

|                                  |           |           |   |                           |                            |
|----------------------------------|-----------|-----------|---|---------------------------|----------------------------|
| No. of Phases                    |           | 3         | Reference                                       | Performance               | IS:12615                   |
| Frame Designation                |           | 280SX FLP | Standard  | Enclosure                 | IS:60079-1                 |
| Rated Output                     | kW        | 45.00     | Protection IS:4691                              |                           | IP 55                      |
|                                  | HP        | 60.00     | Vibration Standard                              |                           | IS:12075                   |
| No. of Poles                     |           | 6         | Noise Standard                                  |                           | IS:12065                   |
| Rated Voltage                    |           | V 415     | Duty  |                           | S1                         |
| Rated Frequency                  |           | Hz 50     | Insulation Class                                |                           | F                          |
| Rated Current                    |           | A 80.0    | Cooling IS:6362                                 |                           | IC411                      |
| Rated Speed                      |           | rpm 983   | Terminal<br>Box<br>Details                      | Terminal Size             | M12                        |
| Rated Torque                     |           | kgm 44.59 |   | No. of Terminal           | 6                          |
| Efficiency                       | Full load | % 92.7    |   | Max. cable size           | mm <sup>2</sup> 2x3Cx150.0 |
|                                  | 3/4 load  | % 92.7    | DE  | 6317                      |                            |
|                                  | 1/2 load  | % 89.4    | NDE   | 6317                      |                            |
| Power factor                     | Full load | 0.84      | Bearing<br>Data                                 | Lubrication               | Mobil / Unirex N3          |
|                                  | 3/4 load  | 0.81      |   | Life L10 (Direct coupled) | hrs. 50,000                |
|                                  | 1/2 load  | 0.73      |   | Regreasing Time           | hrs. 5,000                 |
| Temp. Rise (Res.)                |           | °C 70     | Lifting Eyebolt IS:4190                         |                           | M20                        |
| Acceleration Time                |           | sec. -    | Motor Weight (approx)                           |                           | kg 720                     |
| Stator Connection                |           | D         | Rotor GD <sup>2</sup>                           |                           | kgm <sup>2</sup> 3.8890    |
| Tropicalised? (Yes/No)           |           | Yes       | Ambient Temp.                                   |                           | °C 50                      |
| I <sub>st</sub> / I <sub>r</sub> |           | % 7.0     | Overall Dimensions of Packed motor (LxBxH) (mm) |                           |                            |
| T <sub>st</sub> / T <sub>r</sub> |           | % 2.2     |   |                           |                            |
| T <sub>po</sub> / T <sub>r</sub> |           | % 2.4     | Voltage Variation ±                             |                           | % 10                       |
| Locked rotor<br>withstand time   | Hot       | sec 7     | Frequency Variation ±                           |                           | % 5                        |
|                                  | Cold      | sec 17    | Combiend Variation ±                            |                           | % 10                       |

Remarks: (1) Efficiency Class : IE2  
(2) Motor construction: TEFC

Data subject to tolerance as per IS:12615.

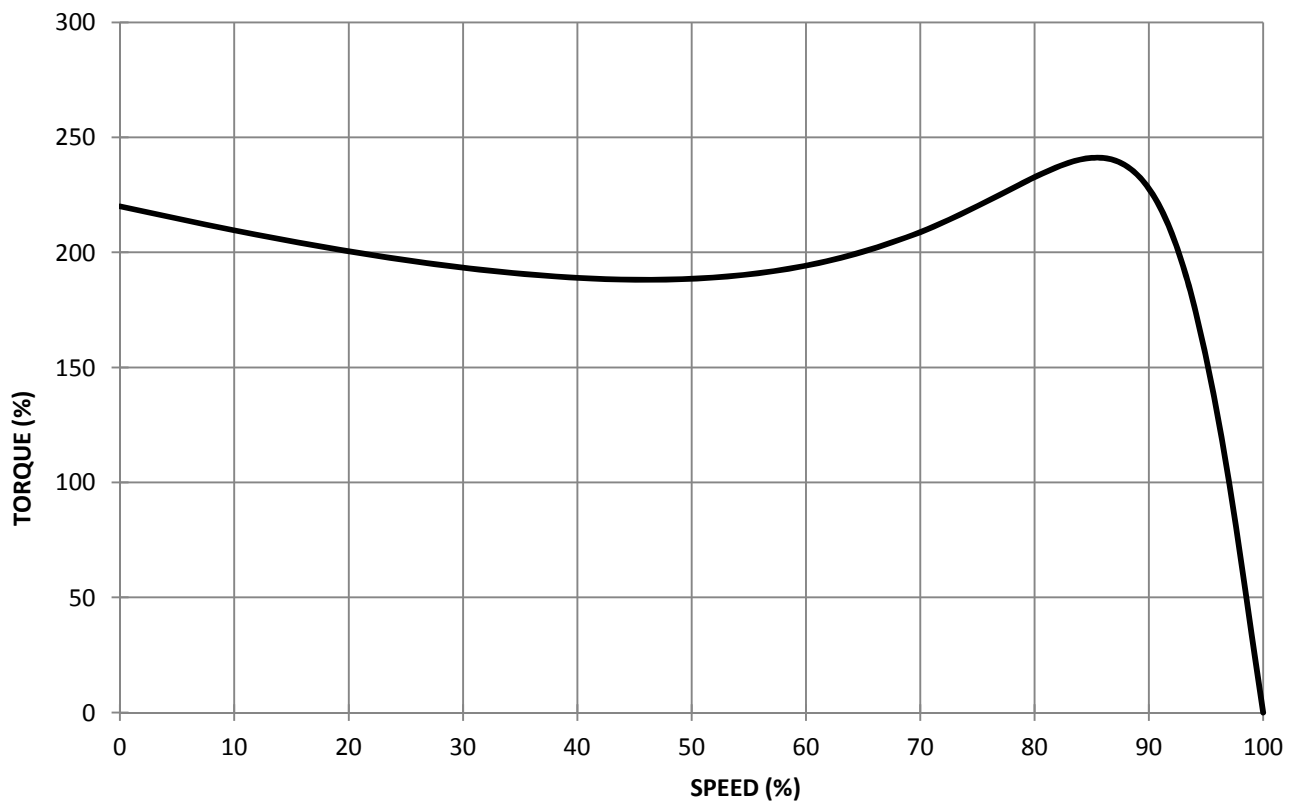
Prep.: Engg

Chkd.:

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### TORQUE SPEED CURVE



### LOAD-EFFICIENCY-POWER FACTOR CURVE

