

Technical data

Pump name

EVMG3 11N5/1.1

Customer	Date 05-June-2019	Company
Contact	Item no.	Issued by
Phone	Project	Phone
E-mail	Project ID	E-mail

Requested data

1	Pump type	VERTICAL PUMPS	Fluid	Water, clean
2	Number of pumps / Reserve	1 / 0	Liquid temperature	°C 20
3	Flow m ³ /h	0	Kin. viscosity	mm ² /s 1
4	Head m	0	Vapour pressure	bar 0.022
5	Static head m	0	PH value	7
6	Inlet pressure bar	0.1	Density	kg/dm ³ 1
7	Available system NPSH	0	Solids	Weight % 0
8	Environmental temperature	°C 20		

Pump

9	Pump name	EVMG3 11N5/1.1	Frequency	Hz 50
10	Design	VERTICAL PUMPS	Installation type	STANDARD
11	Manufacturer	EMC	Impeller Diameter	Max. mm 89
12	Speed 1/min	2850		Designed mm 89
13	No. of Stage	11		Min. mm 89
14	Connection Suction side		Flow	Operating m ³ /h
15	Connection Discharge side			Max- m ³ /h 4.5
16	Max Working Pressure bar	16		Min- m ³ /h 1.2
17	Shut-off head bar	9.98	Head	Operating m
18	Total weight kg	See the table of "Dimensions".		- (Qmax.) m 36.8
19	Shaft power kW			- (Qmin.) m 92.2
20			Max. Shaft Power at max. impeller	kW 1.02
21	Required NPSH m		Efficiency	%

Materials

22	Impeller	AISI 304		
23	Intermediate casing	AISI 304		
24	Bottom casing	Cast Iron		
25	Shaft	AISI 316		
26				
27				

Motor

28	Manufacturer	LAFERT	Insulation class	F
29	Type	TEFC_EVM3 11N5/1.1_230_ Three Phase	Phases	3~
30	Specific design	IE2 / 50 Hz / Pole pairs 1	Frame size	80
31	Rated power kW	1.1	Weight	kg 11.1
32	Number of poles	2	Electric voltage	V 230
33	Speed 1/min	2880	Electric current	A 4.3
34	Degree of protection	IP 55		
35				

Remarks

Performance curve Pump name EVMG3 11N5/1.1

Customer	Date 05-June-2019	Company
Contact	Item no.	Issued by
Phone	Project	Phone
E-mail	Project ID	E-mail

Requested data

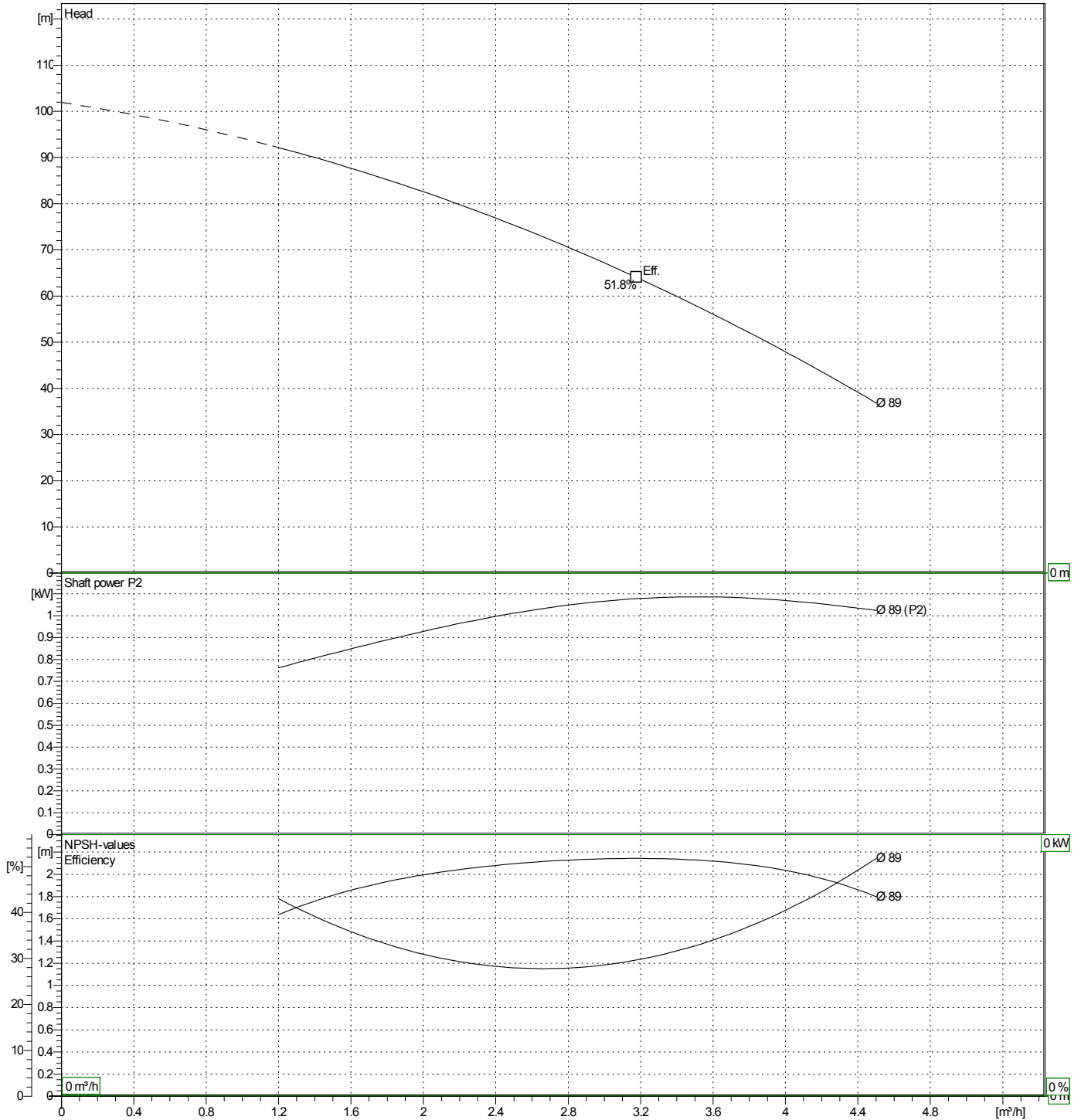
1	Flow	m³/h	0
2	Head	m	0
3	Static head	m	0

Pump

Operating Flow	m³/h		Frequency	Hz	50
Operating Head	m		Number of poles		2
Impeller Diameter	Designed mm	89	Speed	1/min	

Test standard: ISO 9906:2012 - Grade3B

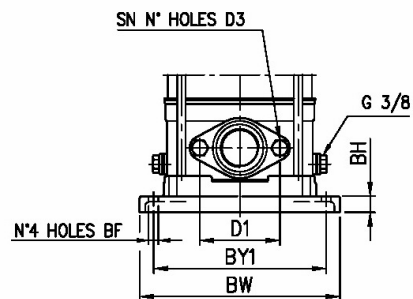
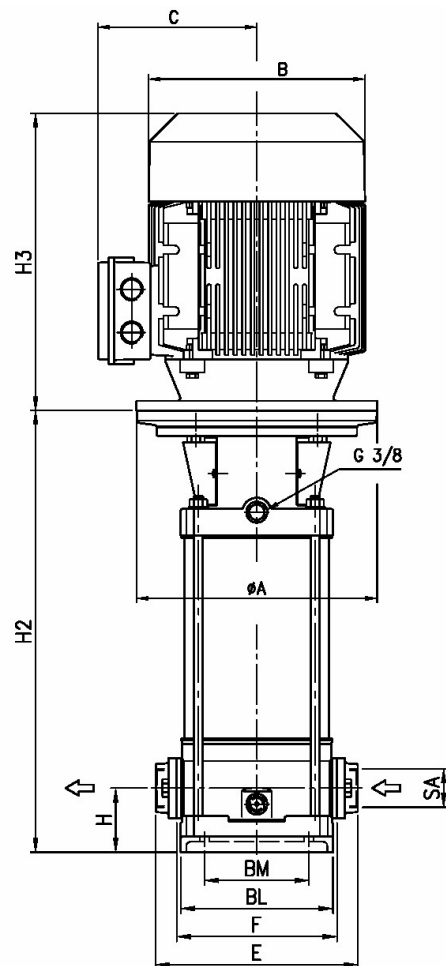
Water, clean [100%] ; 20°C; 0.9983kg/dm³; 1mm²/s



Dimensions

Pump name EVMG3 11N5/1.1

Customer	Date 05-June-2019	Company
Contact	Item no.	Issued by
Phone	Project	Phone
E-mail	Project ID	E-mail

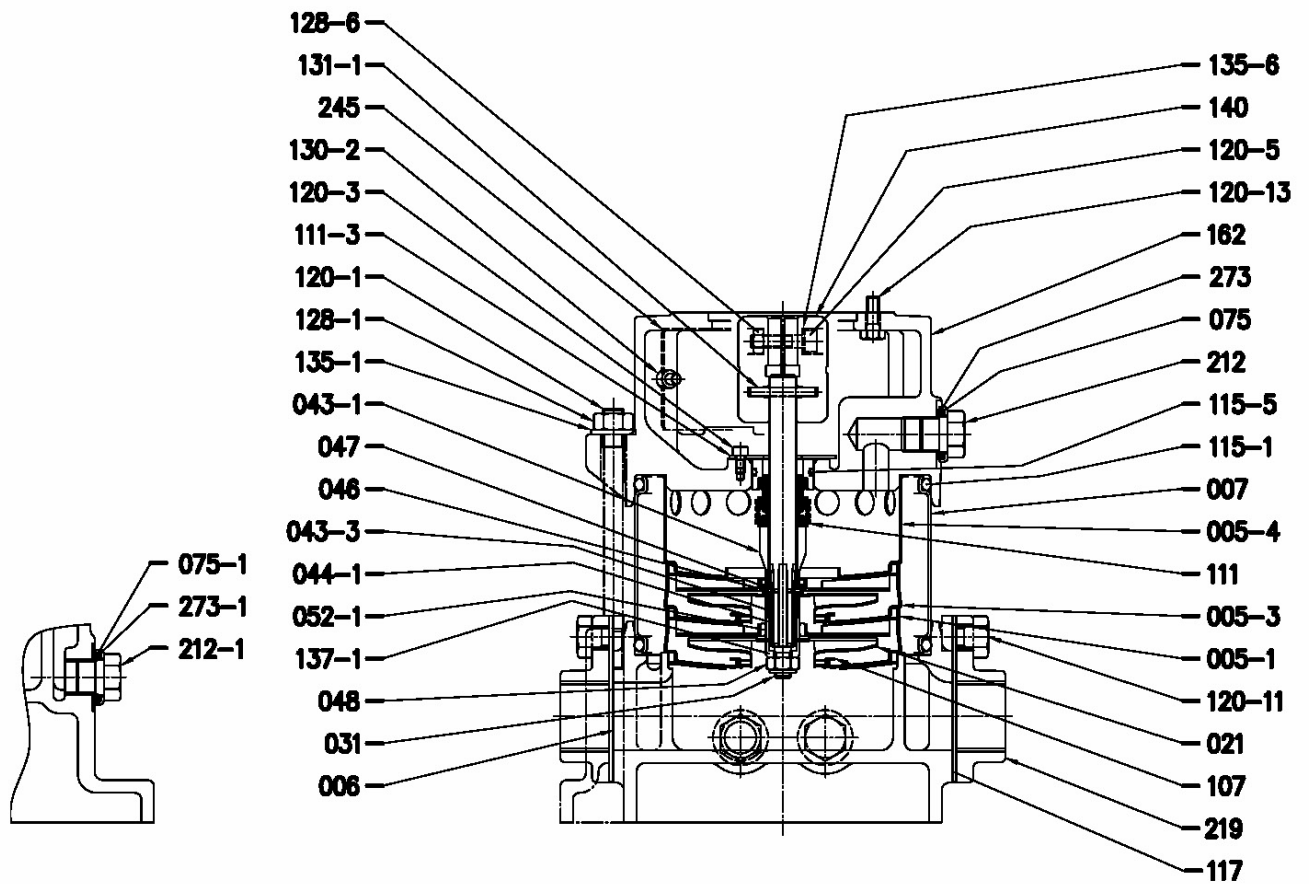


Dimensions in		mm					
1	A	Dia 120	H	50			
2	B	160	H2	440			
3	BF	Dia 12	H3	232			
4	BH	20	SA	G 1			
5	BL	149	SN	2			
6	BM	100	Weight kg	27.3			
7	BW	210					
8	BY 1	180					
9	C	139					
10	D1	75					
11	D3	M10					
12	E	206					
13	F	160					

(1/3) Construction

Pump name EVMG3 11N5

Customer	Date 05-June-2019	Company
Contact	Item no.	Issued by
Phone	Project	Phone
E-mail	Project ID	E-mail



(2/3) Construction

Pump name EVMG3 11N5

Customer	Date 05-June-2019	Company
Contact	Item no.	Issued by
Phone	Project	Phone
E-mail	Project ID	E-mail

N°	PART NAME	MATERIAL			DIMENSIONS	STANDARD	Q.TY
		EVMG	EVM	EVML			
005-1	Suction casing	EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)			1
005-3	Intermediate casing bearing	EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)			[1]
005-4	Discharge casing	EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)			1
006	Bottom casing	Cast iron EN-GJL-200-EN 1561	EN 1.4301(AISI 304)	EN 1.4401 (AISI 316)			1
007	Outer casing	EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)			1
021	Impeller	EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)			[1]
031	Shaft		EN 1.4401 (AISI 316)				1
043-1	Shaft sleeve (mechanical seal)	EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)			1
043-3	Shaft sleeve (bearing)	EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)			[1]
044-1	Shaft sleeve bearing		Tungsten carbide				[1]
046	Split ring (mechanical seal)	EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)			[1]
047	Ring holder	EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)			1
048	Impeller nut	A2-70 UNI 7323 with inox insert		A4-70 UNI 7323 with inox insert	M8		1
052-1	Bearing		Tungsten carbide				[1]
075	O-ring (plug)		EPDM	FPM			1
075-1	O-ring (plug)	EVM, EVML EVMG	EPDM	FPM			2
107	Liner ring		PTFE / EN 1.4301 (AISI 304)	PTFE / EN 1.4401 (AISI 316)			4
111	Mechanical seal		Silicon carbide/Carbon/EPDM	Silicon carbide/Carbon/FPM			[1]
111-3	Mechanical seal seat		EN 1.4301(AISI 304)	EN 1.4401 (AISI 316)			1
115-1	O-ring (outer casing)		EPDM	FPM	129.54x5.34	OR 6510	2
115-5	O-ring		EPDM	FPM	23.47x2.62	OR 3093	1
117	Flange gasket	EPDM	/	/			[1]
120-1	Tie rod		Zincate steel 6.8 strenght class ISO 898/1				4
120-3	Screw		A2-70 UNI 7323		M4x6	UNI 5931	4
120-5	Screw for coupling		Zincate steel 8.8 strenght class ISO 898/1		M6x25	UNI 5931	[1]
120-11	Screw for counterflange		A2-70 UNI 7323		M10x20	UNI 5739	[1]
120-13	Screw for motor	EVMG 2 to 11, EVM6 2 to 6 EVM6 13 to 15, EVM6 7 to 8 EVMG 18 to 26, EVM6 10 to 22 EVM6 24	Zincate steel 8.8 strenght class ISO 898/1		M6x16 M6x20 M6x30 M12x25	UNI 5739 UNI 5739 UNI 5739 UNI 5739	4
128-1	Nut for tie rod		Zincate steel		M10	UNI 5598	4
128-6	Nut for coupling		Zincate steel		M6	UNI 5598	[1]
130-2	Screw for coupling guard		A2-70 UNI 7323		M5x6	UNI 7687	4
131-1	Pin for shaft		Carbon steel				1
135-1	Washer		Zincate steel		10.5x21x2	UNI 6592	4
135-6	Washer knurled		Carbon steel		D6		[1]
137-1	Impeller spacer		EN 1.4301(AISI 304)	EN 1.4401 (AISI 316)			1
140	Coupling	UP TO 1.5 kW 2.2 kW AND ABOVE	Die cast Aluminium EN AB-AISI11 Cu2 (Fe) Brass OT 58 UNI 5705				2
162	Motor bracket		Cast iron EN-GJL-200-EN 1561	Cast iron + EN 1.4301(AISI 304)	Cast iron + EN 1.4401 (AISI 316)		1
212	Plug		EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)		1
212-1	Plug	EVM, EVML EVMG	EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)		2
219	Counter flange		Zincate steel	EN 1.4301(AISI 304)	EN 1.4401 (AISI 316)		[1]
245	Coupling guard		EN 1.4301(AISI 304)				2
273	Washer (plug)		EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)		1
273-1	Washer (plug)	EVM, EVML EVMG	EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)		2
							4

[1] See table on CONSTRUCTION 3

(3/3) Construction

Pump name EVMG3 11N5

Customer	Date 05-June-2019	Company
Contact	Item no.	Issued by
Phone	Project	Phone
E-mail	Project ID	E-mail

Pump Type EVM(.)	Quantity for model																										
	005-2	005-3	021	043-2	043-3	043-5	043-6	044-1	046	051	052-1	056	Bearing type	107	115-3	117	120-5	120-6	120-8	120-11	128-6	130-4	135-6	150	219	274-2	274-3
3 2N5/0.37	/	1	2	/	1	/	/	1	1	/	1	/	/	2	2	2	4	/	/	4	4	/	4	/	2	/	/
3 3N5/0.37	1	1	3	1	1	/	/	1	1	/	1	/	/	3	2	2	4	/	/	4	4	/	4	/	2	/	/
3 4N5/0.55	2	1	4	2	1	/	/	1	1	/	1	/	/	4	2	2	4	/	/	4	4	/	4	/	2	/	/
3 5N5/0.55	3	1	5	3	1	/	/	1	1	/	1	/	/	5	2	2	4	/	/	4	4	/	4	/	2	/	/
3 6N5/0.75	4	1	6	4	1	/	/	1	1	/	1	/	/	6	2	2	4	/	/	4	4	/	4	/	2	/	/
3 7N5/0.75	5	1	7	5	1	/	/	1	1	/	1	/	/	7	2	2	4	/	/	4	4	/	4	/	2	/	/
3 9N5/1.1	7	1	9	7	1	/	/	1	1	/	1	/	/	9	2	2	4	/	/	4	4	/	4	/	2	/	/
3 11N5/1.1	9	1	11	9	1	/	/	1	1	/	1	/	/	11	2	2	4	/	/	4	4	/	4	/	2	/	/
3 13N5/1.5	10	2	13	10	2	/	/	2	1	/	2	/	/	13	2	2	4	/	/	4	4	/	4	/	2	/	/
3 15N5/1.5	12	2	15	12	2	/	/	2	1	/	2	/	/	15	2	2	4	/	/	4	4	/	4	/	2	/	/