

**ECOL MOTOR**
**MODEL D1S 280S-2**
**TECHNICAL DATA SHEET**

General Data	
Frame size	280
Housing material	Casting iron
Install model	According to the standard
Type of feet	Removable feet (Standard) Fixed feet (Optional)
Net weight	530 kg
Insulation class	F (Standard)
	H (Optional)
Protection degree	IP 55 (Standard)
	IP 56 (Optional)
Thermal protection	Without (Standard)
	Customizable (Optional)
Rotation direction	Clockwise (Standard)
	Counter clockwise (Optional)
Service duty	S1
Vibration level	A
Balance	Half-key balanced
Cable glands	2 - M50× 1.5
Cooling	IC 411
Painting color	RAL 7024 (Standard)
	Customizable (Optional)
Regulations	IEC / DIN / ISO / VDE / EN
Standard	IEC 60034

Environmental conditions	
Ambient temperature	From -20°C to +40°C
Maximum altitude	1000 m above sea level

Electrical Data		
Output	75	kW
Frequency	50	Hz
Voltage (±5%)	400	V Δ @ 50Hz
	690	V Y @ 50Hz
	480	V Δ @ 60Hz
	828	V Y @ 60Hz
Rotation speed	2930	RPM @ 50Hz
	3516	RPM @ 60Hz
Rated current	131.21	A (In) @ Δ 50Hz
	75.75	A (In) @ Y 50Hz
Starting current	7.5	×In
Rated torque	244.45	Nm (Mn)
Starting torque	2	×Mn
	2.3	×Mn
Efficiency		IE1
	92.7	@ 100% load
	92.9	@ 75% load
Power factor cosφ	91.1	@ 50% load
	0.89	@ 100% load

Mechanical Data		
Bearings brand	C&U	(Standard)
	Customizable	(Optional)
Bearings type	6316 C3	(DE)
	6316 C3	(NDE)
Lifetime of bearings		- hours
Allowed radial load		6750 N
Allowed axial load		57700 N
Grease type	polyurea-based grease	
Lubrication interval of NDE bearing		3500 h
Lubrication interval of DE bearing		3500 h
Moment of inertia	0.698710	Kg*m <sup>2</sup>
Noise level	94	dB(A)

