PRODUCT INFORMATION PACKET





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marathon[®]

Motors



Product Information Packet: Model No: KS1P7013B10V44XSX, Catalog No:KS1P7013B10V44XSX 1.7 Kw, Crane Duty Slipring Motors, 3 phase, 8 Pole, 415 V, S4 Duty, KS132MB Frame, 100 CDF, 150 Start/Hr., TEFC

marathon®

Nameplate Specifications

| Output HP | 2.30 Hp | Output KW | 1.7 kW |
|-------------------------------|---------------|----------------------------|-----------------------------|
| Frequency | 50 Hz | Voltage | 415 V |
| Current | 5.5 A | Speed | 720 rpm |
| Phase | 3 | Duty | S4 |
| Frame | KS132MB | Enclosure | Totally Enclosed Fan Cooled |
| Thermal Protection | No Protection | Ambient Temperature | 45 ℃ |
| Drive End Bearing Size | 6308 ZZ | Opp Drive End Bearing Size | 6308 ZZ |
| UL | No | CSA | No |
| CE | No | IP Code | 55 |
| CDF | 100 % | Start/Hr | 150 |
| RA | 9.3 A | RV | 110 V |
| | | | |
| Insulation class Stator/Rotor | F/F | Temp. Rise Stator/Rotor | 75/75 K |
| Stator Connection | F/F Delta | Rotor Connection | Star |

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 | 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 | 4.4 |
| Outline Drawing | CM1383 | Connection Drawing | DP2004 |

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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 | +.009 004 | 60 | 31 | 8 | +0 036 | 7 | +0 090 | 24 | +0 2 | 112 | +0 -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 +.002 | 80 | 41 | 10 | +0 036 | 8 | +0 090 | 33 | +0 2 | 132 | +0 -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 +.002 | 110 | 45 | 12 | +0 043 | 8 | +0 090 | 37 | +0 2 | 160 | +0 -0.5 | 254 | 210 | 108 | 347 | 15 | 20 | 350 | 440 | 305 | 55 | 305 | 92.5 | 815 | 932 | 815 | 932 | T42 | M24x2 | 110 | 82 ⁰⁹ | 10 | 8 | 5 | 5 |
| 4 | KS160L | 4-8 | 42 | +.018 +.002 | 110 | 45 | 12 | +0 043 | 8 | +0 090 | 37 | +0 2 | 160 | +0 -0.5 | 254 | 254 | 108 | 347 | 15 | 20 | 350 | 440 | 305 | 55 | 305 | 92.5 | 815 | 932 | 815 | 932 | T42 | M24x2 | 110 | 82 ⁰⁹ | 10 | 8 | 5 | 5 |
| 5 | KS180L | 4-8 | 48 | +.018 +.002 | 110 | 51.5 | 14 | +0 043 | 9 | +0 090 | 42.5 | +0 2 | 180 | +0 -0.5 | 279 | 279 | 121 | 370 | 15 | 21 | 445 | 490 | 340 | 75 | 340 [@] | 85 | 875 | 990 | 875 | 990 | T48 | M30x2 | 110 | 82 | 12 | 8 | 5 | 5 |
| 6 | KS200L | 4-8 | 55 | +.030 +.011 | 110 | 59 | 16 | +0 052 | 10 | +0 090 | 49 | +0 2 | 200 | +0 -0.5 | 318 | 305 | 133 | 399 | 19 | 25 | 450 ⁶⁹ | 545 | 400 | 89 | 365 | 95 | 947 [®] | 1057 | 947 ⁰³ | 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. 'AC' Dimension for KS200 Frame was 494 mm. '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 | mar gal Bel |
|---------|-----------------------|
| TITLE | OUTI |
| DRAWN | B.BISWAS |
| CHECKED | S.BHOWM |
| APPRVD. | R.RANJAN |
| | |
| | |







| Model No. KS1P7013B10V |
|------------------------|
|------------------------|

Part No.

| Р | Р | n | POT | Т | U | f | I | RA | RV | CDF | Duty | No. of Starts/Hr. | Eramo | |
|------|------|-------|------|------|-----|------|-----|-----|-----|-----|------|-------------------|---------|--|
| [kW] | [hp] | [RPM] | XFLT | [Nm] | (V) | [Hz] | [A] | | | % | | | Frame | |
| 1.7 | 2.3 | 720 | 4.4 | 102 | 415 | 50 | 5.5 | 9.3 | 110 | 100 | S4 | 150 | 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 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 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 | 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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