

MOTOR DATA SHEET

Motor type: **Sh450H2D**

Series: **HIGH EFFICIENCY**



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
6000	Y	50	800	1080	S1	88	2989	2556	0.9	2.8	7.2	-	-	97.3	-	-	0.90

GENERAL DATA

Efficiency class	-	Sound pressure level [dB]	84
Frame size	450	Sound power level [dB]	-
Number of poles	2	Terminal box position	top
Starting method	DOL	Possibility of terminal box rotation	yes
Insulation class	F	Bearing on D-side	EFNLB9-90 or 6318MC3
Frequency converter supply	on demand	Bearing on ND-side	EFNLQ9-90 or 6318MC3
Mounting arrangement	B3/B35	Bearings regreasing	yes
Cooling method	IC411	Housing - material	cast iron
Weight (IMB3) [kg]	4250	Feet - material	cast iron
Moment of inertia [kgm ²]	14	Bearing shields - material	cast iron
Direction of rotation	CW or CCW (according to the order)	Painting	RAL5010
Degree of protection	IP55	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 Pt100 (1 pc/bearing)
Cable glands/inlets	1	Winding heaters	on demand
Temperature sensors in winding	6 x Pt100 (2 pcs./phase)	Optional accessories	on demand

STANDARDS

IEC 60034-1

CERTIFICATES

on demand