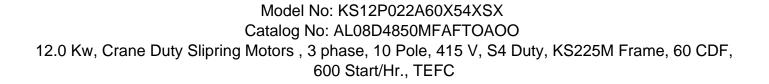
PRODUCT INFORMATION PACKET





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Motors

Product Information Packet: Model No: KS12P022A60X54XSX, Catalog No:AL08D4850MFAFTOAOO 12.0 Kw, Crane Duty Slipring Motors, 3 phase, 10 Pole, 415 V, S4 Duty, KS225M Frame, 60 CDF, 600 Start/Hr., TEFC

marathon®

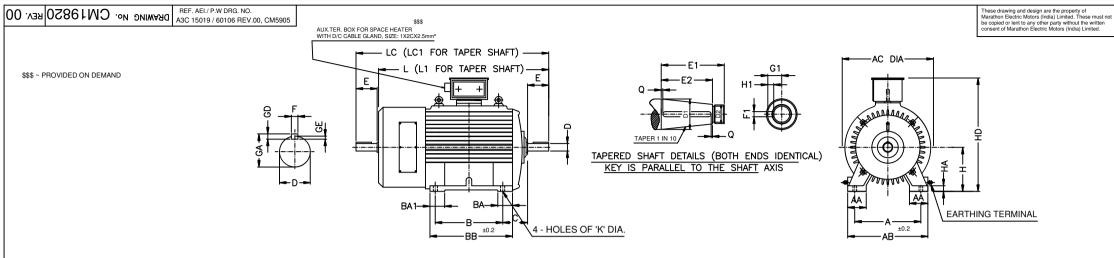
Nameplate Specifications

| Phase | 3 | Output HP | 16 Hp |
|-------------------------------|-----------------------------|----------------------------|---------------|
| Output KW | 12.0 kW | Voltage | 415 V |
| Speed | 591 rpm | Frame | KS225M |
| Enclosure | Totally Enclosed Fan Cooled | Thermal Protection | No Protection |
| Ambient Temperature | 45 ℃ | Frequency | 50 Hz |
| Current | 43.0 A | Duty | S4 |
| Drive End Bearing Size | 6314 | Opp Drive End Bearing Size | 6314 |
| UL | No | CSA | No |
| CE | No | IP Code | 55 |
| CDF | 60 % | Start/Hr | 600 |
| RA | 25.3 A | RV | 285 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 | 1077.00 mm |
| Frame Length | 1077.00 mm | Shaft Diameter | 60.000 mm |
| Shaft Extension | 140 mm | Assembly/Box Mounting | Тор |
| Rotor GD2 | 5.1 kg·m² | Pull Out Torque | 5.1 |
| Connection Drawing | DP2325 | Outline Drawing | CM19820.00 |

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DIMENSIONAL DETAILS:-

| | FRAME | NO OF | Н | | FIXING DIMENSION | | | | НА | AC-DIA | HD | АА | | | | BB |
|---|--------|-------|-----|------|------------------|-----|-----|----|----|--------|-----|-----|-----|-----|-----|-----|
| | | POLE | NOM | TOL | Α | В | С | К | | | ΗU | AA | AB | BA | BA1 | DD |
| ł | KS225S | 4 -12 | 225 | -0.5 | 356 | 286 | 149 | 19 | 27 | 500 | 635 | 108 | 457 | 108 | 108 | 345 |
| ł | KS225M | 4 -12 | 225 | -0.5 | 356 | 311 | 149 | 19 | 27 | 500 | 635 | 108 | 457 | 108 | 108 | 370 |
| ł | KS250S | 4 -12 | 250 | -0.5 | 406 | 311 | 168 | 24 | 30 | 500 | 660 | 108 | 483 | 115 | 115 | 382 |
| ł | KS250M | 4 -12 | 250 | -0.5 | 406 | 349 | 168 | 24 | 30 | 500 | 660 | 108 | 483 | 115 | 115 | 420 |

| | CYLINDRICAL SHAFT DIMENSIONS DETAILS (BOTH ENDS) | | | | | | | | | | | | TAPER SHAFT DIMENSIONS DETAILS (BOTH) | | | | | | | | | |
|--------|--|------|-----|-----|------------------|----|-----|--------|-----|--------|-----|------|---------------------------------------|------|------|-------|-----|-----|----|----|------|---|
| FRAME | L | LC | Е | [| C | GA | | F | G | D | Ģ | Ε | L1 | LC1 | D1 | D2 | E1 | E2 | F1 | H1 | G1 | Q |
| | | | | NOM | TOL | | NOM | TOL | NOM | TOL | NOM | TOL | 1 | | | | | | | | | |
| KS225S | 1053 | 1194 | 140 | 60 | +0.030 +0.011 | 64 | 18 | -0.052 | 11 | -0.011 | 7 | +0.2 | 1053 | 1194 | T 60 | M42x3 | 140 | 105 | 16 | 10 | 31.4 | 5 |
| KS225M | 1077 | 1218 | 140 | 60 | +0.030 +0.011 | 64 | 18 | -0.052 | 11 | -0.011 | 7 | +0.2 | 1077 | 1218 | T 60 | M42x3 | 140 | 105 | 16 | 10 | 31.4 | 5 |
| KS250S | 1117 | 1256 | 140 | 65 | +0.030 +0.011 | 69 | 18 | -0.052 | 11 | -0.011 | 7 | +0.2 | 1117 | 1256 | T 70 | M48x3 | 140 | 105 | 18 | 11 | 36.4 | 5 |
| KS250M | 1155 | 1294 | 140 | 65 | +0.030 +0.011 | 69 | 18 | -0.052 | 11 | -0.011 | 7 | +0.2 | 1155 | 1294 | T 70 | M48x3 | 140 | 105 | 18 | 11 | 36.4 | 5 |

| | | | | | | | | narati al Beloit Co | | Paha | | lotors (India) Limited 3 Taratala Road. NDIA | |
|----------|------|-----------|----------|---------|--------|---|---------|--|--------|----------|--------------|--|----------|
| | | | | | | | | | IE DIN | IENSI | ON DRAWI | NG FOR KS225S & | зM |
| | | | | | | 1.0 ALL DIMENSIONS ARE IN mm EXCEPT OTHERWISE SPECIFIED. 2.0 FOR TOLERANCES OF DIMENSIONS(NOT MENTIONED) REFER TO IS:2102. | TITLE | E KS250S & M MOTOR (CYLINDRICAL & TAPER SHAFT) | | | | | AFT) |
| | | | | | | 3.0 DIMENSIONS MARKED * ARE MAXIMUM VALUES. | | | | | | | - |
| | | | | | | | DRAWN | S.B | | 27.10.17 | PROJECTION | DRAWING NO. | REV. |
| | | | | | | | CHECKED | KAUSIK | | | -⊕∈ | | <u> </u> |
| | | | | | | | APPRVD. | P.LAHIRI | | | SCALE IF ANY | CM19820 | 00 |
| REVISION | DATE | DETAIL OF | REVISION | DONE BY | APPRVD | | | | SIGN | DATE | N.T.S | 010110020 | 00 |



| Model No. KS12P022A60X54XSX | Part No. | AL08D4850MFAFTOAOO |
|-----------------------------|----------|------------------------|
| NOUCEINO. KSIZFUZZAUDAJ4ASA | rait No. | ALUOD40JUIVII AI TUAUU |

| 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] | | | % | | | Frame | |
| 12 | 16 | 591 | 5.1 | 1001 | 415 | 50 | 43 | 25.3 | 285 | 60 | S4 | 600 | KS225M | |

| Motor type | Slipring | Degree of protection | IP-55 | |
|----------------------------------|-----------|---|-------------------|------------------|
| Enclosure | TEFC | Motor weight - approx. | 550 | kg |
| Frame Material | - | Gross wight- approx. | | kg |
| Mounting type | IMB3 | Motor GD2 | 5.1 | kgm ² |
| 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 r | esistance starter | |
| Combined variation | 10% | Coupling Dire | ect / Gearbox | |
| Insulation class | F/F | Direction of rotation Bi | i-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 Refe | er to TBA drg. | |
| Power Factor | | Bearing type A | Antifriction | |
| Stator Connection | Delta | DE Bearing | 6314 | |
| Rotor Connection | Star | NDE Bearing | 6314 | |
| | | 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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