FAGGIOLATI PUMPS S.p.A.

ITEM	**1**
Name	**GM17A471T1-4V2KA0**

EXECUTION

Submersible Mixer, with multipolar electric motor and self-cleaning 2 blades propeller, completely casted in stainless steel AISI 316L, hydraulic shape designed for high efficiency.

CONSTRUCTION DATA

Weight (Kg)	20
Impeller type	Two Blades Propeller
Cooling	By surrounding fluid
Motor type	M471T-0,7-400/50NN-IE3 - (Watertight, suitable for VFD)
Mechanical prot. Degree	IP 68
Rated motor power (kW)	0,7
Rated current (A)	1,5
Starting type	Direct
Supply	3ph 400V-50Hz
Nominal speed (rpm)	1352
Winding insulation	Class H
Duty service	S1 Continuous
Electric cable	N-Neoprene submersible, length 10 m
Shaft seal	Double Mechanical
Liquid max. temperature (°C)	< 40
Pump protection	-
Surface painting	Epoxy painting
Thrust (N)	120
Propeller diameter (mm)	176

MATERIALS

Shaft	Stainless Steel AISI 431
Impeller	Stainless Steel AISI 316L
Upper seal	Ceramic/Graphite
Lower seal	Silicon Carbide/Silicon Carbide
Screws	A4 Class AISI 316
O-Rings	Nitrile
Ball bearings	Ball Bearings, life lubricated
Vertical orientation device	Stainless steel AISI 304
Motor Casing	Cast Iron EN-GJL-250

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SCHEDA TECNICA
DATA SHEET

Tipo di mixer - *Pump type*	Curva - *Curve*
GM17A471T1-4V2KA0	**E607-405**

Cod. *Code*	Peso totale *Total weight*	Materiale *Construction*	Girante *Impeller*
6001408	**20** Kg	**GHISA EN-GJL-250** / ***CAST IRON EN-GJL-250***	**ELICA** / ***PROPELLER***

Idraulica - *Hydraulic*

DIAMETRO ELICA *PROPELLER DIAMETER*	**176** mm
NUMERO PALE *BLADE NUMBER*	**2**
SPINTA DI REAZIONE *REACTION THRUST*	**120** N
INCLINAZIONE PALE *BLADE ANGLE*	**17** °
POT. ASS. DALLA RETE P1 *ABS. POWER FROM MAINS P1*	**0,6** kW

Motore- *Motor* M471T-0,7-400/50NN-IE3

ALIMENTAZIONE *POWER SUPPLY*	**3ph 400V-50Hz**
CLASSE DI ISOLAMENTO *INSULATION CLASS*	**H**
VELOCITÀ NOMINALE *NOMINAL SPEED*	**1352** rpm
POTENZA NOMINALE MOTORE *RATED MOTOR POWER*	**0,7** kW
CORRENTE DI SPUNTO *STARTING CURRENT*	**6,45** A
CORRENTE NOMINALE *RATED CURRENT*	**1,5** A
MOMENTO DI INERZIA TOTALE *TOTAL MOMENT OF INERTIA*	kgm2

	CARICO-LOADING 4/4	3/4	1/2
FATTORE DI POTENZA *POWER FACTOR*	**0,78**	**0,69**	**0,56**
RENDIMENTO MOTORE *MOTOR EFFICIENCY*	**84** %	**83** %	**83** %

Impiego - *Application*

TEMP. MAX DEL LIQUID *PUMPED LIQUID MAX TEMP.*	**< 40** °C
CODICE DISEGNO *DRAWING CODE*	**GM_07_3**
PROTEZIONE MECCANICA *MECHANICAL PROT. DEGREE*	**IP 68**
CAVO *CABLE*	**4G1,5 H07RNF**

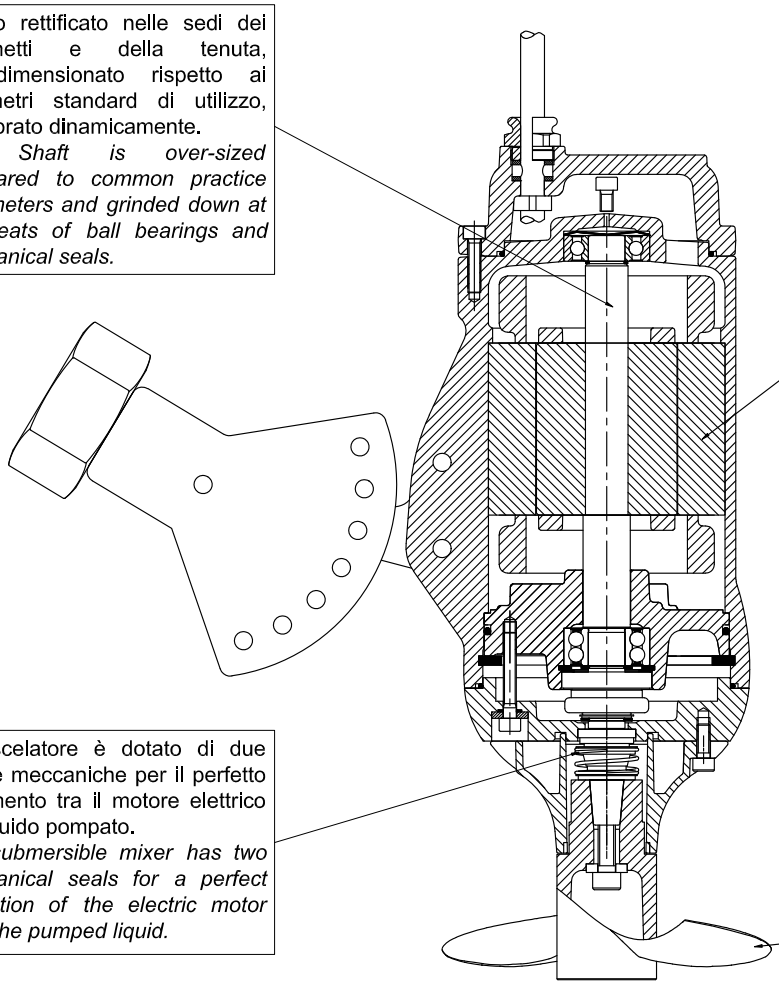
Costruzione -*Construction*

PALO GUIDA *GUIDE BAR*	G2
CONVOGLIATORE *JET RING*	NO

Protezioni - *Protections*

PROTEZIONE TERMICA *THERMAL PROTECTION*	NO
CONTROLLO INFILTRAZIONE *HUMIDITY PROBE*	NO
II 2G Ex c k db IIB T4 Gb	NO

Albero rettificato nelle sedi dei cuscinetti e della tenuta, sovradimensionato rispetto ai parametri standard di utilizzo, equilibrato dinamicamente.
The Shaft is over-sized compared to common practice parameters and grinded down at the seats of ball bearings and mechanical seals.



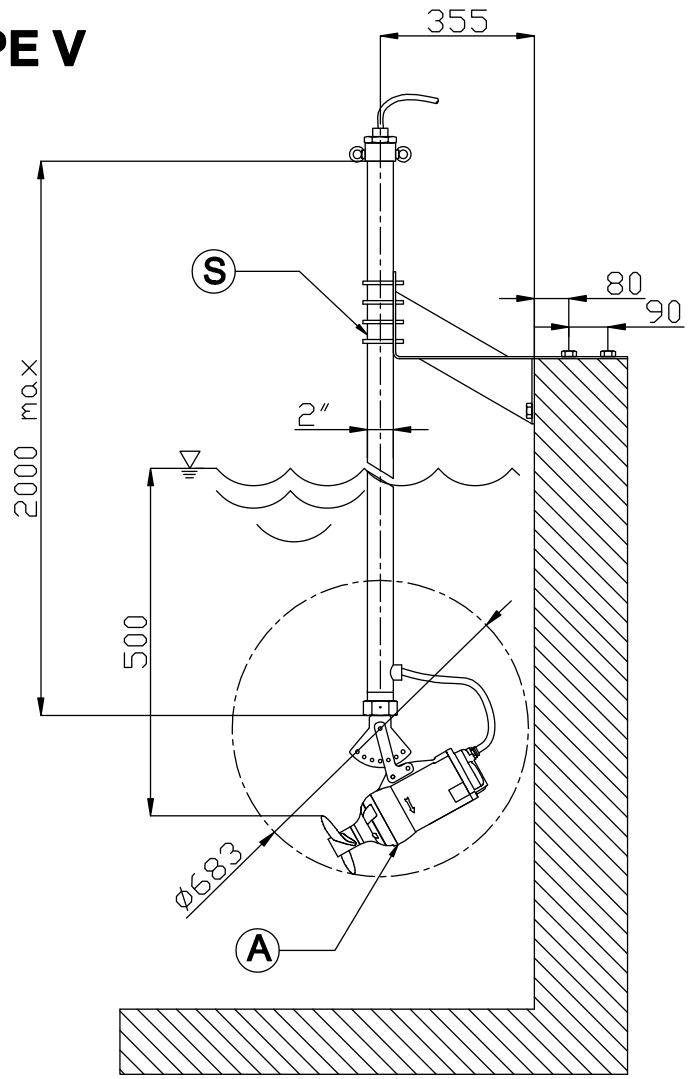
Motore asincrono trifase a gabbia di scoiattolo, classe d'isolamento H. A secco, raffreddato dal liquido circostante. Grado di protezione IP68. Il motore, è progettato per lavoro continuo o intermittente, con un numero non superiore di 15 avviamenti per ora regolarmente distanziati e con un massimo squilibrio di tensione tra le fasi del 5%.
The motor is asynchronous three phase squirrel cage, dry type, cooled by surrounding liquid. Protection degree IP 68, insulation class H. The Motor is designed for both continuous and intermittent operation, with a maximum of 15 starts per hour at regular intervals, and can withstand a maximum of 5% phase unbalance.

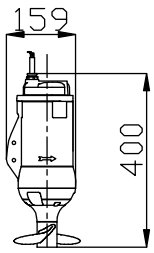
Il miscelatore è dotato di due tenute meccaniche per il perfetto isolamento tra il motore elettrico e il liquido pompato.
The submersible mixer has two mechanical seals for a perfect insulation of the electric motor from the pumped liquid.

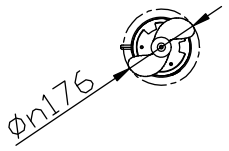
Elica ottenuta di fusione con profilo autopulente ad alte prestazioni.
Highly efficient self-cleaning propeller, made by investment casting.

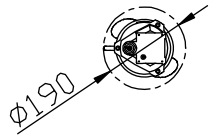
CARATTERISTICHe SECONDO NORMA *PERFORMANCE IN ACCORDANCE TO* **ISO 21630**	PRESTAZIONI RILEVATE CON ACQUA PURA A 20°C *OPERATING DATA OBTAINED WITH CLEAN WATER AT 20°C*

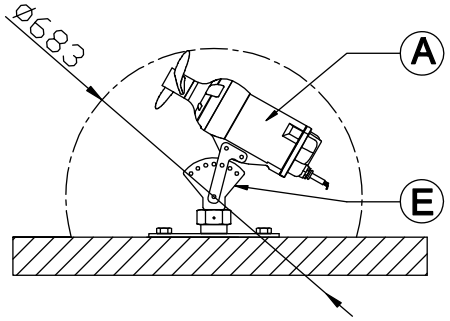
TYPE V











Pos. *Pos.*	*Codice* *Code*	*Descrizione* *Description*	*Materiale* *Material*	*Peso Kg* *Weight Kg*
A	--	Miscelatore Mixer		-
E	SASGM16P02	Piastra di fissaggio Fixing base plate	AISI304 Acciaio S.Steel AISI304	8
S	SSM050-304P06	Struttura sostegno mixer Mixer's installation equipment	Acciaio AISI 304 S.Steel AISI 304	11

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