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50Hz

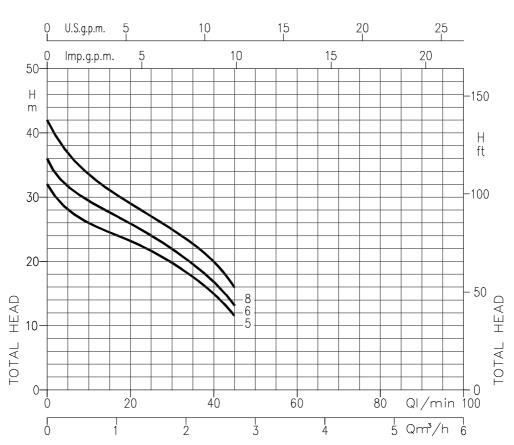
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SPECIFICATION

	PUMP								
Liquid	Type of liquid		Clean water						
Handled	Temperature	[°C]	min. +5						
Tianuleu	remperature	[0]	max. +45						
Maximum woi	king pressure	[MPa]	0.6						
Maximum suc	tion depth	[m]	8						
	Impeller		Closed centrifugal type						
Construction	Shaft seal type		Mechanical seal						
	Bearing		Sealed ball bearing						
Pipe	Suction	[inch]	G 1" UNI ISO 228						
Connection	Discharge	[inch]	G 1" UNI ISO 228						
	Casing		AISI 304						
	Impeller		PPE+PS glass fibre reinforced						
	Casing cover		AISI 304						
	Shaft seal		Ceramic/Carbon/NBR						
Material	Shaft		AISI 303 (Wet extension)						
	Stages		-						
	Ejector		PPE+PS glass fibre reinforced						
Bracket			Aluminium						
	Diffuser		PPE+PS glass fibre reinforced						
Applicable sta	indard of test		ISO 9906:2012 – Grade 3B						

	MOTOR								
Turne		Electric	- TEFC						
Туре		Single Phase	Three Phase						
No. of Poles		2	2						
Rotation speed	[min ⁻¹]	≈ 28	300						
Insulation Class		F							
Protection degree (CEI EN 60034-5)		IP	54						
		IP 55 (on request)							
Power rating	[kW]	0.37 ÷ 0.6							
Fower failing	[HP]	0.5 ÷ 0.8							
Frequency	[Hz]	5	0						
Voltage	[V]	230 ±10%	230/400 ±10%						
Capacitor		Built in	-						
Over load protection		Built in Provided by the u							
Casing material		Aluminium							
Motor support		Aluminium							
Dimensions of cable entry		PG 11 (see dimensions page 400)							

SELECTION CHART



PERFORMANCE RANGE

SELECTION CHART

Pump Type		Power		Q=Capacity						
runp	Туре	Power		l/min	0	5	20	40	45	
Single Dhose		[[_]]]		m∛h	0	0.3	1.2	2.4	2.7	
Single Phase	Three Phase	[κνν]	[kW] [HP]		H=Total manometric head in meters					
JESXM5	JESX 5	0.37	0.5		32	28	23	15	11.5	
JESXM 6	JESX 6	0.44	0.6		36	31.5	26	17	13.5	
JESXM 8	JESX 8	0.6	0.8		42	37	29	20	16	



JESX

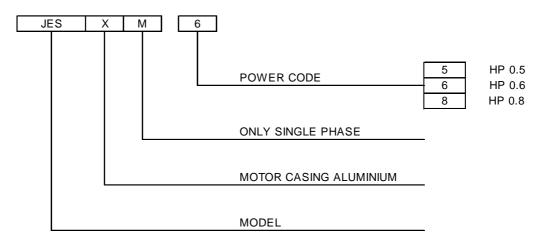
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TYPE KEY AND CURVE SPECIFICATIONS

50Hz

JESX

TYPE KEY



PERFORMANCE CURVE SPECIFICATIONS

The specifications below qualify the curves shown on the following pages.

Tolerances according to ISO 9906:2012 - Grade 3B

The curves refer to effective speed of asynchronous motors at 50 Hz, 2 poles.

Measurements were carried out with clean water at 20°C of temperature and with a kinematic viscosity of $v = 1 \text{ mm}^2/\text{s}$ (1 cSt)

The NPSH curve is an average curve obtained in the same conditions of performance curves.

The continuous curves indicate the recommended working range. The dotted curve is only a guide. In order to avoid the risk of over-heating, the pumps should not be used at a flow rate below 10% of best efficiency point.

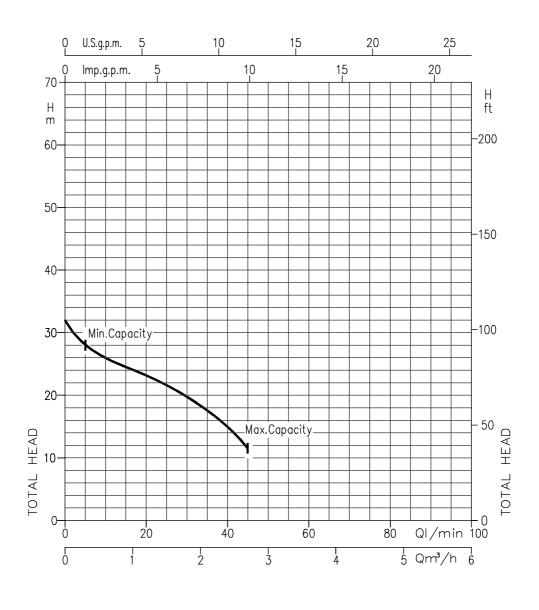
Symbols explanation:

- Q = volume flow rate
- H = total head



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PERFORMANCE CURVE



JESX 5 (0.37 kW) - Impeller diameter = 104 mm

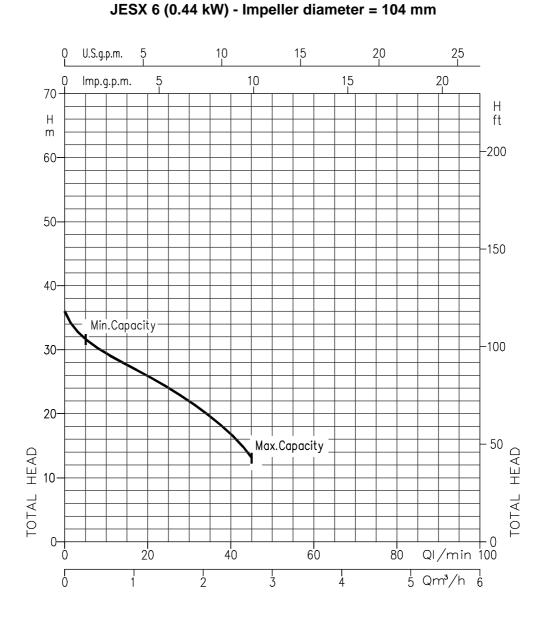
Rotation speed ≈ 2800 min⁻¹ Test standard: ISO 9906:2012 – Grade 3B



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50Hz

PERFORMANCE CURVE



Rotation speed \approx 2800 min⁻¹ Test standard: ISO 9906:2012 – Grade 3B



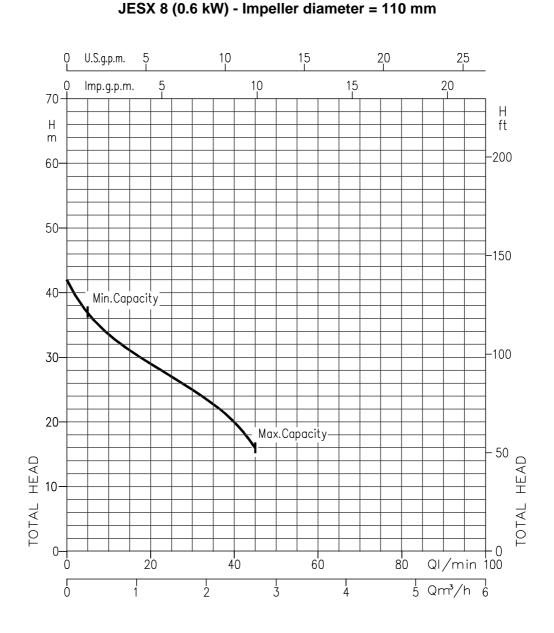
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50Hz

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PERFORMANCE CURVE



Rotation speed ≈ 2800 min⁻¹ Test standard: ISO 9906:2012 - Grade 3B



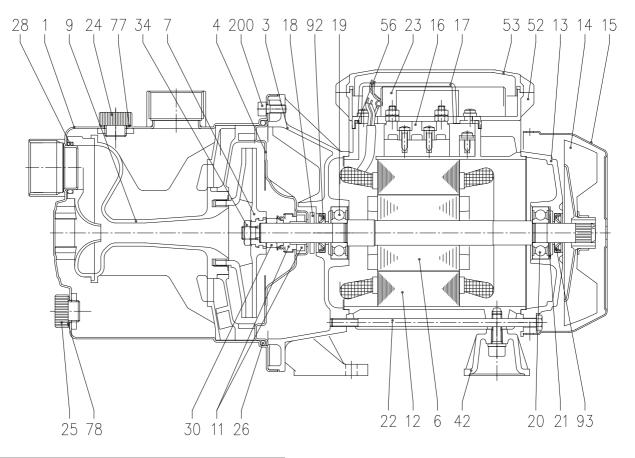
205

50Hz

Rev. G

JESX

SECTIONAL VIEW



N°	PART NAME		MATERIAL	Q.TY
1	Casing		AISI 304	1
3	Motor bracket		Aluminium	1
4	Casing cover		AISI 304	1
6	Shaft with rotor		AISI 303 (Wet extension)	1
7	Impeller		PPE+PS glass fibre reinforced	1
9	Diffuser Venturi tube		PPE+PS glass fibre reinforced	1
11	Mechanical seal	[4]	Carbon/Ceramic/NBR	1
12	Motor frame with stator		-	1
13	Motor cover		Aluminium	1
14	Fan		PA	1
15	Fan cover		Fe P04 Zincate	1
16	Terminal board		-	1
17	Terminal box cover	[2]	Aluminium	1
18	Splash ring		NBR	1
19	Pump side ball bearing		-	1
20	Fan side ball bearing		-	1
21	Adjusting ring		Steel C70	1

N°	PART NAME	MATERIAL	Q.TY	
22	Tie rod		Fe 42 Zincate	4
23	Capacitor	[1]	-	1
24	Priming plug		PA	1
25	Drain plug		PA	1
26	O-ring		NBR	1
28	O-ring		NBR	1
30	Mechanical seal spacer		Brass	1
34	Impeller nut	[2]	AISI 304	1
42	Motor support		Aluminium	1
52	Capacitor box	[1]	ABS	1
53	Capacitor box cover with gasket	[1]	ABS+NBR	1
56	Box gasket		NBR	1
77	O-ring		NBR	1
78	O-ring		NBR	1
92	Lip seal	[3]	-	1
93	Lip seal	[3]	-	1
200	Screw		Stainless steel A2 UNI7323	6

[1] Only for single phase

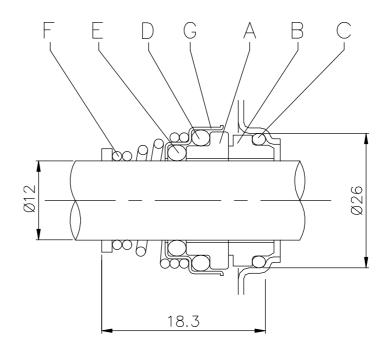
[2] Only for three phase

[3] Only for IP55

[4] See Mechanical Seal dimensions and materials at page 301



MECHANICAL SEAL



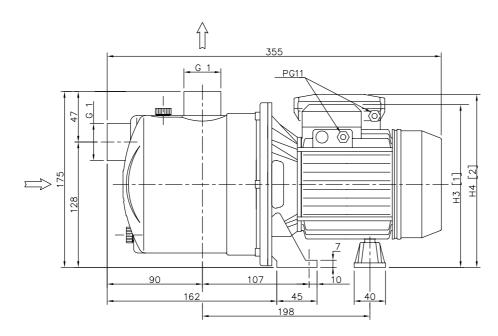
REF	PART NAME	MATERIAL
Α	Rotary seal ring	Ceramic
В	Stationary seal ring	Carbon graphite
С	O Ring	NBR
D	O Ring	NBR
E	O Ring	NBR
F	Self driving spring	AISI 316
G	Frame	AISI 304

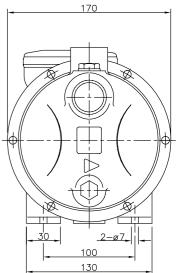
BEARNGS

Pump	type	Ball Bearing			
Single Phase	Three Phase	Pump side	Fan side		
JESXM 5	JESX 5	6201 2RSH	6201 2RSH		
JESXM 6	JESX 6	6201 2RSH	6201 2RSH		
JESXM 8	JESX 8	6201 2RSH	6201 2RSH		



JESX





Pump type	Dimensions [mm]				
JESX	H3	H4			
5	175	200			
6	175	200			
8	175	200			

PUMP

[1] = Three phase [2] = Single phase



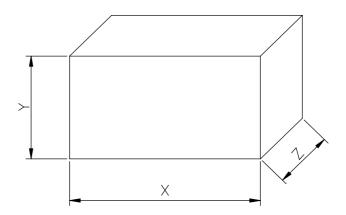
400

JESX

JESX

Rev. G

PACKING



Pump	Р	acking[mi	Weight [kgf]			
Single Phase	Three Phase	Х	Y	Z	[1~]	[3~]
JESXM 5	JESX 5	182	220	372	5.1	5.1
JESXM 6	JESX 6	182	220	372	5.5	5.5
JESXM 8	JESX 8	182	220	372	6.1	6.1

[1~] Single phase

[3~] Three phase



TECHNICAL DATA

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MOTOR DATA

Pumr	o type	Pow	or	Capa	acitor	Inp	out	Full loa	d current		Locked ro	otor curre	ent
Fump	lipe	FOW	CI			[k\	N]		[A]		[[A]	
Single Phase	Three Phase	[kW]	[HP]	Single	Phase	Single	Three	Single Phase	Three	Phase	Single Phase	Three	Phase
Single Phase	Three Flidse	נגעען	[ne]	[µF]	[V]	Phase	Phase	230 V	230 V	400 V	230 V	230 V	400 V
JESXM 5	JESX 5	0.37	0.5	10	450	0.44	0.43	2.1	1.5	0.85	6.3	6.4	3.7
JESXM 6	JESX 6	0.45	0.6	10	450	0.54	0.49	2.4	1.9	1.1	8.5	8.6	5.0
JESXM 8	JESX 8	0.6	0.8	12.5	450	0.63	0.58	3.0	2.25	1.3	10.6	10.7	6.2

NOISE DATA

Pump	Po	wer	L _{pA} - dB(A) *	
Single Phase	Three Phase	[kW]	[HP]	ц _{рА} - ub(д)
JESXM 5	JESX 5	0,37	0,5	
JESXM 6	JESX 6	0,45	0,6	<70
JESXM 8	A 8 JESX 8		0,8	

* Mean value of several measures at 1m distance around the pump. Tollerance ± 2.5 dB.



JESX

INSTALLATION

50Hz

JESX

If you use this pump on suction condition, it tends to breath the air from outside because the pressure in pump becomes vacuum condition when it stopped. So water in the pump sometimes fall down to breath the air from pipe connection. If it is used to operate continuously under this condition, this is the cause of breakdown to overheat inside the pump.

