91.0	120.0	413.5	25.2	148.8	32.7	NR	89	90.2	89	86	0.79	0.77	0.72	0.67
	230				82.3	108.5	374												
	460				41.2	54.2	187												
	575				32.9	43.4	147												

\*Motor efficiency does not include seal and oil losses per IEC60034-30 5.1.3. Full load amps and service factor amps do include these losses



# Electrical Data – S12L(X)P

## MODELS: S12L(X)P - Hydromatic® Premium Efficient (HPE) Submersible Solids Handling Pump

RPM	1150			
MOTOR TYPE	ENCLOSED, OIL COOLED INDUCTION, VFD SUITABLE			
MOTOR DESIGN NEMA TYPE	A (3 $\phi$ )			
GENERAL INSULATION CLASS	H			
STATOR WINDING CLASS	H			
MAXIMUM STATOR TEMPERATURE	356°F (180°)			
MOTOR PROTECTION	BI-METALLIC, TEMPERATURE SENSITIVE DISC, SIZED TO OPEN AT 150°C AND AUTOMATICALLY RESET @ 117–89°C DIFFERENTIAL, THREE IN THREE PHASE			
ELECTRICAL RATINGS	HEAT	24 VDC	115 VAC	230 VAC
	SENSOR	5 AMPS	5 AMPS	5 AMPS
	SEAL FAILURE	300 VAC 5 Ma		
VOLTAGE TOLERANCE	±10%			

HP	VOLTAGE	PHASE	NEMA CODE	SF	NAME PLATE AMPS	SF AMPS	LOCK ROTOR AMPS	RUN KW	START KVA	RUN KVA	NEMA REQ. PREMIUM EFFICIENCY AT FL	*MOTOR EFF AT SF	*MOTOR EFF AT FL	*MOTOR EFF AT 75% FL	*MOTOR EFF AT 50% FL	POWER FACTOR AT SF	POWER FACTOR AT FL	POWER FACTOR AT 75% FL	POWER FACTOR AT 50% FL
40	460	3	K	1.3	54	63	420	36.5	349.2	43.0	94.1	93	94.1	93	91.5	0.865	0.85	0.84	0.83
	575				43.2	50.4	351												
50	460	3	H	1.3	64.0	79.0	420	44.1	349.2	50.9	94.1	93.1	94.1	93	91.6	0.865	0.865	0.85	0.84
	575				51.2	63.2	351												
60	460	3	J	1.3	78.0	95.0	503	54.0	426.7	62.1	94.5	93.2	94.5	93.2	91.8	0.875	0.87	0.86	0.85
	575				62.4	76.0	429												
75	460	3	G	1.3	94	115	503	65.5	426.7	74.8	94.5	93.4	94.5	93.2	91.9	0.88	0.875	0.87	0.86
	575				75.2	92.0	429												

\*Motor efficiency does not include seal and oil losses per IEC60034-30 5.1.3. Full load amps and service factor amps do include these losses

# Electrical Data – S12L(X)P

## MODELS: S12L(X)P - Hydromatic® Premium Efficient (HPE) Submersible Solids Handling Pump

RPM	870			
MOTOR TYPE	ENCLOSED, OIL COOLED INDUCTION, VFD SUITABLE			
MOTOR DESIGN NEMA TYPE	A (3ø)			
GENERAL INSULATION CLASS	H			
STATOR WINDING CLASS	H			
MAXIMUM STATOR TEMPERATURE	356°F (180°)			
MOTOR PROTECTION	BI-METALLIC, TEMPERATURE SENSITIVE DISC, SIZED TO OPEN AT 150°C AND AUTOMATICALLY RESET @ 117–89°C DIFFERENTIAL, THREE IN THREE PHASE			
ELECTRICAL RATINGS	HEAT	24 VDC	115 VAC	230 VAC
	SENSOR	5 AMPS	5 AMPS	5 AMPS
	SEAL FAILURE	300 VAC 5 Ma		
VOLTAGE TOLERANCE	±10%			

HP	VOLTAGE	PHASE	NEMA CODE	SF	NAME PLATE AMPS	SF AMPS	LOCK ROTOR AMPS	RUN KW	START KVA	RUN KVA	NEMA REQ. PREMIUM EFFICIENCY AT FL	*MOTOR EFF AT SF	*MOTOR EFF AT FL	*MOTOR EFF AT 75% FL	*MOTOR EFF AT 50% FL	POWER FACTOR AT SF	POWER FACTOR AT FL	POWER FACTOR AT 75% FL	POWER FACTOR AT 50% FL
20	208	3	J	1.3	75.0	92.0	413.5	19.4	148.8	27.0	NR	90.2	89	86	84	0.77	0.72	0.67	0.65
	230				67.8	83.2	374												
	460				33.9	41.6	187												
	575				27.1	33.3	147												
25	208	3	G	1.3	91.0	120.0	413.5	25.2	148.8	32.7	NR	89	90.2	89	86	0.79	0.77	0.72	0.67
	230				82.3	108.5	374												
	460				41.2	54.2	187												
	575				32.9	43.4	147												
30	230	3	L	1.3	116.0	132.0	700	37.8	278.5	46.2	NR	89.5	91.7	89.5	86	0.85	0.82	0.76	0.69
	460				58.0	66.0	350												
	575				46.4	52.8	263												
40	460	3	H	1.3	61	84.5	350	39.8	278.5	48.5	NR	89.5	91.7	89.5	86	0.85	0.82	0.76	0.69
	575				48.8	67.6	263												

\*Motor efficiency does not include seal and oil losses per IEC60034-30 5.1.3. Full load amps and service factor amps do include these losses