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Pentair International LLC

LIMITED PRODUCTION CERTIFICATION REPORT

SCOPE OF WORK

Limited Production Certification (ETLus) of Motor operated water pumps (various models)

REPORT NUMBER

200022111UDI-ETL

ISSUE DATE

22-March-2019

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DOCUMENT CONTROL NUMBER

SFT-ETL LPC-OP-19c (28-July-2017)

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LIMITED PRODUCTION CERTIFICATION REPORT

Report Number	200022111UDI-ETL	Original Issued:	22-March-2019	Revised:	None
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Standard(s)	UL 778:2016Ed.6+R:20Oct2017 Motor-Operated Water Pumps
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Applicant	Pentair International LLC	Manufacturer	Pentair Manufacturing Italy S.r.l.
Address	Avenue de Sevelin, 18 1004 Lausanne	Address	Via Masaccio, 13 56010 Lugnano, PISA
Country	Switzerland	Country	ITALY
Contact	Mr. Marco Bernacca	Contact	Mr. Marco Bernacca
Phone	+39.050.716.890	Phone	+39.050.716.890
FAX	--	FAX	--
Email	Marco.bernacca@pentair.com	Email	Marco.bernacca@pentair.com

Product Description	
Product	Motor-Operated Water Pumps
Brand name	Pentair, Pentair Aurora, Fairbanks
Description	The products covered by this report are commercial, indoor use, permanently connected Motor-Operated Water Pumps
Models	PVM 10-2 FT, PVM 10-6 FT, PVM 15-3 FT, PVM 15-4 FT, PVM 20-2 FT, PVM 20-3 FT, PVM 3-2 FT, PVM 32-2 FT, PVM 3-3 FT, PVM 3-5 FT, PVM 45-2-2 FT, PVM 45-3-2 FT
Model Similarity	All products covered by this report are commercial, indoor use, permanently connected Motor-Operated Water Pumps
Ratings	PVM 10-2 FT: rated 400V, 3 phases, 60Hz, 3.2A, 1.5kW PVM 10-6 FT: rated 400V, 3 phases, 60Hz, 7.4A, 4kW PVM 15-3 FT: rated 400V, 3 phases, 60Hz, 7.4A, 4kW PVM 15-4 FT: rated 400V, 3 phases, 60Hz, 10.1A, 5.5kW PVM 20-2 FT: rated 400V, 3 phases, 60Hz, 7.4A, 4kW PVM 20-3 FT: rated 400V, 3 phases, 60Hz, 10.1A, 5.5kW PVM 3-2 FT: rated 400V, 3 phases, 60Hz, 1.1A, 0.37kW PVM 32-2 FT: rated 400V, 3 phases, 60Hz, 13.9A, 7.5kW PVM 3-3 FT: rated 400V, 3 phases, 60Hz, 1.3A, 0.55kW PVM 3-5 FT: rated 400V, 3 phases, 60Hz, 1.7A, 0.75kW PVM 45-2-2 FT: rated 400V, 3 phases, 60Hz, 19.4A, 11kW PVM 45-3-2 FT: rated 400V, 3 phases, 60Hz, 35.9A, 18.5kW
Other Ratings	NA


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Labeling					
Model	Serial No.	LPC No.	Model	Serial No.	LPC No.
PVM 10-2 FT	52047415-0001	1000704	PVM 15-4 FT	52050161-0026	1000775
PVM 10-2 FT	52047415-0002	1000707	PVM 15-4 FT	52050161-0027	1000780
PVM 10-2 FT	52047415-0003	1000713	PVM 15-4 FT	52050161-0028	1000781
PVM 10-2 FT	52047415-0004	1000714	PVM 15-4 FT	52050161-0029	1000782
PVM 10-2 FT	52047415-0005	1000717	PVM 15-4 FT	52050161-0030	1000783
PVM 10-2 FT	52047415-0006	1000718	PVM 15-4 FT	52050161-0031	1000784
PVM 10-2 FT	52047415-0007	1000719	PVM 15-4 FT	52050161-0032	1000785
PVM 10-2 FT	52047415-0008	1000720	PVM 15-4 FT	52050161-0033	1000786
PVM 10-2 FT	52047415-0009	1000737	PVM 15-4 FT	52050161-0034	1000787
PVM 10-2 FT	52047415-0010	1000748	PVM 15-4 FT	52050161-0035	1000788
PVM 10-2 FT	52047415-0011	1000749	PVM 15-4 FT	52050161-0036	1000789
PVM 10-2 FT	52047415-0012	1000752	PVM 15-4 FT	52050161-0037	1000790
PVM 10-6 FT	52047415-0013	1000721	PVM 15-4 FT	52050161-0038	1000791
PVM 10-6 FT	52047415-0014	1000722	PVM 15-4 FT	52050161-0039	1000792
PVM 10-6 FT	52047415-0015	1000723	PVM 15-4 FT	52050161-0040	1000793
PVM 10-6 FT	52047415-0016	1000724	PVM 15-4 FT	52050161-0041	1000794
PVM 15-3 FT	52047415-0017	1000708	PVM 15-4 FT	52050161-0042	1000795
PVM 15-3 FT	52047415-0018	1000709	PVM 15-4 FT	52050161-0043	1000796
PVM 15-3 FT	52047415-0019	1000710	PVM 15-4 FT	52050161-0044	1000797
PVM 15-3 FT	52047415-0020	1000711	PVM 20-2 FT	52047415-0031	1000732
PVM 15-3 FT	52047415-0021	1000712	PVM 20-2 FT	52047415-0032	1000733
PVM 15-3 FT	52047415-0022	1000715	PVM 20-2 FT	52047415-0033	1000735
PVM 15-3 FT	52047415-0023	1000716	PVM 20-2 FT	52047415-0034	1000753
PVM 15-3 FT	52047415-0024	1000736	PVM 20-3 FT	52047415-0035	1000725
PVM 15-3 FT	52050161-0001	1000738	PVM 20-3 FT	52047415-0036	1000727
PVM 15-3 FT	52050161-0002	1000739	PVM 20-3 FT	52047415-0037	1000728
PVM 15-3 FT	52050161-0003	1000740	PVM 20-3 FT	52047415-0038	1000729
PVM 15-3 FT	52050161-0004	1000755	PVM 3-2 FT	52047415-0039	1000754
PVM 15-3 FT	52050161-0005	1000764	PVM 3-2 FT	52047415-0040	1000757
PVM 15-3 FT	52050161-0006	1000765	PVM 3-2 FT	52047415-0041	1000798
PVM 15-3 FT	52050161-0007	1000766	PVM 3-2 FT	52047415-0042	1000799
PVM 15-3 FT	52050161-0008	1000767	PVM 32-2 FT	52047415-0043	1000726
PVM 15-3 FT	52050161-0009	1000768	PVM 32-2 FT	52047415-0044	1000751
PVM 15-3 FT	52050161-0010	1000769	PVM 3-3 FT	52047415-0045	1000742
PVM 15-3 FT	52050161-0011	1000776	PVM 3-3 FT	52047415-0046	1000743
PVM 15-3 FT	52050161-0012	1000777	PVM 3-3 FT	52047415-0047	1000744
PVM 15-3 FT	52050161-0013	1000778	PVM 3-3 FT	52047415-0048	1000745
PVM 15-3 FT	52050161-0014	1000779	PVM 3-3 FT	52047415-0049	1000746
PVM 15-4 FT	52047415-0025	1000702	PVM 3-3 FT	52047415-0050	1000747
PVM 15-4 FT	52047415-0026	1000703	PVM 3-3 FT	52047415-0051	1000758
PVM 15-4 FT	52047415-0027	1000705	PVM 3-3 FT	52047415-0052	1000759
PVM 15-4 FT	52047415-0028	1000706	PVM 3-3 FT	52047415-0053	1000760
PVM 15-4 FT	52047415-0029	1000734	PVM 3-3 FT	52047415-0054	1000761
PVM 15-4 FT	52047415-0030	1000750	PVM 3-5 FT	52047415-0055	1000762
PVM 15-4 FT	52050161-0021	1000770	PVM 3-5 FT	52047415-0056	1000763
PVM 15-4 FT	52050161-0022	1000771	PVM 45-2-2 FT	52047415-0057	1000730
PVM 15-4 FT	52050161-0023	1000772	PVM 45-2-2 FT	52047415-0058	1000731
PVM 15-4 FT	52050161-0024	1000773	PVM 45-3-2 FT	52047415-0059	1000741
PVM 15-4 FT	52050161-0025	1000774	PVM 45-3-2 FT	52047415-0060	1000756

LIMITED PRODUCTION CERTIFICATION REPORT

Test Summary			
Evaluation Period	March 18 – 22, 2019	Project No.	22111
Sample Rec. Date	March 18, 2019	Condition	Production
		Sample ID.	--
Test Location	Pentair Manufacturing Italy S.r.l. – Via Masaccio, 13 – 56010 Lugnano, PISA – ITALY		
Test Procedure	Testing at Manufacturers Premises (TMP) - Level 1		
Determination of the result includes consideration of measurement uncertainty from the test equipment and methods. The product was tested as indicated below with results in conformance to the relevant test criteria.			
The following tests were performed:			
Test Description	UL 778:2016Ed.6 + R:20Oct2017 Clause		
Starting Current Test	38		
Input Test	39		
Temperature Test	40		
Dielectric Voltage-Withstand Test	41		
Flooding Test	45		
Insulation Resistance Test	46		
Operation Test	52		
Abnormal Operation Test: Dry operation	53.1		

Conclusion			
A representative sample of the product covered by this report has been evaluated and found to comply with the applicable requirements of the standards indicated above.			
Please note, this Report does not represent authorization for the applicant or manufacturer to apply Intertek Certification Marks.			
Completed by:	Anna Baruzzi	Reviewed by:	Marco De Mattia
Title:	Senior Project Engineer	Title:	Technical Manager
Signature:		Signature:	