

# PRODUCT INFORMATION PACKET

**marathon®**  
Motors

Model No: KS2P6013B25W45XSX

Catalog No: KS2P6013B25W45XSX

2.6 Kw, Crane Duty Slipring Motors , 3 phase, 8 Pole, 415 V, S5 Duty, KS132MB Frame, 25 CDF,  
300 Start/Hr., TEFC



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**RegalRexnord**

### Nameplate Specifications

|                               |                      |                            |                                    |
|-------------------------------|----------------------|----------------------------|------------------------------------|
| Output HP                     | <b>3.50 Hp</b>       | Output KW                  | <b>2.6 kW</b>                      |
| Frequency                     | <b>50 Hz</b>         | Voltage                    | <b>415 V</b>                       |
| Current                       | <b>6.9 A</b>         | Speed                      | <b>705 rpm</b>                     |
| Phase                         | <b>3</b>             | Duty                       | <b>S5</b>                          |
| Frame                         | <b>KS132MB</b>       | Enclosure                  | <b>Totally Enclosed Fan Cooled</b> |
| Thermal Protection            | <b>No Protection</b> | Ambient Temperature        | <b>45 °C</b>                       |
| Drive End Bearing Size        | <b>6308 ZZ</b>       | Opp Drive End Bearing Size | <b>6308 ZZ</b>                     |
| UL                            | <b>No</b>            | CSA                        | <b>No</b>                          |
| CE                            | <b>No</b>            | IP Code                    | <b>55</b>                          |
| CDF                           | <b>25 %</b>          | Start/Hr                   | <b>300</b>                         |
| RA                            | <b>14.2 A</b>        | RV                         | <b>110 V</b>                       |
| Insulation class Stator/Rotor | <b>F/F</b>           | Temp. Rise Stator/Rotor    | <b>75/75 K</b>                     |
| Stator Connection             | <b>Delta</b>         | Rotor Connection           | <b>Star</b>                        |
| Efficiency Class              | <b>Standard</b>      |                            |                                    |

### Technical Specifications

|                       |                        |                       |                                 |
|-----------------------|------------------------|-----------------------|---------------------------------|
| Electrical Type       | <b>Slipring</b>        | Starting Method       | <b>Rotor resistance starter</b> |
| Rotation              | <b>Bi-Directional</b>  | Mounting              | <b>IMB3</b>                     |
| Motor Orientation     | <b>Horizontal</b>      | Drive End Bearing     | <b>Antifriction</b>             |
| Opp Drive End Bearing | <b>Antifriction</b>    | Frame Material        | <b>Cast Iron/Fabricated</b>     |
| Shaft Type            | <b>Single Cylinder</b> | Overall Length        | <b>700.00 mm</b>                |
| Frame Length          | <b>700.00 mm</b>       | Shaft Diameter        | <b>38.000 mm</b>                |
| Shaft Extension       | <b>80 mm</b>           | Assembly/Box Mounting | <b>Top</b>                      |
| Rotor GD2             | <b>0.19 kg·m²</b>      | Pull Out Torque       | <b>2.5</b>                      |
| Outline Drawing       | <b>CM1383</b>          | Connection Drawing    | <b>DP2012</b>                   |



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| PT. NO. | FRAME  | POLE | D(SHAFT DIA) |                  | E   | GA   | F    |              | GD   |              | G    |            | H    |            | FIXING DIMENSIONS |     |     |     | K  | HA | AC               | HD  | AB  | AA | BB               | BA   | L                | LC    | L1               | LC1   | TAPER SHAFT DIMENSIONS DETAILS (BOTH) |         |     |                 |    |    |     |   |
|---------|--------|------|--------------|------------------|-----|------|------|--------------|------|--------------|------|------------|------|------------|-------------------|-----|-----|-----|----|----|------------------|-----|-----|----|------------------|------|------------------|-------|------------------|-------|---------------------------------------|---------|-----|-----------------|----|----|-----|---|
|         |        |      | NOM.         | TOL.             |     |      | NOM. | TOL.         | NOM. | TOL.         | NOM. | TOL.       | NOM. | TOL.       | A                 | B   | C   | CA  |    |    |                  |     |     |    |                  |      |                  |       |                  |       | D1                                    | D2      | E1  | E2              | F1 | H1 | G1  | Q |
| 1       | KS112M | 4-8  | 28           | +0.009<br>-0.004 | 60  | 31   | 8    | +0<br>-0.036 | 7    | +0<br>-0.090 | 24   | +0<br>-0.2 | 112  | +0<br>-0.5 | 190               | 140 | 70  | 345 | 12 | 15 | 252              | 330 | 226 | 45 | 170              | 50   | 610              | 672.5 | 610              | 672.5 | T28                                   | M16x1.5 | 60  | 42              | 5  | 5  | 3   | 3 |
| 2       | KS132M | 4-8  | 38           | +0.018<br>+0.002 | 80  | 41   | 10   | +0<br>-0.036 | 8    | +0<br>-0.090 | 33   | +0<br>-0.2 | 132  | +0<br>-0.5 | 216               | 178 | 89  | 358 | 12 | 15 | 300              | 380 | 260 | 55 | 220              | 55   | 700              | 785   | 700              | 785   | T38                                   | M20x1.5 | 80  | 54              | 8  | 7  | 4   | 5 |
| 3       | KS160M | 4-8  | 42           | +0.018<br>+0.002 | 110 | 45   | 12   | +0<br>-0.043 | 8    | +0<br>-0.090 | 37   | +0<br>-0.2 | 160  | +0<br>-0.5 | 254               | 210 | 108 | 347 | 15 | 20 | 350              | 440 | 305 | 55 | 305              | 92.5 | 815              | 932   | 815              | 932   | T42                                   | M24x2   | 110 | 82 <sup>Ⓞ</sup> | 10 | 8  | 5   | 5 |
| 4       | KS160L | 4-8  | 42           | +0.018<br>+0.002 | 110 | 45   | 12   | +0<br>-0.043 | 8    | +0<br>-0.090 | 37   | +0<br>-0.2 | 160  | +0<br>-0.5 | 254               | 254 | 108 | 347 | 15 | 20 | 350              | 440 | 305 | 55 | 305              | 92.5 | 815              | 932   | 815              | 932   | T42                                   | M24x2   | 110 | 82 <sup>Ⓞ</sup> | 10 | 8  | 5   | 5 |
| 5       | KS180L | 4-8  | 48           | +0.018<br>+0.002 | 110 | 51.5 | 14   | +0<br>-0.043 | 9    | +0<br>-0.090 | 42.5 | +0<br>-0.2 | 180  | +0<br>-0.5 | 279               | 279 | 121 | 370 | 15 | 21 | 445              | 490 | 340 | 75 | 340 <sup>Ⓞ</sup> | 85   | 875              | 990   | 875              | 990   | T48                                   | M30x2   | 110 | 82              | 12 | 8  | 5   | 5 |
| 6       | KS200L | 4-8  | 55           | +0.030<br>+0.011 | 110 | 59   | 16   | +0<br>-0.052 | 10   | +0<br>-0.090 | 49   | +0<br>-0.2 | 200  | +0<br>-0.5 | 318               | 305 | 133 | 399 | 19 | 25 | 450 <sup>Ⓞ</sup> | 545 | 400 | 89 | 365              | 95   | 947 <sup>Ⓞ</sup> | 1057  | 947 <sup>Ⓞ</sup> | 1057  | T55                                   | M36x3   | 110 | 82              | 14 | 9  | 5.5 | 5 |

| REVISION | DATE     | DETAIL OF REVISION  | DONE BY | APPRVD |
|----------|----------|---|---------|--------|
| 09       | 14.04.14 | 'E2' Dimension for Pt.No. 3 & 4 Changed to 82 was 87  |         |        |
| 08       | 07.07.11 | Unification of KS160 M&L Frame  |         |        |
| 07       | 06.06.11 | EARTHING TERMINAL INCORPORATED  |         |        |
| 06       | 19.07.10 | 'G' Dimn. for Pt.1 Changed to 24mm. was 27mm.   |         |        |
| 05       | 14.12.07 | COMPANY NAME AND LOGO CHANGED   |         |        |
| 04       | 05.05.06 | 'BB' Dimension for KS180 Frame was 394 mm.<br>'AC' Dimension for KS200 Frame was 494 mm.<br>'L' & 'L1' Dimension for KS20 Frame was 942 mm. |         |        |
| 03       | 11.09.04 | DRAWING GENERALLY REVISED   |         |        |
| B        | 10.11.97 | 'L' & 'L1' DIM. ALTERED (OLD 704) FOR PT.2  | B.B.    | S.B.   |
| A        | 19.04.97 | 'G' FOR PART 3 & 4 CHANGED  | B.B.    | S.B.   |

ALL DIMENSIONS ARE IN MILLIMETRE

**marathon electric**  
A Regal Beloit Company

**Marathon Electric Motors (India) Limited**  
Paharpur Works, 58 Taratala Road.  
Kolkata - 700024, INDIA

TITLE: OUTLINE DIMENSION DRAWING FOR 112M TO 200L  
(KRANE MOTOR.)

|         |            |          |              |             |      |
|---------|------------|----------|--------------|-------------|------|
| DRAWN   | B.BISWAS   | 23.07.96 |              |             |      |
| CHECKED | S.BHOWMICK | 23.07.96 |              | DRAWING NO. | REV. |
| APPRVD. | R.RANJAN   | 23.07.96 | SCALE IF ANY | CM1383      | 09   |
|         |            | SIGN     | DATE         |             |      |

**Model No.** KS2P6013B25W45XSX

**Part No.**

| 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] |      |     | %   |      |                   |         |
| 2.6  | 3.5  | 705   | 2.5  | 102  | 415 | 50   | 6.9 | 14.2 | 110 | 25  | S5   | 300               | KS132MB |

|                                  |           |   |                          |
|----------------------------------|-----------|---|--------------------------|
| Motor type                       | Slipring  | Degree of protection                      | IP-55                    |
| Enclosure                        | TEFC      | Motor weight - approx.                    | 115 kg                   |
| Frame Material                   | -         | Gross weight- approx.                     | kg                       |
| Mounting type                    | IMB3      | Motor GD2                                 | 0.19 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                                | 6308 ZZ                  |
| Rotor Connection                 | Star      | NDE Bearing                               | 6308 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.