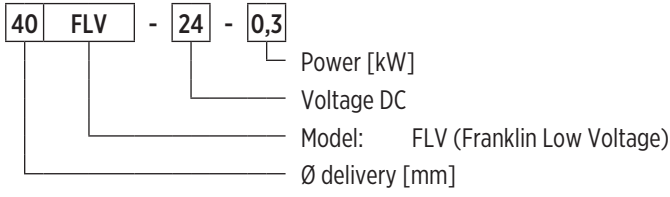


FLV Series - D.C. motor submersible waste water lift pumps 50 Hz



D.C. MOTOR SUBMERSIBLE WASTE WATER LIFT PUMPS

PUMP IDENTIFICATION CODE



0040088 01/2023

40FLV SERIES 50 HZ

FEATURES & BENEFITS

APPLICATIONS



Drainage



Domestic / industrial
grey water



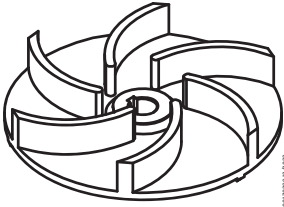
MARKETS



RESIDENTIAL

D.C. MOTOR SUBMERSIBLE WASTE WATER LIFT PUMPS

The D.C. electric submersible pumps are suitable for the lift of water from road drain wells, basements and from sites where the electric current is not available. Easy to install and silent, this model offers the maximum safety.



© 2018 Franklin Electric

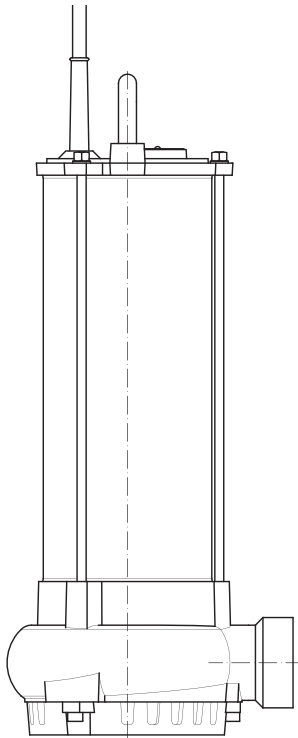
VORTEX IMPELLER

GENERAL FEATURES

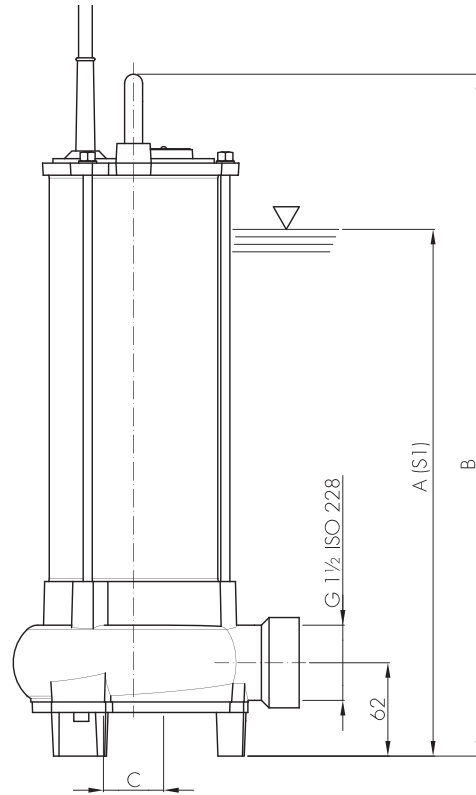
Materials/Constr.design		
Vortex impeller		Cast iron EN GJL200
External casing		Stainless steel AISI304
Pump body		Cast iron EN GJL200
Cover		Cast iron EN GJL200
Mechanical seal	motor side 40FLV-24-0,3, 40FLV-24-0,5, 40FLV-24-0,75	Seal ring
	pump side 40FLV-24-0,3, 40FLV-24-0,5, 40FLV-24-0,75	Graphite/Alumina
	pump side 40FLV-12-0,3	Silicon carbide (SiC/SiC)
Motor shaft		Stainless steel AISI416
Power cable		5 m H07RN-F type, 2x6mm ²
Motor		
Constr.design		D.C. permanent magnet in dry chamber
Type		-
Insulation class		F
Protection degree		IP68
Main voltage values and relative tolerance in relation to the rated voltage value:		24V C.C. +10% / -5% 12V C.C. +10% / -5%
Limits of use		
Maximum liquid temperature		+40 °C
pH of pumped liquid		6 - 10
Liquid density		1,0 kg/dm ³
Maximum immersion depth:		2 m
Free passage		20 mm
Min. immersion depth for continuous service	40FLV-24-0,3, 40FLV-12-0,3,40FLV-24-0,5	300 mm
	40FLV-24-0,75	350 mm
Max. number of starting/hour		20
Construction options		

- Mechanical seal in Silicon carbide (SiC/SiC)
- Model 40FLV-12-0,3 with 10 m 1x16mm² cable and battery clamps
- Inlet with strainer (free passage 8 mm)

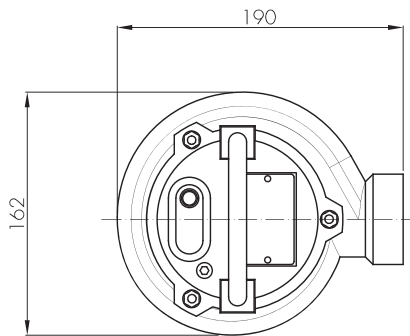
DIMENSIONAL DRAWINGS



Version with filter on request



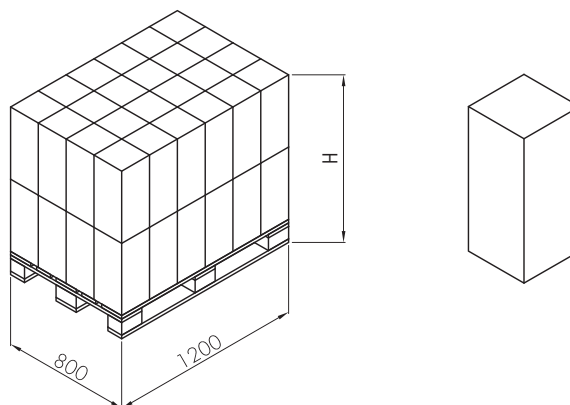
Dimensions [mm]			
Pump model	A	B	C
40FLV-24-0,3	300	402	30
40FLV-24-0,5	300	402	30
40FLV-24-0,75	350	453	40
40FLV-12-0,3	300	402	30



00130295 02/2023

Packaging		
Pump model	Dimensions [mm]	Weight [kg]
40FLV-24-0,3	220x180x450	11,5
40FLV-24-0,5	220x180x450	12,5
40FLV-24-0,75	220x200x450	17,7
40FLV-12-0,3	220x180x450	11,5

Pallet			
Pump model	Dimensions [mm]	N° of pumps	Weight [kg]
40FLV-24-0,3	800x1200x800	32	400
40FLV-24-0,5	800x1200x800	32	440
40FLV-24-0,75	800x1200x900	24	460
40FLV-12-0,3	800x1200x800	32	400



00130296 02/2023

TECHNICAL DATA

Pump model	Motor absorbed power P ₁	Rated power P ₂		Voltage	Rated current	Power cable		Delivery port	Weight [kg]
	[kW]	[kW]	[HP]	[V]	[A]	length [m]	Type		
40FLV-24-0,3	0,4	0,3	0,4	24DC	17	5	2X6	G1½	11
40FLV-24-0,5	0,62	0,5	0,7	24DC	26	5	2X6	G1½	12
40FLV-24-0,75	0,84	0,75	1	24DC	35	5	2X6	G1½	17
40FLV-12-0,3	0,4	0,3	0,4	12DC	34	5	2X6	G1½	11

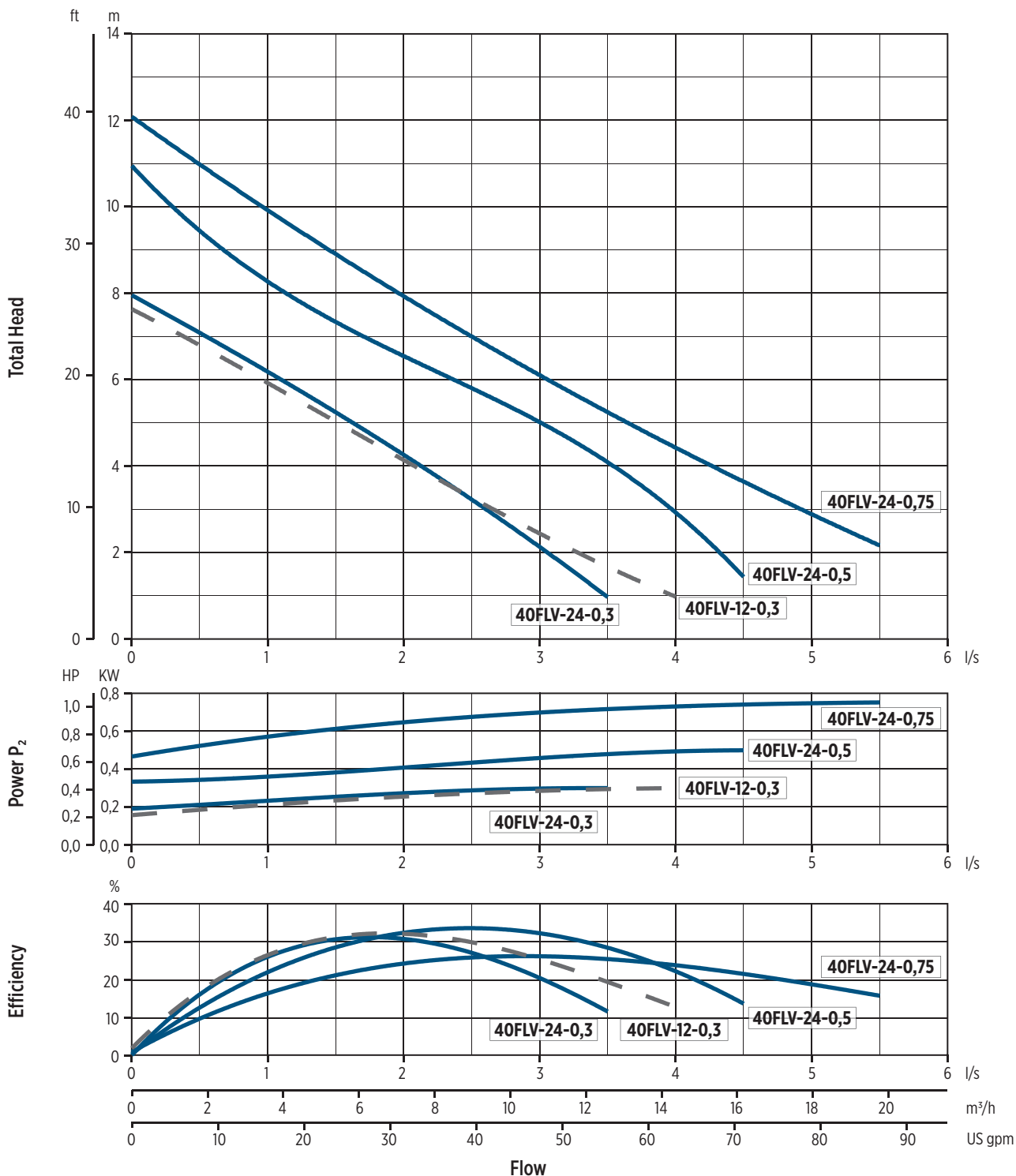
“-” = not available

• = available

HYDRAULIC PERFORMANCE AT 50 HZ

Pump model	Voltage	Q = Delivery											
		l/sec 0	0,5	1	1,5	2	2,5	3	3,5	4	4,5	5	5,5
		m ³ /h 0	1,8	3,6	5,4	7,2	9	10,8	12,6	14,4	16,2	18	19,8
	US gpm 0	7,9	15,8	23,7	31,7	39,6	47,5	55,5	63,4	71,3	79,2	87,2	
	[V]	H = Total meters head of water column [m]											
40FLV-24-0,3	24DC	8	7	6,2	5,3	4,3	3,2	2,1	1				
40FLV-24-0,5	24DC	10,9	9,7	8	7,1	6,8	6	5	3,9	2,9	1,5		
40FLV-24-0,75	24DC	12	11	10	9	8	7	5,8	5,1	4,5	3,9	3	2
40FLV-12-0,3	12DC	7,5	7	6	5	4	3,1	2,5	2	0,8			

PERFORMANCE CURVES AT 50 HZ



00201005_02/2023

INSTALLATION

INSTALLATION INSTRUCTIONS

TRANSPORTABLE INSTALLATION

Transportable as emergency pump with connection to the hose and for free installation in the well.

