



# OMEC NORTH AMERICA INC

UL LISTED FIREPUMP MOTORS - MULTI VOLTAGE : MULTI FREQUENCY

## PRODUCT FEATURES

|                          |                       |                          |                     |
|--------------------------|-----------------------|--------------------------|---------------------|
| Model Number             | TEFC 445TS-2 150HP    |                          |                     |
| Standard                 | NEMA MG-1             | Output                   | 150HP / 110KW       |
| Hazardous Classification | None (Safe Area)      | No of Poles              | 2P                  |
| Efficiency Class         | NEMA HIGH (IE2) EPACT | Frame Size               | 445TS               |
| Number of Phases         | 3 Phase- Induction    | Type                     | HORIZONTAL          |
| Material of Construction | Cast Iron             | Enclosure Type / Cooling | TEFC / IC411        |
| Insulation Class         | Class F               | Degree of Protection     | IP55                |
| Temperature Rise Class   | 80K (B class)         | Duty Cycle               | S1- Continuous Duty |
| Ambient Temperature      | -15°C ~ 55°C          | Service Factor           | SF 1.15             |
| Starting Method          | DOL / Y-D Start       | Operating Altitude       | 1000 masl & <95% RH |

## TECHNICAL DETAILS

|                                  |                  |           |           |           |           |           |           |
|----------------------------------|------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Winding Connection               | $\Delta$ (Delta) |           |           |           |           |           |           |
| KVA Code                         | CODE G           |           |           |           |           |           |           |
| Nema Design                      | DES B            |           |           |           |           |           |           |
| Frequency                        | 50Hz             |           |           | 60Hz      |           |           |           |
| Rated Speed                      | 2975 Rpm         |           |           | 3570 Rpm  |           |           |           |
| Voltage                          | 380              | 400       | 415       | 380       | 400       | 440       | 460       |
| Full Load Current [ IN ]         | 200.00 A         | 192.00 A  | 187.00 A  | 198.00 A  | 188.00 A  | 173.00 A  | 165.00 A  |
| Locked Rotor Current [ IL / IN ] | 6.0              | 6.5       | 7.0       | 5.5       | 6.0       | 7.1       | 7.5       |
| I max [ Less than or Equal ]     | 1200.00 A        | 1248.00 A | 1309.00 A | 1089.00 A | 1128.00 A | 1228.30 A | 1237.50 A |
| Starting Torque [ Tst ]          | 120%             | 120%      | 120%      | 120%      | 120%      | 120%      | 120%      |
| Breakdown Torque [ Tmax ]        | 200%             | 200%      | 200%      | 200%      | 200%      | 200%      | 200%      |
| Efficiency                       | 100% load        | 94.5%     | 94.5%     | 94.5%     | 94.5%     | 94.5%     | 94.5%     |
| Power Factor (cos $\phi$ )       | 100% load        | 0.89      | 0.89      | 0.89      | 0.91      | 0.91      | 0.91      |

## OTHER DETAILS

|                                  |                            |                       |              |
|----------------------------------|----------------------------|-----------------------|--------------|
| Bearing Configuration (DE / NDE) | Ball Bearing /Ball Bearing |                       |              |
| Bearing Lubrication Type         | DE:                        | Grease                | NDE: Grease  |
| Bearing Series Type              | DE:                        | 6314C3                | NDE: 6314C3  |
| Terminal Box Position            | Side                       | Direction of Rotation | CW from DE   |
| Final Colour                     | RAL 3002- RED              | Paint Specification   | 2 Pack Epoxy |
| Bracket Material                 | Cast Iron                  | Mounting Option       | F1           |