## PRODUCT INFORMATION PACKET



Model No: KS9P8020B60X35XSX Catalog No: AL08D4030MFAFTOAOO

9.8 Kw, Crane Duty Slipring Motors, 3 phase, 6 Pole, 415 V, S5 Duty, KS200L2 Frame, 60 CDF,

600 Start/Hr., TEFC





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## Nameplate Specifications

| Output HP                     | 13.10 Hp      | Output KW                  | 9.8 kW                      |
|-------------------------------|---------------|----------------------------|-----------------------------|
| Frequency                     | 50 Hz         | Voltage                    | 415 V                       |
| Current                       | 24.0 A        | Speed                      | 983 rpm                     |
| Phase                         | 3             | Duty                       | <b>S</b> 5                  |
| Frame                         | KS200L2       | Enclosure                  | Totally Enclosed Fan Cooled |
| Thermal Protection            | No Protection | Ambient Temperature        | 45 °C                       |
| Drive End Bearing Size        | 6312          | Opp Drive End Bearing Size | 6312                        |
| UL                            | No            | CSA                        | No                          |
| CE                            | No            | IP Code                    | 55                          |
| CDF                           | 60 %          | Start/Hr                   | 600                         |
| RA                            | 23 A          | RV                         | 260 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              | 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        | 947.00 mm                |
| Frame Length          | 947.00 mm       | Shaft Diameter        | 55.000 mm                |
| Shaft Extension       | 110 mm          | Assembly/Box Mounting | Тор                      |
| Rotor GD2             | 2.3 kg⋅m²       | Pull Out Torque       | 5.6                      |
| Outline Drawing       | CM1383          | Connection Drawing    | DP2280                   |

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|     | FRAME  | POLE | D(SHAFT DIA) |                | E   | GA   | l    | F         | G    | SD D      | (    | 3       | н    |            | FIXI | NG DI | MENSI | ONS | K  | НА | 40               | HD  | AD  | AA | ВВ               | DA   |     | 10    | L1               | LC1   | TAP | ER SHAF | T DIME | NSION                   | IS DET | AILS (I | вотн) |   |
|-----|--------|------|--------------|----------------|-----|------|------|-----------|------|-----------|------|---------|------|------------|------|-------|-------|-----|----|----|------------------|-----|-----|----|------------------|------|-----|-------|------------------|-------|-----|---------|--------|-------------------------|--------|---------|-------|---|
| NO. |        |      | NOM.         | TOL.           |     |      | NOM. | TOL.      | NOM. | TOL.      | NOM. | TOL.    | NOM. | TOL.       | Α    | В     | С     | CA  |    | ПА | AC               | טח  | AB  | AA | DD               | BA   | _   | LC    |                  | LOI   | 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        | 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   | T38 | 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    | <b>82</b> <sup>©</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    | <b>82</b> <sup>©9</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 | 340 <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>©</sup> | 545 | 400 | 89 | 365              | 95   | 947 | 1057  | 947 <sup>©</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  |         | ALL DIMENSIONS ARE IN N  |
| 06       | 19.07.10 | 'G' Dimn. for Pt.1 Changed to 24mm. was 27mm.   |         | marathon• Marathon Electric Motors (India) Limited Paharpur Works, 58 Taratala Road. |
| 05       | 14.12.07 | COMPANY NAME AND LOGO CHANGED   |         | Paharpur Works, 58 Taratala Road.  A Regal Beloit Company  Kolkata - 700024 , INDIA  |
| 04       | 05.05.06 | 'BB' Dimension for KS180 Frame was 394 mm. 'AC' Dimension for KS200 Frame was 494 mm. 'L' & 'L1' Dimension for KS20 Frame was 942 mm. |         | OUTLINE DIMENSION DRAWING FOR 112M TO  |
| 03       | 11.09.04 | DRAWING GENERALLY REVISED   |         | (KRANE MOTOR.)   |
| В        | 10.11.97 | 'L' & 'L1' DIM. ALTERED (OLD 704) FOR PT.2 B.B.   | S.B.    | DRAWN B.BISWAS 23.07.96 DRAWING NO.  |
| А        | 19.04.97 | 'G' FOR PART 3 & 4 CHANGED B.B.   | S.B.    | CHECKED S.BHOWMICK 23.07.96  |
| REVISION | DATE     | DETAIL OF REVISION DONE   | BY APPR | APPRVD. R.RANJAN 23.07.96 SCALE IF ANY SIGN DATE N.T.S CM1383                        |



Model No. KS9P8020B60X35XSX

Part No.

AL08D4030MFAFTOAOO

| Р    | Р    | n     | РОТ  | Т    | U   | f    | I   | RA | RV  | CDF | Duty | No. of Starts/Hr.  | Frame   |  |
|------|------|-------|------|------|-----|------|-----|----|-----|-----|------|--------------------|---------|--|
| [kW] | [hp] | [RPM] | XFLT | [Nm] | (V) | [Hz] | [A] |    |     | %   |      | NO. OF Starts/Til. | Frame   |  |
| 9.8  | 13.1 | 983   | 5.6  | 606  | 415 | 50   | 24  | 23 | 260 | 60  | S5   | 600                | KS200L2 |  |

| Motor type                       | Slipring  | Degree of protection                      | IP-55                    |                  |  |  |
|----------------------------------|-----------|---|--------------------------|------------------|--|--|
| Enclosure                        | TEFC      | Motor weight - approx.                    | 375                      | kg               |  |  |
| Frame Material                   |           | Gross wight- approx.                      |                          | kg               |  |  |
| Mounting type                    | IMB3      | Motor GD2                                 | 2.3                      | 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                     | Тор                      |                  |  |  |
| Efficiency                       |           | Max. Cable size                           | Refer to TBA drg.        |                  |  |  |
| Power Factor                     |           | Bearing type                              | Antifriction             |                  |  |  |
| Stator Connection                | Delta     | DE Bearing                                | 6312                     |                  |  |  |
| Rotor Connection                 | Star      | NDE Bearing                               | 6312                     |                  |  |  |
|                                  |           | 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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