

# EMDF40-PH-2 Passenger Locomotive

**Model Designation** . . . . . F40-PH-2  
**Locomotive Type** . . . . . (B-B) 0440  
**Locomotive Horsepower** . . . . . 3000

**Control System** . . . . . DASH-II

## Diesel Engine

Model . . . . . 645E3B  
Type . . . . . Turbocharged  
Number of Cylinders . . . . . 16  
Cylinder Arrangement . . . . . 45 "V"  
Cylinder Bore and Stroke . . . . . 9 – 1/16" x 10"  
Operating Principle . . . . . 2 Stroke Cycle,  
Turbocharged, Unit Injection, Water Cooled  
Maximum Speed . . . . . 893 RPM  
Idle Speed (Normal) . . . . . 410 RPM  
Idle Speed (Low) . . . . . 255 RPM  
Main Generator Model . . . . . AR10/ D14

## Traction Alternator

(Rectified Output) . . . . . AR10  
Number of Poles . . . . . 10  
Normal Voltage (DC) . . . . . 600  
Frequency (at 720 RPM) . . . . . 60Hz

Maximum Continuous Current Rating . . . 4200 Amperes  
Companion Alternator . . . . . D14  
Nominal Voltage (AC) . . . . . 215

## Traction Motors

Model . . . . . D77  
Number . . . . . 4  
Maximum Continuous Current Rating . . . 1050 Amperes

## Driving Wheels

Number . . . . . 4 Pair  
Diameter . . . . . 40"

## Air Compressor . . . . . Model WBO-RGD

Type . . . . . 2 Stage  
Number of Cylinders . . . . . 3  
Air Compressor Cooling . . . . . Water  
Lube Oil Capacity . . . . . 10.5 Gal.  
Capacity (at 900 RPM) . . . . . 254 cu. ft./min.

## Storage Battery

Number of cells . . . . . 32  
Voltage . . . . . 64  
Rating (8 hour) . . . . . 500 Amp. Hr.

---

---