

# PRODUCT INFORMATION PACKET

marathon®  
Motors

Model No: KS8P0018B25X44XSX

Catalog No: AL08D3540MFAFTOAOO

8.0 Kw, Crane Duty Slipring Motors , 3 phase, 8 Pole, 415 V, S4 Duty, KS180L2 Frame, 25 CDF,  
600 Start/Hr., TEFC



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### Nameplate Specifications

|                               |               |                            |                             |
|-------------------------------|---------------|----------------------------|-----------------------------|
| Output HP                     | 10.70 Hp      | Output KW                  | 8.0 kW                      |
| Frequency                     | 50 Hz         | Voltage                    | 415 V                       |
| Current                       | 19.5 A        | Speed                      | 727 rpm                     |
| Phase                         | 3             | Duty                       | S4                          |
| Frame                         | KS180L2       | Enclosure                  | Totally Enclosed Fan Cooled |
| Thermal Protection            | No Protection | Ambient Temperature        | 45 °C                       |
| Drive End Bearing Size        | 6310 ZZ       | Opp Drive End Bearing Size | 6310 ZZ                     |
| UL                            | No            | CSA                        | No                          |
| CE                            | No            | IP Code                    | 55                          |
| CDF                           | 25 %          | Start/Hr                   | 600                         |
| RA                            | 20 A          | RV                         | 235 V                       |
| Insulation class Stator/Rotor | F/F           | Temp. Rise Stator/Rotor    | 75/75 K                     |
| Stator Connection             | Delta         | Rotor Connection           | Star                        |
| Efficiency Class              | Standard      |                            |                             |

### Technical Specifications

|                       |                        |                       |                          |
|-----------------------|------------------------|-----------------------|--------------------------|
| Electrical Type       | Slipping               | Starting Method       | Rotor resistance starter |
| Rotation              | Bi-Directional         | Mounting              | IMB3                     |
| Motor Orientation     | Horizontal             | Drive End Bearing     | Antifriction             |
| Opp Drive End Bearing | Antifriction           | Frame Material        | Cast Iron/Fabricated     |
| Shaft Type            | Single Cylinder        | Overall Length        | 875.00 mm                |
| Frame Length          | 875.00 mm              | Shaft Diameter        | 48.000 mm                |
| Shaft Extension       | 110 mm                 | Assembly/Box Mounting | Top                      |
| Rotor GD2             | 1.17 kg·m <sup>2</sup> | Pull Out Torque       | 3.6                      |
| Outline Drawing       | CM1383                 | Connection Drawing    | DP2227                   |





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| P    | P    | n     | POT  | T    | U   | f    | I    | RA | RV  | CDF | Duty | No. of Starts/Hr. | Frame   |
|------|------|-------|------|------|-----|------|------|----|-----|-----|------|-------------------|---------|
| [kW] | [hp] | [RPM] | XFLT | [Nm] | (V) | [Hz] | [A]  |    |     | %   |      |                   |         |
| 8    | 10.7 | 727   | 3.6  | 424  | 415 | 50   | 19.5 | 20 | 235 | 25  | S4   | 600               | KS180L2 |

|                                  |           |   |                          |
|----------------------------------|-----------|---|--------------------------|
| Motor type                       | Slipring  | Degree of protection                      | IP-55                    |
| Enclosure                        | TEFC      | Motor weight - approx.                    | 250 kg                   |
| Frame Material                   | -         | Gross weight- approx.                     | kg                       |
| Mounting type                    | IMB3      | Motor GD2                                 | 1.17 kgm <sup>2</sup>    |
| Cooling method                   | IC411     | Vibration level                           | As per IS:12075 mm/s     |
| Voltage variation                | +/-10%    | Noise level ( 1meter distance from motor) | As per IS:12065 dB(A)    |
| Frequency variation              | +/-5%     | Starting method                           | Rotor resistance starter |
| Combined variation               | 10%       | Coupling                                  | Direct / Gearbox         |
| Insulation class                 | F/F       | Direction of rotation                     | Bi-directional           |
| Ambient temperature              | 45        | Paint shade                               | RAL5011                  |
| Temperature rise (by resistance) | 75/75     | Type of Terminal Box                      | Standard                 |
| Altitude above sea level         | Upto 1000 | Terminal box position                     | Top                      |
| Efficiency                       |           | Max. Cable size                           | Refer to TBA drg.        |
| Power Factor                     |           | Bearing type                              | Antifriction             |
| Stator Connection                | Delta     | DE Bearing                                | 6310 ZZ                  |
| Rotor Connection                 | Star      | NDE Bearing                               | 6310 ZZ                  |
|                                  |           | Type of Lubrication                       | Grease                   |

**NOTE**

All performance values at rated voltage and frequency.

All performance parameters are subjected to standard tolerance as per IEC 60034-1

Technical data are subject to change. There may be discrepancies between calculated and name plate values.