

# Expanded Overload Capability: 1.25 Service Factor Available on Key Models

Applies to most 2-, 4-, and 6-pole HOSTILE DUTY® and CORRO-DUTY® motors up to 100 HP



## What is Service Factor?

The Service Factor (S.F.) of an electric motor indicates how much overload it can handle beyond its rated horsepower (HP) under normal conditions.

## 1.25 S.F. Rated

Nidec / U.S. MOTORS® understands the increasingly demanding applications our electric motors power. Through close partnerships, listening to customer feedback, and our application expertise, we've evaluated our World Motor product offering and are proud to announce:

- 2-, 4-, and 6-pole World Motor HOSTILE DUTY (CTE) and CORRO-DUTY (TCE) catalog models up to 100 HP are rated at 1.25 Service Factor.

Additionally, Nidec / U.S. MOTORS® UNIMOUNT® (UTE) motors also feature 1.25 Service Factor.

As a testament to Nidec / U.S. MOTORS' quality and engineering, many of these ratings required no change to meet this higher service factor rating.

## Where Performance Matters

- |                           |   |
|---------------------------|---|
| • <b>Industrial Use</b>   | Manufacturing, Mining, Water/Wastewater |
| • <b>Commercial Use</b>   | HVAC, Elevators, Building Systems       |
| • <b>Reduced Downtime</b> | Reliable in critical operations         |
| • <b>Cost Efficiency</b>  | Lower maintenance, higher productivity  |
| • <b>Sustainability</b>   | Longer lifespan, fewer replacements     |
| • <b>Peace of Mind</b>    | Confidence in overload situations       |

## Why Does a Higher Service Factor Matter?



1.25 S.F. handles up to 25% more load during peak demand



Extended Motor Life

Performs reliably under low or unbalanced voltage



Voltage Flexibility

Minimizes overheating, wear, and long-term maintenance



Thermal Protection

Reduces winding temperatures and extends insulation life at rated power (1.0 service factor)

## Scope of Update

### Applies To:

U.S. MOTORS® World Motor HOSTILE DUTY (CTE) and CORRO-DUTY (TCE) motors, 2-, 4-, and 6-pole, FL600 catalog, rated 230/460V or 460V, up to 100 HP. \*

*\* except 75 HP 4-pole 230/460V models*

### Exclusions:

- 200V & 575V models
- C-Face models - **coming soon!**
- E.T.O. (all voltages & poles)
- 841 PLUS®, INVERTER DUTY, IEC, IEC 841 PLUS
- Certain TS shaft/roller bearing catalog motors - **coming soon!**

(Ask your U.S. MOTORS® representative for full list)

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BR 1.25 SF



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