## **PRODUCT INFORMATION PACKET**

Model No: KS2P2013B40X45XSX Catalog No: KS2P2013B40X45XSX 2.2 Kw, Crane Duty Slipring Motors , 3 phase, 8 Pole, 415 V, S5 Duty, KS132MB Frame, 40 CDF, 600 Start/Hr., TEFC



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marathon<sup>®</sup>

Motors

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# marathon<sup>®</sup>

### Nameplate Specifications

| Output HP                     | 3 Нр          | Output KW                  | 2.2 kW                      |
|-------------------------------|---------------|----------------------------|-----------------------------|
| Frequency                     | 50 Hz         | Voltage                    | 415 V                       |
| Current                       | 6.2 A         | Speed                      | 715 rpm                     |
| Phase                         | 3             | Duty                       | S5                          |
| Frame                         | KS132MB       | Enclosure                  | Totally Enclosed Fan Cooled |
| Thermal Protection            | No Protection | Ambient Temperature        | 45 °C                       |
| Drive End Bearing Size        | 6308 ZZ       | Opp Drive End Bearing Size | 6308 ZZ                     |
| UL                            | No            | CSA                        | Νο                          |
| CE                            | No            | IP Code                    | 55                          |
| CDF                           | 40 %          | Start/Hr                   | 600                         |
| RA                            | 12 A          | RV                         | 110 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       | Slipring              | Starting Method       | Rotor resistance starter |
|-----------------------|-----------------------|-----------------------|--------------------------|
| Rotation              | <b>Bi-Directional</b> | 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        | 700.00 mm                |
| Frame Length          | 700.00 mm             | Shaft Diameter        | 38.000 mm                |
| Shaft Extension       | 80 mm                 | Assembly/Box Mounting | Тор                      |
| Rotor GD2             | 0.19 kg⋅m²            | Pull Out Torque       | 3                        |
| Connection Drawing    | DP2019                | Outline Drawing       | CM1383                   |

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|     | FRAME  | POLE | D(SHA | FT DIA)        | Е   | GA   |      | F         | G    | D         |      | G       | н    |            | FIX | ING DIN | IENSI | ONS | K  |    |                   |     | 4.5 |    |                         |      |                  | 10    | 14                | 1.01  | TAPI       | ER SHAF | T DIME | NSION            | IS DET | 'AILS (E | BOTH) |   |
|-----|--------|------|-------|----------------|-----|------|------|-----------|------|-----------|------|---------|------|------------|-----|---------|-------|-----|----|----|-------------------|-----|-----|----|-------------------------|------|------------------|-------|-------------------|-------|------------|---------|--------|------------------|--------|----------|-------|---|
| NO. |        |      | NOM.  | TOL.           |     |      | NOM. | TOL.      | NOM. | TOL.      | NOM. | TOL.    | NOM. | TOL.       | A   | в       | С     | CA  | r  | HA | AC                | HD  | AB  | AA | BB                      | BA   |                  | LC    | L1                | LC1   | D1         | D2      | E1     | E2               | F1     | H1       | G1    | Q |
| 1   | KS112M | 4-8  | 28    | +.009<br>004   | 60  | 31   | 8    | +0<br>036 | 7    | +0<br>090 | 24   | +0<br>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    | +.018<br>+.002 | 80  | 41   | 10   | +0<br>036 | 8    | +0<br>090 | 33   | +0<br>2 | 132  | +0<br>-0.5 | 216 | 178     | 89    | 358 | 12 | 15 | 300               | 380 | 260 | 55 | 220                     | 55   | 700              | 785   | 700               | 785   | <b>T38</b> | M20x1.5 | 80     | 54               | 8      | 7        | 4     | 5 |
| 3   | KS160M | 4-8  | 42    | +.018<br>+.002 | 110 | 45   | 12   | +0<br>043 | 8    | +0<br>090 | 37   | +0<br>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>09</sup> | 10     | 8        | 5     | 5 |
| 4   | KS160L | 4-8  | 42    | +.018<br>+.002 | 110 | 45   | 12   | +0<br>043 | 8    | +0<br>090 | 37   | +0<br>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>09</sup> | 10     | 8        | 5     | 5 |
| 5   | KS180L | 4-8  | 48    | +.018<br>+.002 | 110 | 51.5 | 14   | +0<br>043 | 9    | +0<br>090 | 42.5 | +0<br>2 | 180  | +0<br>-0.5 | 279 | 279     | 121   | 370 | 15 | 21 | 445               | 490 | 340 | 75 | <b>340</b> <sup>@</sup> | 85   | 875              | 990   | 875               | 990   | T48        | M30x2   | 110    | 82               | 12     | 8        | 5     | 5 |
| 6   | KS200L | 4-8  | 55    | +.030<br>+.011 | 110 | 59   | 16   | +0<br>052 | 10   | +0<br>090 | 49   | +0<br>2 | 200  | +0<br>-0.5 | 318 | 305     | 133   | 399 | 19 | 25 | 450 <sup>69</sup> | 545 | 400 | 89 | 365                     | 95   | 947 <sup>®</sup> | 1057  | 947 <sup>03</sup> | 1057  | T55        | M36x3   | 110    | 82               | 14     | 9        | 5.5   | 5 |

| 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   |         |       |
| В      | 10.11.97 | 'L' & 'L1' DIM. ALTERED (OLD 704) FOR PT.2  | B.B.    | S.B.  |
| А      | 19.04.97 | 'G' FOR PART 3 & 4 CHANGED  | B.B.    | S.B.  |
| VISION | DATE     | DETAIL OF REVISION  | DONE BY | APPRV |

| 32      | <b>mar</b><br>gal Bel |
|---------|-----------------------|
| TITLE   | OUTI                  |
| DRAWN   | B.BISWAS              |
| CHECKED | S.BHOWM               |
| APPRVD. | R.RANJAN              |
|         |                       |
|         |                       |







| Model N | No. | KS2P2013B40X45XSX    |
|---------|-----|----------------------|
|         |     | 1021 20100 10/(10/0) |

Part No.

| Р    | Р    | n     | POT  | Т    | U   | f    | Ι   | RA | RV  | CDF | Duty | No. of Starts/Hr. | Frame   |  |
|------|------|-------|------|------|-----|------|-----|----|-----|-----|------|-------------------|---------|--|
| [kW] | [hp] | [RPM] | XFLT | [Nm] | (V) | [Hz] | [A] |    |     | %   |      |                   | Tame    |  |
| 2.2  | 3    | 715   | 3    | 102  | 415 | 50   | 6.2 | 12 | 110 | 40  | S5   | 600               | KS132MB |  |

| Motor type                       | Slipring  | Degree of protection                      | IP-55                    |                  |
|----------------------------------|-----------|---|--------------------------|------------------|
| Enclosure                        | TEFC      | Motor weight - approx.                    | 115                      | kg               |
| Frame Material                   | -         | Gross wight- 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                     | <b>Bi-directional</b>    |                  |
| 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                     | Тор                      |                  |
| 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.

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