

Data Sheet

## Low Voltage eDrive

### ED-DT130-PT930

The Danfoss eDrive, ED-DT130-PT930-24V-1M90, is a highly integrated and compact power system. The eDrive is composed of a permanent magnet synchronous motor, equipped with an electronic braking system and paired with a reduction gearbox. This integrated design scheme provides high durability and reliability, as well as easy installation and quick debugging, while maintaining excellent efficiency. Most notably, the eDrive delivers a superior driving experience to customers.

#### Features and Benefits

- The eDrive is designed to be the most compact drive solution to make installation fast and simple.
- High power, enabling gradeability up to 30% and speeds up to 6km/h.
- IP67 ingress protection ensures reliability in extreme environments.
- The gearbox is in the leading position, minimizing any risk of oil leakage.
- The brake system is durable and replaceable.



## Specification

<b>Motor Rated Power(S2-60min)</b>			<b>850W</b>
<b>Motor Rated Power(S2-2min)</b>			<b>1900W</b>
<b>Inverter Power Supply</b>			<b>24VDC</b>
<b>Working Mode:</b>			<b>Speed</b>
<b>Cooling system:</b>			<b>Air</b>
<b>Gearbox Ratio</b>			<b>51.875</b>
<b>Description</b>	<b>Symbol</b>	<b>Unit</b>	
<b>Duty</b>	-	-	<b>S2-60min</b>
<b>Max Speed</b>	<b>n</b>	<b>rpm</b>	<b>4700</b>
<b>Motor Peak TorqueS2-2min</b>	<b>Tp</b>	<b>Nm</b>	<b>18</b>
<b>Gearbox Max Output Torque</b>	<b>Tp</b>	<b>Nm</b>	<b>930</b>
<b>Peak Current</b>	<b>Ip</b>	<b>Arms</b>	<b>180</b>
<b>Rated Torque S2-60min</b>	<b>Tr</b>	<b>Nm</b>	<b>2.8</b>
<b>Gearbox Rated Torque S2-60min.</b>	<b>Tr</b>	<b>Nm</b>	<b>550</b>
<b>Rated Current S2-60min.</b>	<b>Ir</b>	<b>Arms</b>	<b>43</b>
<b>Ambient Storage Temperature</b>	<b>θa</b>	<b>°C</b>	<b>-40 ÷ +85</b>
<b>Ambient Operating Temperature</b>	<b>θa</b>	<b>°C</b>	<b>-40 ÷ +65</b>
<b>Protection Grade</b>	<b>IP</b>	-	<b>IP67</b>
<b>Insulation Class</b>	-	-	<b>H</b>
<b>Thermal protection</b>	-	-	<b>KTY 84-150</b>
<b>Brake Torque</b>	-	<b>Nm</b>	<b>22</b>
<b>Brake Power</b>	-	<b>W</b>	<b>28</b>
<b>Brake Pull In</b>	-	<b>V</b>	<b>12</b>
<b>Brake Drop</b>	-	<b>V</b>	<b>5</b>

### Product codes and options

Product code	Definition
ED-DT130-PT930-24V-1M90	ED - Electric sub-system/system products
	DT130 - Drivetrain 130 stator outer diam.
	PT930- Peak torque of 930 Nm
	24V - 24V DC voltage
	1M90 - 1 gear with 90 rpm Gear Box speed

Product code definition table

Optional Parts	Codes	Description
Motor Speed Sensor	1	sin/cos
Bolts connecting the product to the vehicle	A	Number:8, Type:M8*1.25
Connector	A	8Pin AMPHENOL
Cable connection mode	1	Cable built-out

Optional parts table

### Dimensions



