

ECOL MOTOR
MODEL D1S 180M-2
TECHNICAL DATA SHEET

General Data	
Frame size	180
Housing material	Casting iron
Install model	According to the standard
Type of feet	Removable feet (Standard) Fixed feet (Optional)
Net weight	153 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 - M32x 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	22	kW
Frequency	50	Hz
Voltage (±5%)	400	V Δ @ 50Hz
	690	V Y @ 50Hz
	480	V Δ @ 60Hz
	828	V Y @ 60Hz
Rotation speed	2920	RPM @ 50Hz
	3504	RPM @ 60Hz
Rated current	39.69	A (In) @ Δ 50Hz
	22.91	A (In) @ Y 50Hz
Starting current	7.5	xIn
Rated torque	71.95	Nm (Mn)
Starting torque	2.2	xMn
	2.3	xMn
Efficiency	IE1	
	89.9	@ 100% load
	89.9	@ 75% load
Power factor cosφ	87.6	@ 50% load
	0.89	@ 100% load

Mechanical Data		
Bearings brand	C&U	(Standard)
	Customizable	(Optional)
Bearings type	6311 C3	(DE)
	6311 C3	(NDE)
Lifetime of bearings		- hours
Allowed radial load		2677 N
Allowed axial load		30000 N
Grease type	polyurea-based grease	
Lubrication interval of NDE bearing		9000 h
Lubrication interval of DE bearing		9000 h
Moment of inertia	0.081100	Kg*m ²
Noise level	89	dB(A)

