



MOTOR DATA SHEET

Motor type: **Sh450H12Es**

Series: **IE1**

30-04-2024

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	N	-	-	-	2/4	3/4	4/4	2/4	3/4	4/4
400	Δ or Y	50	355	480	S1	707	494	6863	0.9	2.4	5.6	93.4	94.1	94.1	0.58	0.71	0.77

GENERAL DATA

Efficiency class	-	Sound pressure level [dB]	74
Frame size	450	Sound power level [dB]	-
Number of poles	12	Terminal box position	top/ * side
Starting method	direct or VSD	Possibility of terminal box rotation	yes
Insulation class	F	Bearing on D-side	6324 C3
Frequency converter supply	yes	Bearing on ND-side	NU222 /* 7322 BTVP
Mounting arrangement	IMB3/B35/V1*	Bearings regreasing	yes
Cooling method	IC411	Housing - material	cast iron
Weight (IMB3) [kg]	4330	Feet - material	cast iron
Moment of inertia [kgm ²]	41.7	Bearing shields - material	cast iron
Direction of rotation	CW/CCW	Painting	RAL5010
Degree of protection	IP55	Climatic execution	N

ENVIRONMENTAL CONDITIONS

Ambient temperature [°C]	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	3	Winding heaters	on demand
Temperature sensors in winding	6 x Pt100 (2pcs./phase)	Optional accessories	on demand

STANDARDS

IEC 60034-1

CERTIFICATES

on demand