



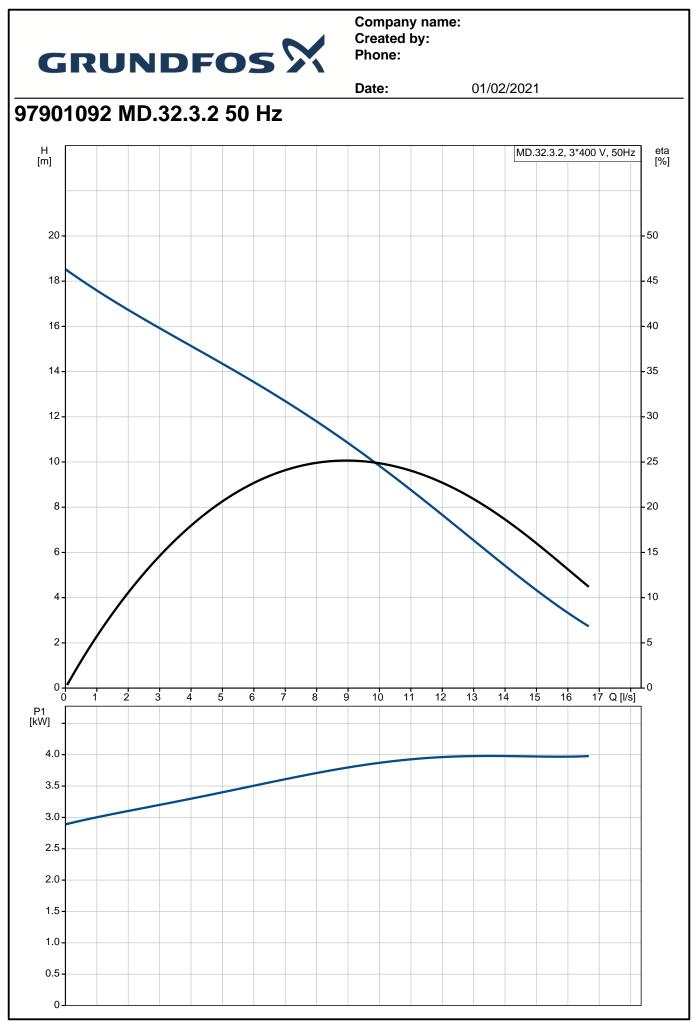
Company name: Created by:

	GRUNDF		Date:	01/02/2021				
	Description		Duto	01/02/2021				
+	 highest measured motor 	or current						
	alarm indication of:							
	- pump status (running, f	ault)						
	 phase-sequence fault a 							
	- thermal-switch failure	ind mooning prices						
	- high-water alarm							
	- time for service/mainter	nance (selectable)						
	selection of automatic alarm							
	fault log of up to 20 alarms							
	• selection between different s	tart levels						
	• selection of connected sense	or type						
	• calibration of sensor (preset)							
	• selection of maintenance inte		nonths).					
	As standard, the LC 221 has		,					
	6 potential-free outputs for:							
	– pump running							
	– pump failure							
	 high water-level alarm 							
	 – common fault. 							
	6 digital inputs for the following	y functions:						
	- connecting a pressure sense	or board (pre-assem	bled)					
	- connecting an analogue sen							
	- connecting up to four level s			of analogue sensor				
	- connecting a separate level							
		Lifting stations are c	detection outside the Multilift. Lifting stations are often					
	installed in a sump inside the basement - the lowest point in the building. In case of e.g. groundwater inflow or							
	installed in a sump inside the t	pasement - the lowe	est point in the build	ling. In case of e.g. groundwater inflo	w or			
	water pipe burst, an alarm will	be indicated by the	est point in the build	ling. In case of e.g. groundwater inflo	w or			
	water pipe burst, an alarm will - connecting an external alarm	be indicated by the n reset	est point in the build	ling. In case of e.g. groundwater inflo	w or			
	water pipe burst, an alarm will	be indicated by the n reset	est point in the build	ling. In case of e.g. groundwater inflo	w or			
	 water pipe burst, an alarm will connecting an external alarm connecting the thermal switc The Multilift range is designed	be indicated by the n reset ch of the motor.	est point in the build controller.					
	 water pipe burst, an alarm will connecting an external alarm connecting the thermal switch 	be indicated by the n reset ch of the motor.	est point in the build controller.	ling. In case of e.g. groundwater inflo				
	 water pipe burst, an alarm will connecting an external alarm connecting the thermal switc The Multilift range is designed	be indicated by the n reset ch of the motor.	est point in the build controller.					
	water pipe burst, an alarm will – connecting an external alarm – connecting the thermal switc The Multilift range is designed Further approvals are VDE, Gl	be indicated by the n reset ch of the motor.	est point in the build controller.					
	 water pipe burst, an alarm will connecting an external alarm connecting the thermal switch The Multilift range is designed Further approvals are VDE, Gli Controls: Type of control box: 	be indicated by the n reset ch of the motor. due to the standarc HOST, CB, EMV	est point in the build controller.					
	 water pipe burst, an alarm will connecting an external alarm connecting the thermal switch The Multilift range is designed Further approvals are VDE, Gli Controls: Type of control box: Liquid: 	be indicated by the n reset ch of the motor. due to the standarc HOST, CB, EMV LC221.2	est point in the build controller.					
	 water pipe burst, an alarm will connecting an external alarm connecting the thermal switch The Multilift range is designed Further approvals are VDE, GI Controls: Type of control box: Liquid: Liquid temperature range: 	be indicated by the n reset ch of the motor. due to the standard HOST, CB, EMV LC221.2 0 °C 40 °C	est point in the build controller.					
	 water pipe burst, an alarm will connecting an external alarm connecting the thermal switch The Multilift range is designed Further approvals are VDE, Gli Controls: Type of control box: Liquid: 	be indicated by the n reset ch of the motor. due to the standarc HOST, CB, EMV LC221.2	est point in the build controller.					
	 water pipe burst, an alarm will connecting an external alarm connecting the thermal switch The Multilift range is designed Further approvals are VDE, Gli Controls: Type of control box: Liquid: Liquid temperature range: Density: 	be indicated by the n reset ch of the motor. due to the standard HOST, CB, EMV LC221.2 0 °C 40 °C	est point in the build controller.					
	 water pipe burst, an alarm will connecting an external alarm connecting the thermal switch The Multilift range is designed Further approvals are VDE, Gli Controls: Type of control box: Liquid: Liquid temperature range: Density: Technical: 	be indicated by the n reset ch of the motor. due to the standarc HOST, CB, EMV LC221.2 0 °C 40 °C 998.2 kg/m ³	est point in the build controller.					
	 water pipe burst, an alarm will connecting an external alarm connecting the thermal switch The Multilift range is designed Further approvals are VDE, Glean Controls: Type of control box: Liquid: Liquid temperature range: Density: Technical: Type of impeller: 	be indicated by the n reset ch of the motor. due to the standarc HOST, CB, EMV LC221.2 0 °C 40 °C 998.2 kg/m ³ VORTEX	est point in the build controller.					
	 water pipe burst, an alarm will connecting an external alarm connecting the thermal switch The Multilift range is designed Further approvals are VDE, Gle Controls: Type of control box: Liquid: Liquid temperature range: Density: Technical: Type of impeller: Maximum particle size: 	be indicated by the n reset ch of the motor. due to the standarc HOST, CB, EMV LC221.2 0 °C 40 °C 998.2 kg/m ³ VORTEX 50 mm	est point in the build controller.					
	 water pipe burst, an alarm will connecting an external alarm connecting the thermal switch The Multilift range is designed Further approvals are VDE, Gle Controls: Type of control box: Liquid: Liquid temperature range: Density: Technical: Type of impeller: Maximum particle size: Approvals on nameplate: 	be indicated by the n reset ch of the motor. due to the standarc HOST, CB, EMV LC221.2 0 °C 40 °C 998.2 kg/m ³ VORTEX 50 mm EN 12050-1	est point in the build controller.					
	 water pipe burst, an alarm will connecting an external alarm connecting the thermal switch The Multilift range is designed Further approvals are VDE, Gle Controls: Type of control box: Liquid: Liquid temperature range: Density: Technical: Type of impeller: Maximum particle size: 	be indicated by the n reset ch of the motor. due to the standarc HOST, CB, EMV LC221.2 0 °C 40 °C 998.2 kg/m ³ VORTEX 50 mm	est point in the build controller.					
	 water pipe burst, an alarm will connecting an external alarm connecting the thermal switch The Multilift range is designed Further approvals are VDE, Gle Controls: Type of control box: Liquid: Liquid temperature range: Density: Technical: Type of impeller: Maximum particle size: Approvals on nameplate: 	be indicated by the n reset ch of the motor. due to the standarc HOST, CB, EMV LC221.2 0 °C 40 °C 998.2 kg/m ³ VORTEX 50 mm EN 12050-1	est point in the build controller.					
	 water pipe burst, an alarm will connecting an external alarm connecting the thermal switch The Multilift range is designed Further approvals are VDE, Glee Controls: Type of control box: Liquid: Liquid temperature range: Density: Technical: Type of impeller: Maximum particle size: Approvals on nameplate: Valve type: 	be indicated by the n reset ch of the motor. due to the standarc HOST, CB, EMV LC221.2 0 °C 40 °C 998.2 kg/m ³ VORTEX 50 mm EN 12050-1	est point in the build controller.					
	 water pipe burst, an alarm will connecting an external alarm connecting the thermal switch The Multilift range is designed Further approvals are VDE, Gle Controls: Type of control box: Liquid: Liquid: Liquid temperature range: Density: Technical: Type of impeller: Maximum particle size: Approvals on nameplate: Valve type: 	be indicated by the n reset ch of the motor. due to the standard HOST, CB, EMV LC221.2 0 °C 40 °C 998.2 kg/m ³ VORTEX 50 mm EN 12050-1 FLAP VALVE	est point in the build controller.					
	 water pipe burst, an alarm will connecting an external alarm connecting the thermal switch The Multilift range is designed Further approvals are VDE, Gle Controls: Type of control box: Liquid: Liquid: Liquid temperature range: Density: Technical: Type of impeller: Maximum particle size: Approvals on nameplate: Valve type: Materials: Impeller: 	be indicated by the n reset ch of the motor. due to the standarc HOST, CB, EMV LC221.2 0 °C 40 °C 998.2 kg/m ³ VORTEX 50 mm EN 12050-1 FLAP VALVE LURANYL	est point in the build controller.					
	 water pipe burst, an alarm will connecting an external alarm connecting the thermal switch The Multilift range is designed Further approvals are VDE, Gle Controls: Type of control box: Liquid: Liquid: Liquid temperature range: Density: Technical: Type of impeller: Maximum particle size: Approvals on nameplate: Valve type: Materials: Impeller: Tank: Gasket: 	be indicated by the n reset ch of the motor. due to the standarc HOST, CB, EMV LC221.2 0 °C 40 °C 998.2 kg/m ³ VORTEX 50 mm EN 12050-1 FLAP VALVE LURANYL LDPE	est point in the build controller.					
	 water pipe burst, an alarm will connecting an external alarm connecting the thermal switch The Multilift range is designed Further approvals are VDE, Gle Controls: Type of control box: Liquid: Liquid: Liquid temperature range: Density: Technical: Type of impeller: Maximum particle size: Approvals on nameplate: Valve type: Materials: Impeller: Tank: 	be indicated by the n reset ch of the motor. due to the standarc HOST, CB, EMV LC221.2 0 °C 40 °C 998.2 kg/m ³ VORTEX 50 mm EN 12050-1 FLAP VALVE LURANYL LDPE	est point in the build controller.					
	 water pipe burst, an alarm will connecting an external alarm connecting the thermal switch The Multilift range is designed Further approvals are VDE, GIR Controls: Type of control box: Liquid: Liquid: Liquid temperature range: Density: Technical: Type of impeller: Maximum particle size: Approvals on nameplate: Valve type: Materials: Impeller: Tank: Gasket: Installation: Pump outlet: 	be indicated by the n reset ch of the motor. due to the standard HOST, CB, EMV LC221.2 0 °C 40 °C 998.2 kg/m ³ VORTEX 50 mm EN 12050-1 FLAP VALVE LURANYL LDPE NBR	est point in the build controller.					
	 water pipe burst, an alarm will connecting an external alarm connecting the thermal switch The Multilift range is designed Further approvals are VDE, GI Controls: Type of control box: Liquid: Liquid temperature range: Density: Technical: Type of impeller: Maximum particle size: Approvals on nameplate: Valve type: Materials: Impeller: Tank: Gasket: Installation: Pump outlet: Electrical data: 	be indicated by the n reset ch of the motor. due to the standard HOST, CB, EMV LC221.2 0 °C 40 °C 998.2 kg/m ³ VORTEX 50 mm EN 12050-1 FLAP VALVE LURANYL LDPE NBR 80	est point in the build controller.					
	 water pipe burst, an alarm will connecting an external alarm connecting the thermal switch The Multilift range is designed Further approvals are VDE, GI Controls: Type of control box: Liquid: Liquid temperature range: Density: Technical: Type of impeller: Maximum particle size: Approvals on nameplate: Valve type: Materials: Impeller: Tank: Gasket: Installation: Pump outlet: Electrical data: Power input - P1: 	be indicated by the n reset ch of the motor. due to the standarc HOST, CB, EMV LC221.2 0 °C 40 °C 998.2 kg/m ³ VORTEX 50 mm EN 12050-1 FLAP VALVE LURANYL LDPE NBR 80 2 x 4 kW	est point in the build controller.					
	 water pipe burst, an alarm will connecting an external alarm connecting the thermal switch The Multilift range is designed Further approvals are VDE, GI Controls: Type of control box: Liquid: Liquid temperature range: Density: Technical: Type of impeller: Maximum particle size: Approvals on nameplate: Valve type: Materials: Impeller: Tank: Gasket: Installation: Pump outlet: Electrical data: 	be indicated by the n reset ch of the motor. due to the standard HOST, CB, EMV LC221.2 0 °C 40 °C 998.2 kg/m ³ VORTEX 50 mm EN 12050-1 FLAP VALVE LURANYL LDPE NBR 80	est point in the build controller.					



Company name: Created by: Phone:

				01/02/2021
	Description			
	Rated voltage:	3 x 400 V		
	Voltage tolerance:	+10/-14 %		
	Max starts per. hour:	60		
	Rated current:	2 X 6,7 A		
	Cos phi - power factor:	0.86		
	Rated speed:	2890 rpm		
	Motor efficiency at full load:	85.4 %		
	Number of poles:	2		
	Start. method:	direct-on-line		
	Enclosure class (IEC 34-5):	IP68		
	Insulation class (IEC 85):	F		
	Type of cable plug:	CEE 3P+N+E		
L	Mains cable:	1.5 m		
	Mains Cable.	1.5 11		
	Tank:			
	Total volume of tank(s):	130		
	Total effective volume of collect		49	
	Total effective volume of collect	ing tank at 250 mm inlet:	691	
	Total effective volume of collect			
		-		
	Others:	100 km		
	Net weight:	126 kg		
	Finnish LVI No.:	4965387		
L				
L				
L				
L				
L				
L				
L				
£				





Company name: Created by: Phone:

Description Value General Information: MD 32.3.2, 2:400 v 50m² Product No: 9700/022 Product No: 15.7 1/6 Maximum Tow: 15.7 1/6 Maximum Tow: 15.7 1/6 Maximum particle size: 50 mm Approvals on maneplate: EN 12050-1 Valve Myne: FLAP VALVE Materials: LURANYL Tank: LDPE Gaskat: NBR Porup outlet: 80 Liquid: Liquid: Liquid: Explored Liquid: 2 × 3.4 kW Mais tants port-hour: 80 Caskat: NBR Porup outlet: 80 Caskat: NBR Porup outlet: 80 Stant.conce: 40 V Motor officiency at full load: 84.4 % Notor officiency: 15.7 m Cable size: 4.57.4 % Motor officiency: 15.7 m Cable size: 4.57.4 %<			Date: 01/02/2021
General Information: Product No: Product N	Description	Value	H [m] MD.32.3.2, 3*400 V, 50Hz
Product Iname: MD 32.3.2 Product No: 97010620 EAN number: 5710626080922 Price: Technical: Maximum fow: 16.7 I/s Maximum particle size: 50 mm Approvals on nameplate: EN 12050-1 Vive type: FLAP VALVE Materials: Impeller: LURANYL Materials: Impeller: LURANYL Materials: Impeller: ELVERVALVE Materials: Prover input: P1: 2 x4 4W Mans forwing-P: 3 x400 V Violage Iolarance: 410/14 % Mas starts per, hour; 60 Start. method: Inclusion class (IEC 34-5): F Reclassure class (IEC 34-5): T Reclassure class (IEC 34-5): T Reclass IEC (IEC 34-5): T Reclassure class (IEC 34-5): T Reclassure class		Value	
Product No: 97901092 Product No: 6710620609022 Price: 5710620609022 Price: 571062060902 Price: 571062060902 Price: 571062060902 Price: 571062060902 Price: 57106090 Price: 571060000 Price: 571060000 Price: 571060000 Price:		MD.32.3.2	
AN number: 5710626080922 Phice: Phice			20
Phose: 01 00000000000000000000000000000000000			18-
Fechnical: 16.7 V/s Waximum flow: 16.7 V/s Waximum flow: 16.7 V/s Waximum flow: 16.7 V/s Has flow: 16.7 V/s Has flow: 16.7 V/s Has flow: 16.7 V/s Has flow: 16.7 V/s Waximum flow: 16.7 V/s Has flow: 16.7 V/s Waximum particle size: 50 mm Approvals on nameplate: EN 12050-1 Calve type: FLAP VALVE Waterlais: LURANYL Tark: LDPE Saket: NBR Dump outiet: 80 Jupid temperature range: 0 °C .40 °C Density: 998.2 kg/m ³ Power input: P1: 2 x 4 kW Rated spect: 85.4 % Values frequency: 50 Hz Stated spect: 280 mm Aread ourent: 2 X 6, 7 A Cos phi - power factor: 0 85.4 % Sumber opoles: 2 State spect: MMTAL THERMAL Motor cable: 4 m Cable type:		5710020000922	
Wax flow: 16.7 l/s Wax flow: 16.7 l/s Hax flow: 16.7 l/s Head max: 16.8 m Type of impeller: VORTEX Waxismum particle size: 50 mm Approvals on nameplate: EN 12050-1 File Advertals: LURANYL Tank: LDPE Saskat: NBR Installation:			16
dax flow: 16.7 //s lead max: 18.5 m vyce of impeller: VORTEX Maximum particle size: 50 mm paperovals on nameplate: EN 12050-1 Jalke trips: FLAP VALVE Materials: IUPANVL mpeller: LUPANVL Tank: LDPE Saskat: NBR "ump outiet: 80 -jquid:		1071/	
Had max: 10.5 m Type of Impeller: VORTEX WOR			
read max 13.5 m Yee of impeller: VORTEX Maximum particle size: 50 mm Approvals on nameplate: EN 12050-1 //ave type: FLAP VALVE Materials: IURANYL Fank: LURANYL Sasket: NBR mstallation: Pump outlet: Jupud temperature range: 0 °C 40 °C Jupud temperature range: 3 × 400 V State power r. P2: 2 × 3 kW State ovalage: 3 × 400 V State speed: 2 890 rpm Motor efficiency at full load: 85 4 % Wortor efficiency at full load: 85 4 % SwittCH			12
Maximum particle size: 50 mm Approvals on nameplate: EN 12050-1 Approvals on nameplate: EN 12050-1 Approvals on nameplate: EN 12050-1 Approvals on nameplate: EN 12050-1 Approvals on nameplate: EN 12050-1 FLAP VALVE Materials: mpeller: LURANYL Fank: LDPE Saskat: NBR mstallation: Pump outlet: Approvals Saskat: Approvals Saskat: NBR mstallation: Pump outlet: Approvals Saskat:			
Approvals on nameplate: EN 12050-1 Valve type: FLAP VALVE Trank: LURANYL Tank: LURANYL Tank: LURANYL Tank: NBR netallation: Unpointer: 80 Liquid: impendance transe: 0 °C 40 °C Density: 998.2 Kg/m ³ Electrical data: 20 Density: 998.2 Kg/m ³ Electrical data: 20 Density: 998.2 Kg/m ³ Electrical data: 20 Density: 20 MBZ Kg/m			10-
Applovation of anterpartie: EN / 2000-1 Adver type: FLAP VALVE Materials: IURANYL Fank: LDPE Saskat: NBR Installation: Jung outlet: Liquid: Liquid: Density: Power input - P1: 2 x 4 kW Xated power - P2: 2 x 3 4 kW Mains frequency: 50 Hz Alled current: 2 X & 7 A Cos phi - power factor: 0.86 Rated overnt: 2 X & 7 A Cos phi - power factor: 0.86 Rated overnt: 2 X & 7 A Cos phi - power factor: 0.86 Rated overnt: 2 X & 7 A Cos phi - power factor: 0.86 Rated overnt: 2 X & 7 A Cos phi - power factor: 0.86 Rated overnt: 2 X & 7 A Cos phi - power factor: 0.86 Satur, method: direct-on-line Enclosure class (IEC 34-5): IP68 nsulation class (IEC 85): F Motor protec: BIMETAL THERMAL SWITCH SWITCH Motor protec: BIMETAL THERMAL SWITCH SVITCH Desize: 4 X1.5-2X1 Values cable: 1.5 m Cable type: HO7 RN-F Cyperation mode: S3-506,1MIN Total officitive volume of collecting tank 69 1 Total officitive volume of collecting tank 69 1 <tr< td=""><td></td><td>50 mm</td><td></td></tr<>		50 mm	
Waterials: ULRANYL mpeller: LURANYL Tank: LDPE Sasket: NBR nstallation: Pump outlet: Pump outlet: 80 Liquid:	Approvals on nameplate:	EN 12050-1	
Materials: mpeller: I LURANYL Tank: Durp outlet: LDPEURANYL I LDPEBasket: NBR nstallation: Pump outlet: Liquid: Liquid: Liquid: Liquid: Liquid: Liquid: Liquid: Density: Density: Stated torget: Stated torget: Stated torget: Stated torget: Stated torget: Stated torget: Stated torget: Stated torget: Stated torget: Stated current: Stated current: Stated current: Stated speed: Stated speed: State	/alve type:	FLAP VALVE	
ImplementLCHARTETank:LDPESasket:NBRInstallation:Pump outlet:Pump outlet:80Liquid: $0^{\circ}C40^{\circ}C$ Jenid:O^{\circ}C40^{\circ}CJenid:O^{\circ}C40^{\circ}CDensity:998.2 kg/m ³ Electrical data:Over input - P1:Over input - P1:2 x 4 kWRated yoer:50 HzRated voltage:3 x 400 VValues frequency:50 HzRated voltage:3 x 400 VValues frequency:50 HzRated voltage:3 x 400 VVoltage tolerance:+ 10/-14 %Was starts per. hour:60Sated current:2 X 6,7 ACos phi - power factor:0.86Rated speed:2890 rpmWotor efficiency at full load:85.4 %Wotor protec:BIMETAL THERMALSwittCHBIMETAL THERMALWotor protec:BIMETAL THERMALSwittCHSwittCHMains cable:1.5 mCable type:HO7 RN-FType of cable julo:CE21.2Operation mode:S3-50%,1MINTank:Total effective volume of collecting tankTotal effective volume of collecting tank4180 mm inlet:691Total effective volume of collecting tank1230 mm inlet:Total effective volume of collecting tank6911230 mm inlet:Total effective volume of collecting tank6911240 mm inlet:Total effectiv	Materials:		
Tank: LDPE Gasket: NBR nestallation: NBR Dump outlet: 80 Liquid: 0°C40 °C audi temperature range: 0°C40 °C Density: 998.2 kg/m³ Electrical data: 998.2 kg/m³ Power input - P1: 2 x 4 kW Stated ovalage: 3 x 400 V Voltage tolerance: +10/-14 % Aixet dovalage: 3 x 400 V Voltage tolerance: +10/-14 % Aixet dourrent: 2 X 6,7 A Cos phi - power factor: 0.86 Rated speed: 2890 rpm Motor efficiency at full load: 85.4 % Number of poles: 2 Start. method: direct-on-line Enclosure class (IEC 34-5): IP6 Motor protec: BIMETAL THERMAL Switch HO7 RN-F Type of coble plug: CE2 89-N+E Valins cable: 4 m Cable type: HO7 RN-F Type of control box: LC221.2 Operation mode: S3-50%, 1MIN Total effective volume	mpeller:	LURANYL	
Basket: NBR nstallation: NBR nstallation: 0°C. 40°C Density: 998.2 kg/m³ Power input - P1: 2 x 4 kW Rated power - P2: 2 x 3.4 kW Wains frequency: 50 Hz Rated over - P2: 2 x 3.4 kW Voltage tolerance: + 10/-14 % Max starts per. hour: 60 Rated over age: 3 x 400 V Voltage tolerance: + 10/-14 % Max starts per. hour: 60 Rated over age: 2 X 6,7 A Cos phi - power factor: 0.86 Rated over age: 2 X 6,7 A Cos phi - power factor: 0.86 Rated over age: 2 X 6,7 A Cos phi - power factor: 0.86 Rated over age: 2 S 4.5 % Number of poles: 2 Start. method: direct-on-line Enclosure class (IEC 34-5): IPF88 Inclosure class (IEC 34-5): IPF88 Cable size: 4 X 15-2X1 Mains cable: 1.5 m Cable size: 4 X 50 mm intet. <	•		
nstallation: Pump outlet: liquid temperature range: liquid temperature r			
Pump outlet: 80 Liquid: Liquid: Solution of table plug: CEE 3P+N+E Mains cable: 1.5 m Solution class (IEC 85): F Motor protec: BIMETAL THERMAL SWITCH Motor folces: 4 m Cable spee: 4X1,5+2X1 Mains cable: 1.5 m Suble spee: 4X1,5+2X1 Mains cable: 1.5 m Solution class (IEC 85): F Motor protec: BIMETAL THERMAL SWITCH Motor folces: 4 m Cable spee: 4X1,5+2X1 Mains cable: 1.5 m Solution class (IEC 85): F Motor protec: BIMETAL THERMAL SWITCH Mains cable: 1.5 m Solution class (IEC 85): F Type of cable plug: CEE 3P+N+E Mains cable: 1.5 m Solution class (IEC 85): F Type of cable plug: CEE 3P+N+E Mains cable: 1.5 m Solution minket: Total effective volume of collecting tank 491 Total effective volume of collecting tank 491 Total effective volume of collecting tank 861 Mains cable: 50 Coll volume of collecting tank 861 Mains cable to volume to collecting tank 861 Mains cable to volume to collecting tank 861			
Liquid temperature range: 0 °C 40 °C Density: 998.2 kg/m³ Electrical data: Power input - P1: 2 x 4 kW Mains frequency: 50 Hz Rated power - P2: 2 x 3.4 kW Mains frequency: 50 Hz Rated power - P2: 3 x 400 V Voltage tolerance: +10/-14 % Max starts per, hour: 60 Rated current: 2 X 6,7 A Cos phi - power factor: 0.86 Rated speed: 2890 rpm Motor efficiency at full load: 85.4 % Number of poles: 2 Start, method: direct-on-line Enclosure class (IEC 34-5): IP68 Insulation class (IEC 45): F Motor protec: BIMETAL THERMAL SWITCH Thermal protec: BIMETAL THERMAL SWITCH Thermal protec: 1.5 m Cable size: 4 X1,5+2X1 Mains cable: 1.5 m Cable size: 4X1,5+2X1 Mains cable: 49 Type of cantrol box: LC221.2 Operation mode: S3-50%,1MIN Tank: Total effective volume of collecting tank 49 1 Total effective volume of collecting tank 49 1 Total effective volume of collecting tank 49 1 Total effective volume of collecting tank 49 1		80	0 2 4 6 8 10 12 14 Q[l/s]
lquid temperature range: 0 °C 40 °C Density: 998.2 kg/m ³ Electrical data: Dower input: P1: 2 x 4 kW Nated power - P2: 2 x 3.4 kW Mains frequency: 50 Hz Sated orlange: 3 x 400 V /oltage tolerance: +10/14 % Max starts per. hour: 60 Sated orlange: 2 x 6,7 A Cos phi - power factor: 0.86 Sated speed: 2890 rpm Motor efficiency at full load: 854 % Number of poles: 2 Sat. method: direct-on-line Enclosure class (IEC 34-5): IP68 nsulation class (IEC 34-5): F Motor protec: BIMETAL THERMAL SWITCH Thermal protec: BIMETAL THERMAL SWITCH Motor cable it. 5 m Cable kipe: H07 RN-F Type of cable plug: CEE 3P+N+E Wains cable: 1.5 m Cable size: 4X1,5+2X1 Wains cable: 1.5 m Type of control box: LC221.2 Dyperation mode: S3-50%,1MIN Fank: Total effective volume of collecting tank 491 Total effective volume of collecting tank 491 Total effective volume of collecting tank 491	•	00	P1 IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
Density: 998.2 kg/m ³ Electrical data: Power input - P1: 2 x 4 kW Rated power - P2: 2 x 3.4 kW Mains frequency: 50 Hz Rated voltage: 3 x 400 V Voltage tolerance: +10/.14 % Max starts per. hour: 60 Rated speed: 2 x 6.7 A Cos phi - power factor: 0.86 Rated speed: 2890 rpm Motor efficiency at full load: 85.4 % Number of poles: 2 Start. method: direct-on-line Enclosure class (IEC 85): F Motor protec: BIMETAL THERMAL SWITCH Thermal protec: BIMETAL THERMAL SWITCH Thermal protec: A m Cable type: H07 RN-F Type of cable [lug: CEE 3P+N+E Mains cable: 1.5 m Cable size: 4 X1,5+2X1 Mains cable: 1.5 m Total effective volume of collecting tank 49 1 Total effective volume of collecting tank 49 1 Total effective volume of collecting tank 49 1 Total effective volume of collecting tank 69 1 Total effective volume of collecting tank 69 1	-		
Electrical data: Power input - P1: 2 x 3 k 4W Mains frequency: 8 x 400 V Voltage tolerance: + 10/-14 % Max starts per. hour: 60 Rated querent: 2 x 6,7 A Cos phi - power factor: 0.86 Rated querent: 2 x 6,7 A Cos phi - power factor: 0.86 Rated speed: 2890 rpm Motor efficiency at full load: 85.4 % Number of poles: 2 z Start. method: direct-on-line Enclosure class (IEC 34-5): IP68 Insulation class (IEC 34-5): IP68 Insulation class (IEC 34-5): IP68 Insulation class (IEC 34-5): IP68 Insulation class (IEC 34-5): IP68 INMETAL THERMAL SWITCH Motor protec: BIMETAL THERMAL SWITCH Thermal protec: ISWITCH Motor cable: 4 m Cable ize: 4 X1,5+2X1 Mains cable: 1.5 m Cable ize: 130 I Total effective volume of collecting tank 69 I			3.5
Electrical data: Power input: P1: 2 x 4 kW Rated power - P2: 2 x 3.4 kW Mains frequency: 50 Hz Rated voltage: 3 x 400 V Voltage tolerance: +10/-14 % Max starts per. hour: 60 Rated current: 2 X 6,7 A Cos phi - power factor: 0.86 Rated speed: 2890 rpm Wotor efficiency at full load: 85.4 % Number of poles: 2 Start. method: direct-on-line Enclosure class (IEC 34-5): IP68 Insulation class (IEC 85): F Wotor protec: BIMETAL THERMAL SWITCH Thermal protec: SWITCH Thermal protec: SWITCH Mains cable: 4 m Cable type: H07 RN-F Type of control box: LC221.2 Operation mode: S3-50%, 1MIN Tank: Total volume of collecting tank 49 1 t180 mm inlet: Total volume of collecting tank 49 1 t180 mm inlet: Total effective volume of collecting tank 49 1 t180 mm inlet: Total effective volume of collecting tank 49 1 t180 mm inlet: Total effective volume of collecting tank 69 1 Total effective volume of collecting tank 49 1	-	998.2 kg/m³	3.0
Total effective volume of collecting tank tal to your of the tank to the tank tot			
Rated power P2. 2 X 3 X NV Wakins frequency: 50 Hz Rated voltage: 3 X 400 V Voltage tolerance: +10/-14 % Max starts per. hour: 60 Rated speed: 2 X 6,7 A Cos phi - power factor: 0.86 Rated speed: 2 890 pm Wotor efficiency at full load: 85.4 % Number of poles: 2 Start. method: direct-on-line Enclosure class (IEC 34-5): IP68 INIETAL THERMAL SWITCH Motor polec: 5 Start. method: Mintreaction of the source of			
Wall is lequeled. SUP 2 So Pri - 2 Altade voltage: 3 x 400 V voltage tolerance: +10/-14 % Max starts per. hour: 60 Rated voltage tolerance: 2 X 6,7 A Cos phi - power factor: 0.86 Rated speed: 2890 rpm Motor efficiency at full load: 85.4 % Number of poles: 2 Start. method: direct-on-line Enclosure class (IEC 34-5): IP68 nsulation class (IEC 34-5): IP68 nsulation class (IEC 35): F Motor protec: BIMETAL THERMAL SWITCH Thermal protec: BIMETAL THERMAL SWITCH Motor cable: 4 m Cable type: H07 RN-F Type of cable plug: CEE 3P+N+E Mains cable: 1.5 m Cable size: 4X1,5+2X1 Mains cable: 1.5 m Cable size: 4X1,5+2X1 Mains cable: H05 VV-F Controls: Type of control box: LC221.2 Operation mode: S3-50%,1MIN Fank: Total effective volume of collecting tank 49 1 80 mm inlet: Total effective volume of collecting tank 49 1 80 mm inlet: Total effective volume of collecting tank 49 1 80 mm inlet: Total effective volume of collecting tank 86			
Rated voltage. S x 400 v Voltage tolerance: +10/14 % Max starts per. hour: 60 Atted current: 2 X 6,7 A Cos phi - power factor: 0.86 Rated speed: 2890 rpm Motor efficiency at full load: 85.4 % Number of poles: 2 Start. method: direct-on-line Enclosure class (IEC 34-5): IP68 Insulation class (IEC 34-5): IP68 Insulation class (IEC 34-5): F Motor protec: BIMETAL THERMAL SWITCH Thermal protec: BIMETAL THERMAL SWITCH Thermal protec: BIMETAL THERMAL SWITCH Motor cable: 4 m Cable size: 4X1,5+2X1 Mains cable: 1.5 m Cable size: 4X1,5+2X1 Mains cable: 69 l Total effective volume of collecting tank 49 l at 180 mm inlet: 69 l Total effective volume of collecting tank 86 l		50 Hz	
Voltage loberation +10/14 % Voltage loberation +10/14 % Wax starts per hour: 60 Rated current: 2 X 6,7 A Cos phi - power factor: 0.86 Rated speed: 2890 rpm Motor efficiency at full load: 85.4 % Number of poles: 2 Start. method: direct-on-line Enclosure class (IEC 34-5): IP88 Insulation class (IEC 35): F Motor protec: BIMETAL THERMAL SWITCH SWITCH BIMETAL THERMAL SWITCH Motor cable: 4 m Cable type: HO7 RN-F Type of cable plug: CEE 3P+N+E Wains cable: 1.5 m Cable size: 4X1,5+2X1 Mains cable: 1.5 m Cable size: 4X1,5+2X1 Mains cable: 1.5 m Cable size: 4X1,5+2X1 Mains cable: 130 I Total effective volume of collecting tank 49 I at 180 mm inlet: 69 I Total effective volume of collecting tank 69 I Total effective volume of collecting tank<	Rated voltage:	3 x 400 V	
Max stalts per . HOUL. 600 Rated greent: 2 X 6,7 A Cos phi - power factor: 0.86 Rated speed: 2890 rpm Motor efficiency at full load: 85.4 % Number of poles: 2 Start. method: direct-on-line Enclosure class (IEC 34-5): IP68 Insulation class (IEC 85): F Motor protec: BIMETAL THERMAL SWITCH Thermal protec: BIMETAL THERMAL SWITCH Motor cable: 4 m Cable type: HO7 RN-F Type of cable plug: CEE 3P+N+E Mains cable: 1.5 m Cable size: 4X1,5+2X1 Mains cable: 1.5 m Type of control box: LC221.2 Operation mode: S3-50%,1MIN Tank: Total effective volume of collecting tank 49 I at 180 mm inlet: Total effective volume of collecting tank 49 I at 180 mm inlet: Total effective volume of collecting tank 49 I tat 180 mm inlet: Total effective volume of collecting tank 49 I	Voltage tolerance:	+10/-14 %	0.5 -
Rated current: 2 X 6,7 A Cos phi - power factor: 0.86 Rated speed: 2890 rpm Motor efficiency at full load: 85.4 % Number of poles: 2 Start. method: direct-on-line Enclosure class (IEC 34-5): IP68 Insulation class (IEC 85): F Motor protec: BIMETAL THERMAL SWITCH Thermal protec: BIMETAL THERMAL SWITCH Motor cable: 4 m Cable type: H07 RN-F Type of cable plug: CEE 3P+N+E Mains cable: 1.5 m Cable size: 4X1,5+2X1 Mains cable: H05 VV-F Controls: Type of control box: LC221.2 Operation mode: S3-50%,1MIN Tank: Total effective volume of collecting tank 49 1 Total effective volume of collecting tank 861		60	
Cos phi - power factor: 0.86 Rated speed: 2890 rpm Motor efficiency at full load: 85.4 % Number of poles: 2 Start. method: direct-on-line Enclosure class (IEC 34-5): IP68 insulation class (IEC 85): F Motor protec: BIMETAL THERMAL SWITCH SWITCH Thermal protec: BIMETAL THERMAL SWITCH SWITCH Motor cable: 4 m Cable type: H07 RN-F Type of cable plug: CEE 3P+N+E Mains cable: 1.5 m Cable type: H05 VV-F Controls: LC221.2 Operation mode: S3-50%, 1MIN Tank: Total effective volume of collecting tank at 180 mm inlet: Total effective volume of collecting tank at 180 mm inlet: 69 1 Total effective volume of collecting tank at 180 mm inlet:		2 X 6.7 A	
Rated speed: 2890 rpm Motor efficiency at full load: 85.4 % Number of poles: 2 Start. method: direct-on-line Enclosure class (IEC 34-5): IP68 Insulation class (IEC 35): F Motor protec: BIMETAL THERMAL SWITCH Thermal protec: BIMETAL THERMAL SWITCH Motor cable: 4 m Cable type: H07 RN-F Type of cable plug: CEE 3P+N+E Mains cable: 1.5 m Cable size: 4X1,5+2X1 Mains cable: H05 VV-F Controls: Type of control box: LC221.2 Operation mode: S3-50%,1MIN Tank: Total effective volume of collecting tank at 180 mm inlet: Total effective volume of collecting tank at 250 mm inlet: Total effective volume of collecting tank 861			
Motor efficiency at full load: 85.4 % Number of poles: 2 Start. method: direct-on-line Enclosure class (IEC 34-5): IP68 Insulation class (IEC 85): F Motor protec: BIMETAL THERMAL SWITCH Thermal protec: BIMETAL THERMAL SWITCH Motor cable: 4 m Cable type: H07 RN-F Type of cable plug: CEE 3P+N+E Mains cable: 1.5 m Cable size: 4X1,5+2X1 Mains cable: 1.5 m Cable size: 4X1,5+2X1 Mains cable: LC221.2 Operation mode: S3-50%,1MIN Tank: Type of control box: LC221.2 Operation mode: S3-50%,1MIN Tank: Total offective volume of collecting tank 49 1 Total effective volume of collecting tank 49 1			
Number of poles: 2 Start. method: direct-on-line Enclosure class (IEC 34-5): IP68 Insulation class (IEC 85): F Motor protec: BIMETAL THERMAL SWITCH Thermal protec: BIMETAL THERMAL SWITCH Motor cable: 4 m Cable type: HO7 RN-F Type of cable plug: CEE 3P+N+E Mains cable: 1.5 m Cable size: 4X1,5+2X1 Mains cable: H05 VV-F Control box: LC221.2 Operation mode: S3-50%,1MIN Tank: 130 I Total effective volume of collecting tank 49 I at 180 mm inlet: 69 I Total effective volume of collecting tank 86 I			
Start. method: direct-on-line Enclosure class (IEC 34-5): IP68 Insulation class (IEC 85): F Motor protec: BIMETAL THERMAL SWITCH Thermal protec: BIMETAL THERMAL SWITCH Motor cable: 4 m Cable type: H07 RN-F Type of cable plug: CEE 3P+N+E Mains cable: 1.5 m Cable size: 4X1,5+2X1 Mains cable: H05 VV-F Controls: Type of control box: LC221.2 Operation mode: Operation mode: S3-50%,1MIN Tank: Total effective volume of collecting tank 49 J Total effective volume of collecting tank 49 J 69 J Total effective volume of collecting tank 86 J	-		
Enclosure class (IEC 34-5): IP68 Insulation class (IEC 85): F Motor protec: BIMETAL THERMAL SWITCH Thermal protec: BIMETAL THERMAL SWITCH Motor cable: 4 m Cable type: H07 RN-F Type of cable plug: CEE 3P+N+E Mains cable: 1.5 m Cable size: 4X1,5+2X1 Mains cable: H05 VV-F Controls: Type of control box: LC221.2 Operation mode: S3-50%, 1MIN Tank: Total effective volume of collecting tank 49 at 180 mm inlet: Total effective volume of collecting tank 69 Total effective volume of collecting tank 69			
nsulation class (IEC 85): F Motor protec: BIMETAL THERMAL SWITCH Thermal protec: BIMETAL THERMAL SWITCH Motor cable: 4 m Cable type: H07 RN-F Type of cable plug: CEE 3P+N+E Mains cable: 1.5 m Cable size: 4X1,5+2X1 Mains cable: H05 VV-F Controls: Type of control box: LC221.2 Operation mode: S3-50%,1MIN Tank: Total volume of tank(s): 130 l Total effective volume of collecting tank 49 l at 180 mm inlet: Total effective volume of collecting tank 86 l			
Motor protec: BIMETAL THERMAL SWITCH Thermal protec: BIMETAL THERMAL SWITCH Motor cable: 4 m Cable type: H07 RN-F Type of cable plug: CEE 3P+N+E Mains cable: 1.5 m Cable size: 4X1,5+2X1 Mains cable: H05 VV-F Controls: Type of control box: LC221.2 Operation mode: S3-50%,1MIN Tank: Total volume of tank(s): 130 I Total effective volume of collecting tank 49 I at 180 mm inlet: Total effective volume of collecting tank 69 I total effective volume of collecting tank 86 I			
SWITCH Thermal protec: BIMETAL THERMAL SWITCH Motor cable: 4 m Cable type: H07 RN-F Type of cable plug: CEE 3P+N+E Mains cable: 1.5 m Cable size: 4X1,5+2X1 Mains cable: H05 VV-F Controls: Type of control box: LC221.2 Operation mode: S3-50%,1MIN Tank: Total effective volume of collecting tank 49 at 180 mm inlet: Total effective volume of collecting tank 69 at 250 mm inlet:	, ,	-	
Thermal protec: BIMETAL THERMAL Wotor cable: 4 m Cable type: H07 RN-F Type of cable plug: CEE 3P+N+E Mains cable: 1.5 m Cable size: 4X1,5+2X1 Mains cable: H05 VV-F Controls: Total effective volume of collecting tank Total effective volume of collecting tank 69 Total effective volume of collecting tank 69	Notor protec:	BIMETAL THERMAL	
SWITCH Motor cable: 4 m Cable type: H07 RN-F Type of cable plug: CEE 3P+N+E Mains cable: 1.5 m Cable size: 4X1,5+2X1 Mains cable: H05 VV-F Controls: Type of control box: LC221.2 Operation mode: S3-50%,1MIN Tank: Total effective volume of collecting tank 49 at 180 mm inlet: Total effective volume of collecting tank 69 at 250 mm inlet:	- 1		
Motor cable: 4 m Cable type: H07 RN-F Type of cable plug: CEE 3P+N+E Mains cable: 1.5 m Cable size: 4X1,5+2X1 Mains cable: H05 VV-F Controls: Type of control box: LC221.2 Operation mode: S3-50%,1MIN Tank: Total volume of tank(s): 130 l Total effective volume of collecting tank 49 l at 180 mm inlet: Total effective volume of collecting tank 69 l Total effective volume of collecting tank 86 l	i nermal protec:		
Cable type: H07 RN-F Type of cable plug: CEE 3P+N+E Mains cable: 1.5 m Cable size: 4X1,5+2X1 Mains cable: H05 VV-F Controls: Total size: Type of control box: LC221.2 Operation mode: S3-50%,1MIN Tank: Total effective volume of collecting tank 49 Total effective volume of collecting tank 49 at 180 mm inlet: Total effective volume of collecting tank 86	Motor cable:		
Type of cable plug: CEE 3P+N+E Mains cable: 1.5 m Cable size: 4X1,5+2X1 Mains cable: H05 VV-F Controls: Tope of control box: Type of control box: LC221.2 Dperation mode: S3-50%,1MIN Tank: Total effective volume of collecting tank 49 Total effective volume of collecting tank 49 at 180 mm inlet: Total effective volume of collecting tank 86			
Mains cable: 1.5 m Cable size: 4X1,5+2X1 Mains cable: H05 VV-F Controls: Type of control box: LC221.2 Dperation mode: S3-50%,1MIN Tank: Total volume of tank(s): 130 I Total effective volume of collecting tank 49 I at 180 mm inlet: Total effective volume of collecting tank 69 I at 250 mm inlet: Total effective volume of collecting tank 86 I			
Cable size: 4X1,5+2X1 Mains cable: H05 VV-F Controls: Type of control box: Type of control box: LC221.2 Operation mode: S3-50%,1MIN Tank: Total effective volume of collecting tank 49 at 180 mm inlet: Total effective volume of collecting tank 69 at 250 mm inlet: Total effective volume of collecting tank 86			
Mains cable: H05 VV-F Controls: Type of control box: LC221.2 Operation mode: S3-50%,1MIN Tank: Total volume of tank(s): 130 I Total effective volume of collecting tank 49 I at 180 mm inlet: Total effective volume of collecting tank 69 I at 250 mm inlet:			
Controls:			
Type of control box: LC221.2 Operation mode: S3-50%,1MIN Tank: Image: CEE 3PANAPE 16A red Total offective volume of collecting tank 49 at 180 mm inlet: Image: CEE 3PANAPE 16A red Total effective volume of collecting tank 69 at 250 mm inlet: Image: CEE 3PANAPE 16A red Total effective volume of collecting tank 69 at 250 mm inlet: Image: CEE 3PANAPE 16A red		H05 VV-F	
Operation mode: S3-50%,1MIN Tank: Total volume of tank(s): 130 l Total effective volume of collecting tank 49 l at 180 mm inlet: Lc Total effective volume of collecting tank 69 l at 250 mm inlet: Lc Total effective volume of collecting tank 86 l			
Tank: Total volume of tank(s): 130 l Total effective volume of collecting tank 49 l at 180 mm inlet: Image: Cee gravity of the second secon	Type of control box:	LC221.2	N
Tank: Total volume of tank(s): 130 l Total effective volume of collecting tank 49 l at 180 mm inlet: Image: Cee gravity of the second secon	Operation mode:	S3-50%,1MIN	PE
Total volume of tank(s): 130 l Total effective volume of collecting tank 49 l at 180 mm inlet: Total effective volume of collecting tank 69 l at 250 mm inlet: Total effective volume of collecting tank 86 l	Tank:		
Total effective volume of collecting tank 49 at 180 mm inlet: Total effective volume of collecting tank 69 at 250 mm inlet: Total effective volume of collecting tank 86		130	CEE 3P+N+PE 16A red
Total effective volume of collecting tank 691 at 250 mm inlet: Total effective volume of collecting tank 861	Total effective volume of collecting tank		■ 3P-N- @
Total effective volume of collecting tank 86 l at 315 mm inlet:	Total effective volume of collecting tank at 250 mm inlet:	69 I	
	Total effective volume of collecting tank at 315 mm inlet:	86 I	



Company name: Created by: Phone:

Date:

01/02/2021

Description Net weight: Finnish LVI No.: **Value** 126 kg 4965387

