

MOTOR DATA SHEET

Motor type: **3SGf280M2-E**

Series: **FOR MINING CONVEYOR BELT DRIVES 3SGF SERIES**



03-02-2026

ELECTRICAL PARAMETERS																	
<i>U</i>	CONN.	<i>f</i>	<i>P</i>		Duty	<i>I</i>	<i>n</i>	<i>T</i>	<i>TL/T</i>	<i>TB/T</i>	<i>IL/I</i>	Efficiency at load [%]			Power factor at load [-]		
<i>V</i>	-	Hz	<i>kW</i>	<i>HP</i>	-	A	<i>rpm</i>	<i>Nm</i>	-	-	-	2/4	3/4	4/4	2/4	3/4	4/4
500	Y	50	90	125	S1/S4	120	2970	289	2	2.5	6.5	93.7	94.3	94.0	0.90	0.91	0.92

GENERAL DATA

Efficiency class	-	Sound pressure level [dB]	89
Frame size	280	Sound power level [dB]	99
Number of poles	2	Terminal box position	top
Starting method	DOL	Possibility of terminal box rotation	no
Insulation class	F	Bearing on D-side	NU 317
Frequency converter supply	on demand	Bearing on ND-side	6317 C3
Mounting arrangement	IMB35	Bearings regreasing	yes
Cooling method	IC411	Housing - material	steel
Weight (IMB3) [kg]	800	Feet - material	steel
Moment of inertia [kgm ²]	0.72	Bearing shields - material	cast iron
Direction of rotation	CW/CWW	Painting	RAL5010
Degree of protection	IP56	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	3	Temperature sensors in bearings	2 x bimetallic (1pc/bearing)
Cable glands/inlets	2	Winding heaters	on demand
Temperature sensors in winding	3 x bimetallic	Optional accessories	on demand

STANDARDS

IEC 60034-1, IEC 60079-0, IEC 60079-1, IEC 60079-7

CERTIFICATES

ATEX, EAC, BiH

ADDITIONAL INFO

Ex marking	IM2 Ex db I Mb	
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