PRODUCT INFORMATION PACKET



Model No: KS7P5016F25V34XSX Catalog No: AL08D2430MFAFTOAOO

7.5 Kw, Crane Duty Slipring Motors, 3 phase, 6 Pole, 415 V, S4 Duty, KS160M2 Frame, 25 CDF,

150 Start/Hr., TEFC





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Nameplate Specifications

| Output HP | 10 Hp | Output KW | 7.5 kW |
|-------------------------------|---------------|----------------------------|-----------------------------|
| Frequency | 50 Hz | Voltage | 415 V |
| Current | 17.0 A | Speed | 965 rpm |
| Phase | 3 | Duty | S4 |
| Frame | KS160M2 | Enclosure | Totally Enclosed Fan Cooled |
| Thermal Protection | No Protection | Ambient Temperature | 45 °C |
| Drive End Bearing Size | 6309 ZZ | Opp Drive End Bearing Size | 6309 ZZ |
| UL | No | CSA | No |
| CE | No | IP Code | 55 |
| CDF | 25 % | Start/Hr | 150 |
| RA | 24 A | RV | 185 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 | 815.00 mm |
| Frame Length | 815.00 mm | Shaft Diameter | 42.000 mm |
| Shaft Extension | 110 mm | Assembly/Box Mounting | Тор |
| Rotor GD2 | 0.64 kg·m² | Pull Out Torque | 2.9 |
| Connection Drawing | DP2143 | Outline Drawing | CM1383 |

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| | FRAME | RAME POLE D(SHAFT DIA) E GA F GD G | | н | | FIXING DIMENSIONS | | | 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 | +.009 004 | 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 | 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 [©] | 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 ^{©9} | 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 [©] | 545 | 400 | 89 | 365 | 95 | 947 | 1057 | 947 [©] | 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. KS7P5016F25V34XSX

Part No.

AL08D2430MFAFTOAOO

| Р | Р | n | POT | Т | U | f | 1 | RA | RV | CDF | Duty | No. of Starts/Hr. | Frame | | |
|------|------|-------|------|------|-----|------|-----|----|-----|-----|------|--------------------|---------|--|--|
| [kW] | [hp] | [RPM] | XFLT | [Nm] | (V) | [Hz] | [A] | | | % | | NO. Of Starts/III. | Traine | | |
| 7.5 | 10 | 965 | 2.9 | 222 | 415 | 50 | 17 | 24 | 185 | 25 | S4 | 150 | KS160M2 | | |

| Motor type | Slipring | Degree of protection | IP-55 | |
|----------------------------------|-----------|---|--------------------------|------------------|
| Enclosure | TEFC | Motor weight - approx. | 200 | kg |
| Frame Material | - | Gross wight- approx. | | kg |
| Mounting type | IMB3 | Motor GD2 | 0.64 | 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 | 6309 ZZ | |
| Rotor Connection | Star | NDE Bearing | 6309 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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