



MOTOR DATA SHEET

Motor type: **2Sg280S2-(2D,3D)**

Series: **GAS AND DUST - CATEGORY 2D, 3D, 3G**

07-06-2025

ELECTRICAL PARAMETERS

U	CONN.	f	P		Duty	I	n	T	TL/T	TB/T	IL/I	Efficiency at load [%]			Power factor at load [-]		
V	-	Hz	kW	HP	-	A	rpm	Nm	-	-	-	2/4	3/4	4/4	2/4	3/4	4/4
400	Δ	50	75	100	S1	128	2977	241	2.1	3.3	7.5	92.5	93.8	94.0	0.80	0.87	0.90

GENERAL DATA

Efficiency class	-	Sound pressure level [dB]	82
Frame size	280	Sound power level [dB]	92
Number of poles	2	Terminal box position	on right side
Starting method	DOL or Y/Δ	Possibility of terminal box rotation	yes
Insulation class	F	Bearing on D-side	6315C3
Frequency converter supply	on demand	Bearing on ND-side	6315C3
Mounting arrangement	IMB3/B5/B35	Bearings regreasing	yes
Cooling method	IC411	Housing - material	cast iron
Weight (IMB3) [kg]	580	Feet - material	cast iron
Moment of inertia [kgm ²]	0.76	Bearing shields - material	cast iron
Direction of rotation	CW/CCW	Painting	RAL5010
Degree of protection	IP66 (2D) / IP56 (3D)	Climatic execution	N

ENVIRONMENTAL CONDITIONS

Ambient temperature [°C]	from -20 up to +40	Altitude above sea level [m]	up to 1000
Relative humidity [%]	up to 95		

ACCESSORY

Number of terminals or cables	6	Temperature sensors in bearings	2 x PTC (1pc/bearing)
Cable glands/inlets	2 + 1	Winding heaters	on demand
Temperature sensors in winding	3 x PTC	Optional accessories	on demand

STANDARDS

EN 60034-1, EN 60079-0, EN 60079-15, EN 60079-31

CERTIFICATES

ATEX

ADDITIONAL INFO

Ex marking	II 2D,3D Ex t IIIC,IIIB T100°C Db / II 3G ExnA II T5 Gc		
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