## **PRODUCT INFORMATION PACKET**

Model No: KS116P31D40V34XSX Catalog No: AL08D7630MFAFTOAOO 116.0 Kw, Crane Duty Slipring Motors , 3 phase, 6 Pole, 415 V, S4 Duty, KS315MB Frame, 40 CDF, 150 Start/Hr., TEFC



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# marathon<sup>®</sup>

#### Nameplate Specifications

| Output HP                     | 156 Hp        | Output KW                  | 116.0 kW                    |
|-------------------------------|---------------|----------------------------|-----------------------------|
| Frequency                     | 50 Hz         | Voltage                    | 415 V                       |
| Current                       | 204.0 A       | Speed                      | 984 rpm                     |
| Phase                         | 3             | Duty                       | S4                          |
| Frame                         | KS315MB       | Enclosure                  | Totally Enclosed Fan Cooled |
| Thermal Protection            | No Protection | Ambient Temperature        | 45 ℃                        |
| Drive End Bearing Size        | 6319          | Opp Drive End Bearing Size | 6319                        |
| UL                            | No            | CSA                        | No                          |
| CE                            | No            | IP Code                    | 55                          |
| CDF                           | 40 %          | Start/Hr                   | 150                         |
| RA                            | 142 A         | RV                         | 500 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        | 1425.00 mm               |
| Frame Length          | 1425.00 mm            | Shaft Diameter        | 80.000 mm                |
| Shaft Extension       | 170 mm                | Assembly/Box Mounting | Тор                      |
| Rotor GD2             | 20 kg⋅m²              | Pull Out Torque       | 3.5                      |
| Connection Drawing    | DP3152                | Outline Drawing       | cm5906                   |

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|          |          |                                                   |         | NOTE:<br>1.0 ALL DIMENSIONS ARE IN mm EXCEPT OTHERWISE SPECIFIED.<br>2.0 FOR TOLERANCES OF DEMENSIONS(NOT MENTIONED) REFER TO IS:2102. |                                             | narati<br>al Beloit Co | -tric  | Paharpur Works, 58 Taratala Road.<br>Kolkata - 700024 , INDIA |         |            |                 |                |
|----------|----------|---------------------------------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|------------------------|--------|---------------------------------------------------------------|---------|------------|-----------------|----------------|
|          |          |                                                   |         |                                                                                                                                        | 3.0 DIMENSIONS MARKED * ARE MAXIMUM VALUES. |                        |        |                                                               | ENSIC   | ON DRAWIN  | NG FOR KS280S   | <u>&amp; M</u> |
|          |          |                                                   |         |                                                                                                                                        |                                             | TITLE                  | KS315S | & M M                                                         | OTOR    | (CYLINDR   | ICAL & TAPER SH | <u> HAFT</u> ) |
| 02       | 28.11.11 | IN THE FIGURE 'L1' AND 'LC1' DIM.<br>INCORPORATED |         |                                                                                                                                        |                                             | DRAWN                  | S.B    | 18                                                            | 3.12.07 | PROJECTION | DRAWING NO.     |                |
|          | 06.06.11 | EARTHING TERMINAL INCORPORATED                    |         |                                                                                                                                        |                                             |                        | KAUSIK |                                                               |         |            |                 |                |
| REVISION | DATE     | DETAIL OF REVISION                                | DONE BY | APPRVD                                                                                                                                 |                                             | 4 of                   |        | SIGN                                                          | DATE    | N.T.S      | CM5906          | 02             |



| Model No. KS116P31D40V34XSX | Part No. | AL08D7630MFAFTOAOO |
|-----------------------------|----------|--------------------|
|-----------------------------|----------|--------------------|

| Р    | Р    | n     | ΡΟΤ  | Т    | U   | f    | Ι   | RA  | RV  | CDF | Duty | No. of Starts/Hr. | Frame   |  |
|------|------|-------|------|------|-----|------|-----|-----|-----|-----|------|-------------------|---------|--|
| [kW] | [hp] | [RPM] | XFLT | [Nm] | (V) | [Hz] | [A] |     |     | %   |      |                   | France  |  |
| 116  | 156  | 984   | 3.5  | 3864 | 415 | 50   | 204 | 142 | 500 | 40  | S4   | 150               | KS315MB |  |

| Motor type                       | Slipring  | Degree of protection                      | IP-55                    |                  |
|----------------------------------|-----------|-------------------------------------------|--------------------------|------------------|
| Enclosure                        | TEFC      | Motor weight - approx.                    | 1430                     | kg               |
| Frame Material                   | -         | Gross wight- approx.                      |                          | kg               |
| Mounting type                    | IMB3      | Motor GD2                                 | 20                       | 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                                | 6319                     |                  |
| Rotor Connection                 | Star      | NDE Bearing                               | 6319                     |                  |
|                                  |           | 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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