



Certificate of Compliance

Certificate: 70159918

Master Contract: 271268

Project: 70159918

Date Issued: 2018-05-18

Issued to: **C.R.I Pumps Private Limited**
7/46-1 Keeranatham Road
Saravanampatty Post
Coimbatore, Tamil Nadu, 22 641 035
INDIA
Attention: Mr. Kandasami VP

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only, and



Issued by: *Shaan Das Gupta*
Shaan Das Gupta

PRODUCTS

Class 3851 46 LIQUID PUMPS Component
Class 3851 86 LIQUID PUMPS Component - Certified to US Standards

Component open submersible pump with following model number and ratings with motors rated at 115/230/460V, 60 Hz, Class F Insulation, Duty S1 are as follows:

Pump Model	Motor Rating		Hz	Head in Feet	Discharge in
	KW	HP			GPM
S4P & S4V -5/14	0.37	0.5	60	256	5
S4P & S4V -5/19	0.55	0.75	60	361	5
S4P-5/22	0.75	1.0	60	420	5
S4P-5/30	1.1	1.5	60	587	5
S4P & S4V -7/11	0.37	0.5	60	256	7
S4P & S4V -7/15	0.55	0.75	60	361	7



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S4P & S4V -7/18	0.75	1.0	60	443	7
S4P-7 /22	1.1	1.5	60	548	7
S4P-7/26	1.5	2.0	60	646	7
S4P & S4V -10/8	0.37	0.5	60	190	10
S4P & S4V -10/11	0.55	0.75	60	263	10
S4P & S4V -10/13	0.75	1.0	60	322	10
S4P & S4V -10/17	1.1	1.5	60	422	10
S4P-10/22	1.5	2.0	60	547	10
S4P & S4V -15/06	0.37	0.5	60	108	15
S4P & S4V -15/08	0.55	0.75	60	150	15
S4P & S4V -15/10	0.75	1.0	60	190	15
S4P & S4V -15/12	1.1	1.5	60	246	15
S4P-15/15	1.5	2.0	60	312	15
S4P & S4V -20/06	0.55	0.75	60	148	20
S4P & S4V -20/07	0.75	1.0	60	184	20
S4P & S4V -20/10	1.1	1.5	60	236	20
S4P-20/12	1.5	2.0	60	345	20
S4P & S4V -25/05	0.75	1.0	60	125	25
S4P & S4V -25/07	1.1	1.5	60	181	25
S4P & S4V -25/09	1.5	2.0	60	232	25

Pump Model	Motor Rating		Discharge Pipe	Head in Feet	Discharge in GPM
	KW	HP			
S4S-5/09	0.37	0.5	1"	180	5
S4S-5/13	0.37	0.5	1"	258	5
S4S-5/18	0.55	0.75	1"	349	5
S4S-5/22	0.75	1	1"	433	5
S4S-5/26	1.1	1.5	1"	510	5
S4S-5/31	1.1	1.5	1"	562	5
S4S-5/39	1.5	2	1"	761	5
S4S-7/08	0.37	0.5	1"	165	7
S4S-7/11	0.37	0.5	1"	192	7
S4S-7/15	0.55	0.75	1"	270	7
S4S-7/19	0.75	1	1"	364	7
S4S-7/26	1.1	1.5	1"	482	7
S4S-7/32	1.5	2	1"	590	7
S4S-10/06	0.37	0.5	1¼"	120	10
S4S-10/09	0.37	0.5	1¼"	180	10
S4S-10/12	0.55	0.75	1¼"	200	10
S4S-10/15	0.75	1	1¼"	277	10



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S4S-10/21	1.1	1.5	1¼"	386	10
S4S-10/27	1.5	2	1¼"	535	10
S4S-16/05	0.37	0.5	1¼"	110	16
S4S-16/08	0.55	0.75	1¼"	170	16
S4S-16/10	0.75	1	1¼"	220	16
S4S-16/14	1.1	1.5	1¼"	299	16
S4S-16/18	1.5	2	1¼"	376	16
S4S-25/03	0.37	0.5	1½"	60	25
S4S-25/05	0.55	0.75	1½"	96	25
S4S-25/07	0.75	1	1½"	138	25
S4S-25/09	1.1	1.5	1½"	200	25
S4S-25/11	1.5	2	1½"	247	25
S4S-40/03	0.75	1	2"	48	40
S4S-40/05	1.1	1.5	2"	100	40
S4S-40/07	1.5	2	2"	150	40
S4S-75/03	1.5	2	2"	62	75

Conditions of Acceptability:

1. Above models are certified as a component where final combination shall be subject to re-evaluation by CSA International.
2. Ratings are based on testing in clear liquid water.
3. Units cannot be used as decorative fountain pump
4. Overload protection must be put by installer. Use with approved motor control that matches motor input in full load amperes with overload element(s) selected or adjusted in accordance with control instructions based on installation code. As the unit is without inherent thermal protection, hence, installer requires the same ambient for the pump and for the motor starter with the overload relay with a max 10C ambient difference
5. This report is only for the pump portion and above units are to be used only with the motors certified in CSA project no. 70174831 given below:

MODEL	HP	kW	Phase	Hz	Volts	Amps	SF	SF Max Amp (A)	RPM
					(V)	(A)			
R4AS-05-2E	0.5	0.37	1	60	230	4.8	1.6	5.5	3450
R4AS-07-2E	0.75	0.55	1	60	230	5.8	1.5	6.2	3450
R4AS-10-2E	1.0	0.75	1	60	230	6.4	1.4	7.5	3450
R4AS-15-2E	1.5	1.1	1	60	230	8.4	1.3	10	3450
R4AS-05-1R	0.5	0.37	1	60	115	10	1.6	12	3450
R4AS-05-1E	0.5	0.37	1	60	230	4.5	1.6	6.0	3450
R4AS-07-1E	0.75	0.55	1	60	230	6.7	1.5	8.0	3450



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R4AS-10-1E	1.0	0.75	1	60	230	8.5	1.4	10.4	3450
R4AS-15-3E	1.5	1.1	1	60	230	8.1	1.3	11.5	3450
R4AS-20-3E	2.0	1.5	1	60	230	10.3	1.25	13.1	3450
R4A-05-4E	0.5	0.37	3	60	230	2.1	1.6	2.9	3450
R4A-07-4E	0.75	0.55	3	60	230	3.1	1.5	3.8	3450
R4A-10-4E	1.0	0.75	3	60	230	3.7	1.4	4.7	3450
R4A-15-4E	1.5	1.1	3	60	230	5.5	1.3	6.2	3450
R4A-20-4E	2.0	1.5	3	60	230	7.5	1.25	8.1	3450
R4A-05-4M	0.5	0.37	3	60	460	1.2	1.6	1.5	3450
R4A-07-4M	0.75	0.55	3	60	460	1.4	1.5	1.9	3450
R4A-10-4M	1.0	0.75	3	60	460	2.0	1.4	2.3	3450
R4A-15-4M	1.5	1.1	3	60	460	2.5	1.3	3.0	3450
R4A-20-4M	2.0	1.5	3	60	460	3.5	1.25	4.0	3450

APPLICABLE REQUIREMENTS

C22.2 NO. 108-14 - Liquid pumps

UL 778 Ed. 6 - Motor-Operated Water Pumps

C22.2 NO. 100-14 - Motors and generators (used as a guide)

UL 1004-1 Ed. 2 - Rotating Electrical Machines - General Requirements (used as a guide)



Supplement to Certificate of Compliance

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*The products listed, including the latest revision described below,
are eligible to be marked in accordance with the referenced Certificate.*

Product Certification History

Project	Date	Description
70159918	2018-05-18	Original Certification.