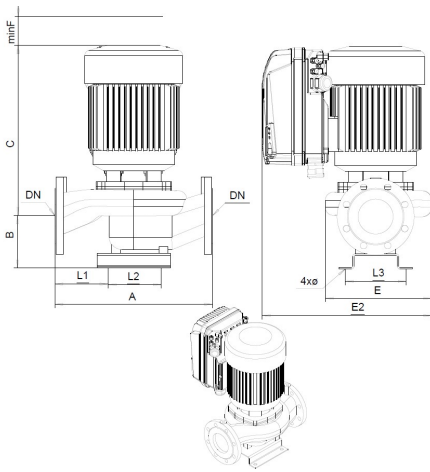


		AL_-1102/2 MD 4kW		Item		Page: 1																							
		Receiver		From																									
Company name																													
Department																													
Phone number																													
Fax no.																													
e-mail address																													
Requested data																													
Fluid	Water		Nominal flow		l/s																								
Solids	Type		Nominal head		m																								
	Weight %	0	Static head		m																								
pH-value at t A				Available system NPSH		m																							
Operating temperature t A		°C	20	Inlet pressure		kPa	0																						
Density at t A		kg/m³	998.3	Altitude		m	100																						
Kin. viscosity at t A		cSt	1.005																										
Vapour pressure at t A		kPa	2.34																										
Pumpenbezeichnung AL-1102/2MD 4 kW																													
Pumppu- ja positionumerot				Impeller type																									
Frame size				Impeller construction																									
Design		In-line pump with frequency converter MD		Impeller Ø	Max.	mm	128																						
Weight		85			Designed	mm	128																						
Self-suctioning		☐ Yes			Min.	mm	128																						
Speed		1/min	3300	Flow	Nominal	l/s	19.3																						
Max. operating pressure		kPa	180		Max-	l/s	33.6																						
Max. diff. pressure		kPa	180		Min-	l/s	0																						
No. stages		1		Head	Nominal	m																							
No. diffusers		1			@ Qmax	m	2.64																						
					@ Qmin	m	18.4																						
Suction port	Pressure rating			Head H(Q=0)		m	18.4																						
	Nominal pipe size			NPSH 3%		m																							
	Standard			Shaft power		kW																							
Discharge port	Pressure rating			Max. shaft power at max. impeller		kW	4.29																						
	Nominal pipe size			Efficiency																									
Standard																													
Materials Pump parts																													
Pump	Pump: Grey cast iron PN10		Shaft seal		Standard seal																								
Impeller	Cast iron																												
																													
Dimensions mm <table> <tr><td>A</td><td>450</td></tr> <tr><td>B</td><td>150</td></tr> <tr><td>C</td><td>475</td></tr> <tr><td>DN</td><td>DN100</td></tr> <tr><td>E</td><td>305</td></tr> <tr><td>E2</td><td>385</td></tr> <tr><td>L1</td><td>140</td></tr> <tr><td>L2</td><td>170</td></tr> <tr><td>L3</td><td>170</td></tr> <tr><td>minF</td><td>150</td></tr> <tr><td>Ø</td><td>16</td></tr> </table>								A	450	B	150	C	475	DN	DN100	E	305	E2	385	L1	140	L2	170	L3	170	minF	150	Ø	16
A	450																												
B	150																												
C	475																												
DN	DN100																												
E	305																												
E2	385																												
L1	140																												
L2	170																												
L3	170																												
minF	150																												
Ø	16																												
Motor				Coupling																									
Type	Kolmeks KP-112-1 F19 4kW		Type																										
Specific design	3-phases motors / 50 Hz / Pole pairs 1		Series																										
Rated power kW	4	Speed 1/min	3000	Spacer length		mm																							
Electric voltage V	3~ 400	Electric current A	7.9	Frame size																									
Degree of protection	IP 54	Frame size	112	Max input current																									
Type of protection	--	Explosion protection		Max input current																									
Remarks:																													
Project		Business process IC		Issue date		Last update																							
				2022-09-07		2022-09-07																							

		Performance curves				Revision number		Page	
		AL_-1102/2 MD 4kW						2	
		Customer				Supplier			
Company name									
Dept.									
Editor									
Phone number									
Fax no.									
E-mail									
Impeller									
Impeller type									
Impeller construction									
Sense of rotation									
Clockwise from the drive end									
Bearing bracket									
Outlet width									
mm									
Frequency									
50 Hz									
Speed									
1/min 3300									
Power data referred to: ; 20°C; 998.3kg/m³; 1.005cSt Reference no. Frame size									
Tolerance according to: No testnorm defined for this product									
The figure consists of three vertically stacked graphs sharing a common x-axis representing Flow rate (Q) in l/s, ranging from 0 to 34. The top graph shows Head (H) in meters (m), with curves for 20Hz, 30Hz, 40Hz, 50Hz, and 55Hz. The middle graph shows Shaft power (P₂) in kilowatts (kW), with curves for 20Hz, 30Hz, 40Hz, 50Hz, and 55Hz. The bottom graph shows Hydraulic efficiency (η) in percent (%), with curves for 20Hz, 30Hz, 40Hz, 50Hz, and 55Hz.									
		Project		Business process ID		Issue date		Last update	
						2022-09-07		2022-09-07	