

SUBMERSIBLE MOTORS

ENERGY EFFICIENT DRIVES IN EFFICIENCY CLASS IE2 AND IE3

APPLICATIONS: USED AS DRIVES FOR PUMPS, AGITATORS, SCRAPERS AND OTHER UNITS FOR CONVEYING CLEAR WATER, SEWAGE AND WASTEWATER OR SLUDGES IN THE MUNICIPAL, INDUSTRIAL AND PRIVATE SECTORS. FOR USE UNDER EXTREME CONDITIONS IN FLAMEPROOF ENCAPSULATION (EEX D). FOR MEDIA AT TEMPERATURES UP TO 60°C.

ENERGY EFFICIENCY: THE NEW SERIES IS AVAILABLE IN EFFICIENCY CLASSES IE2 (HIGH EFFICIENCY) AND IE3 (PREMIUM EFFICIENCY). THIS REDUCES POWER CONSUMPTION AND SAVES ENERGY COSTS.

ELECTRICAL DESIGN AND CONTROL: THE MOTOR AND CONTROLLER ARE CONNECTED VIA A COMMON WATERPROOF CABLE WHICH IS RESISTANT TO AGGRESSIVE MEDIA. THE MOTORS CAN BE RUN VIA DIRECT CONNECTION, STAR-DELTA ACTIVATION, SOFT-START OR FREQUENCY INVERTERS, DEPENDING ON THE PERFORMANCE AND APPLICATION.

MOTOR MOUNTINGS: ROBUST, STABLE MOUNTING OPTIONS ARE PROVIDED AT THE BACKSIDE OF THE MOTOR HOUSING AND ON THE SIDE OF THE CABLE FEEDTHROUGH SO THAT THE ATTACHMENTS (E.G. PUMPS AND TRANSMISSIONS ETC.) USUALLY DO NOT HAVE TO BE USED FOR SUSPENSION PURPOSES. THE HOUSING CAN BE PIVOTED DIRECTLY VIA THE MOUNTING AXLE ON THE SOLID CABLE FEEDTHROUGH.

RELIABILITY: THE SHAFT SEAL FOR THE MOTOR INTERIOR IS ALWAYS A SILICON CARBIDE MECHANICAL SEAL AND IS THEREFORE PRESSURE WATERTIGHT (IP68). THE STANDARD FEATURES OF OUR NEW SERIES WITH MOTOR OUTPUTS FROM 1.5 TO 18.5 KW INCLUDE A TEMPERATURE MONITOR ON THE MOTOR WINDING AND A LEAK SENSOR FOR MONITORING THE SEAL (MOUNTED IN THE BEARING COVER ON THE A-SIDE).

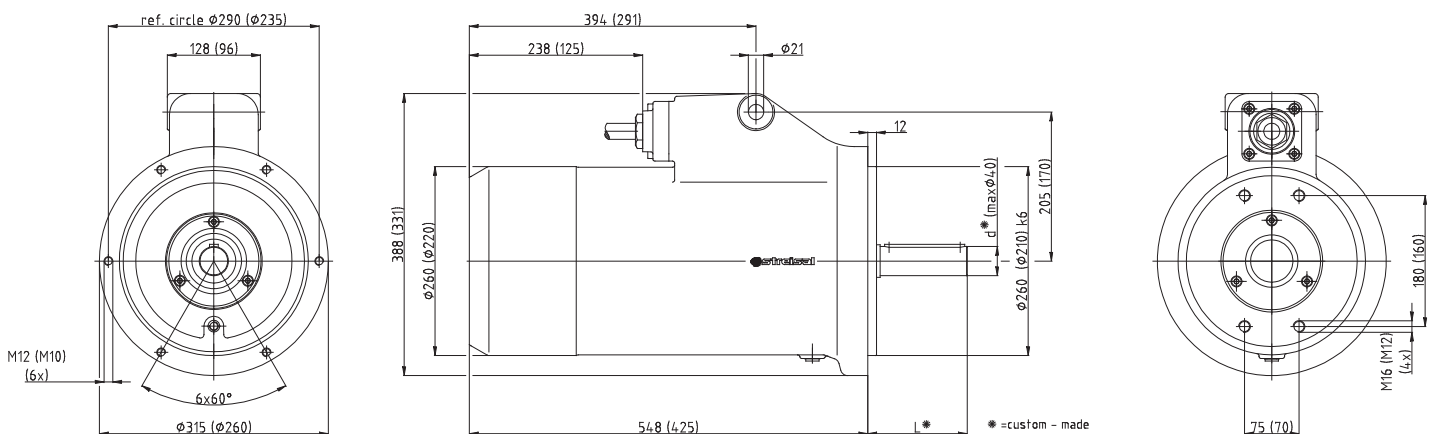
TECHNICAL DATA:

TYP	Nominal Power		Nominal Current [A]	Cos phi	Motor Speed [rpm]	Weight [kg]
	P ₂ [kW]	P ₁ [kW]				
TSRM 16 – 132	1,5	1,8	3,55	0,74	965	92
TSRM 26 – 132	2,2	2,5	5,1	0,74	965	94
TSRM 34 – 132	3,0	3,5	5,9	0,83	1.450	98
TSRM 44 – 132	4,0	4,6	7,8	0,83	1.450	98
TSRM 54 – 132	5,5	6,1	11	0,83	1.450	105
TSRM 74 – 132	7,5	8,3	15	0,83	1.450	108
TSRM 114 – 132 ^{*)}	11,0	12,2	21	0,83	1.450	127
TSRM 74 – 160	7,5	8,1	13,8	0,83	1.450	122
TSRM 114 – 160	11,0	12,2	21,0	0,83	1.450	141
TSRM 154 – 160	15,0	16,5	28,0	0,84	1.450	161
TSRM 184 – 160	18,5	20,2	34,7	0,84	1.450	173

^{*)} Energy efficiency class IE1

MOTOR 400 +/-10% VAC, IE2 (IE3 ALSO AVAILABLE), RATED FREQUENCY 50 HZ,
PROTECTION CLASS IP 68, ENERGY-SAVING MOTORS REQUIRE HIGHER STARTING CURRENTS DEPENDING ON TYPE!

DIMENSIONS: [mm]



MATERIALS:

HOUSING
FLANGES
FASTENERS
MOTOR SHAFT

MECHANICAL SEAL
CORROSION PROTECTION

GG25
GG25
STAINLESS STEEL 1.4301 (V2A)
HEAT-TREATED STEEL (STAINLESS STEEL OR
ACCORDING TO CUSTOMER REQUIREMENT AT EXTRA CHARGE)
SILICON CARBIDE
INERTOL POXITAR FOR STANDARD APPLICATIONS; CERAMIC COATING OR
SIMILAR FOR AGGRESSIVE MEDIA OR ACCORDING TO CUSTOMER REQUIREMENT

SAFETY: THE MOTOR SERIES WITH „FLAMEPROOF ENCAPSULATION“ PROTECTION TYPE (EEX D) ACCORDING TO ATEX (ZONE 1 AND 2) IS AVAILABLE FOR USE IN EXPLOSION HAZARD AREAS PTC THERMISTORS TO PROTECT AGAINST THERMAL OVERLOAD SEAL SYSTEM MONITORED BY LEAK SENSOR „STREISAL TOPLIMITER“ IN THE BEARING COVER ON THE A-SIDE.

(TECHNICAL CHANGES, ERRORS AND OMISSIONS EXCEPTED)

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