

Q = Flow rate H = Total manometric head

Tolerance of the performance curves according to EN ISO 9906 App. A.

TYPE		POWER		m <sup>3</sup> /h l/min	0	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6	10.8	12.0	13.2	14.4	15.6	16.8	18.0		
Single-phase	Three-phase	kW	HP		0	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300		
F1/30M	-	0.25	0.33	H metres	7.5	6.5	5.8	5	4.3	3.5	2.8	2										
F1/50M	F1/50	0.37	0.50		10	9.5	8.8	8	7.3	6.5	5.8	5	4.3	3.5	2.8	2						
F1/70M	F1/70	0.55	0.75		17	16	15	13.8	12.8	11.7	10.5	9.5	8.5	7.3	6.3	5.2	4	3				
F1/100M	F1/100	0.75	1		20	19	18	16.8	15.8	14.7	13.5	12.5	11.5	10.5	9.3	8.2	7.2	6	5			
F1/150M	F1/150	1.1	1.5		23	22	21	20	18.8	17.7	16.5	15.5	14.5	13.5	12.4	11.3	10.2	9	8	7		

## DIMENSIONS AND WEIGHTS

TYPE		PORT DN	DIMENSIONS mm							kg	
Single-phase	Three-phase		a	h	h1	d	e	p	∅	1~	3~
F1/30M	-	1 1/4"	147	255	247	17	adjustable	350	350	4.7	-
F1/50M	F1/50									5.7	5.5
F1/70M	F1/70									12.0	10.7
F1/100M	F1/100	1 1/2"	215	355	336	30		500	500	13.0	11.7
F1/150M	F1/150									14.0	12.7



#### RANGE OF PERFORMANCE

Flow rate up to 300 l/min (18 m<sup>3</sup>/h)

Head up to 23 m

#### LIMITS OF USE

Depth up to 10 m

Liquid temperature up to + 50°C

Liquid temperature up to + 60°C for intermittent duty.

Liquid temperature up to + 90°C for intermittent duty maximum 3 minutes.

Passage of solid bodies up to  $\varnothing$  10 mm

Drainage level:

14 mm from the bottom for F1 1-2

30 mm from the bottom for F1 3-4-5

#### INSTALLATION AND USE

F1 PUMPS ARE SUITABLE FOR DRAINING CLEAR WATER WITHOUT ABRASIVE PARTICLES. THE CONSTRUCTION GUARANTEES SIMPLE AND SAFE OPERATION DUE TO THE COMPLETE COOLING OF THE MOTOR BY THE PUMPED WATER, AND THE DOUBLE SEAL DESIGN. THEY ARE RECOMMENDED FOR FIXED INSTALLATIONS, EMERGENCY DRAINING OF SMALL FLOODED AREAS (BASEMENT ROOMS, CELLARS, GARAGES), FOR DISPOSAL OF DIRTY WATER USED IN THE HOME BY WASHING MACHINES AND DISHWASHERS AND FOR DRAINING COLLECTION TRAPS.

**GUARANTEE 2 YEARS** subject to our general terms of sale.

#### CONSTRUCTION CHARACTERISTICS

- **DELIVERY BODY:** stainless steel AISI 304, with threaded port ISO 228/1.
  - **SUCTION GRID:** stainless steel AISI 304.
  - **IMPELLER:** stainless steel AISI 304.
  - **MOTOR SUPPORT:** stainless steel AISI 304.
  - **MOTOR SHAFT:** stainless steel EN 10088-3 - 1.4104.
  - **DOUBLE SEAL:** mechanical seal ceramic - graphite - NBR, with oil barrier chamber and inner lip seal to protect the seal in the event of dry running.
  - **MOTOR:** submersible asynchronous single-phase for continuous duty.
- F1 M:** single-phase 220÷240 V - 50 Hz with capacitor and thermal overload protector.
- F1:** three-phase 380÷415 V - 50 Hz.
- **INSULATION:** class F.
  - **PROTECTION:** IP 68.

#### STANDARD FEATURES:

**F1 M** (single-phase)

- float switch.
- Neoprene power cable "H05 RN-F"
- length **5 metres** with Schuko plug.

**F1** (three-phase)

- Neoprene power cable "H05 RN-F" length **5 metres**.

#### OPTIONS ON REQUEST

- ⇒ special mechanical seal
- ⇒ 10 metres power cable. N.B. required for outdoor



- ⇒ use to comply with standard EN 60335-2-41
- ⇒ control box for three-phase electropumps 1.1 kW
- ⇒ single-phase versions without float switch
- ⇒ other voltages or frequency 60 Hz

#### CONSTRUCTION AND SAFETY STANDARDS

EN 60 335-1

EN 60034-1

IEC 335-1

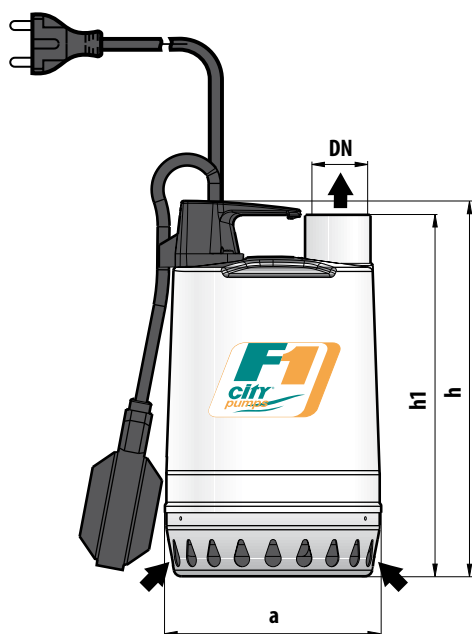
IEC 34-1

CEI 61-150

CEI 2-3



## DIMENSIONS



#### Typical single-phase installation

