

PRODUCT INFORMATION PACKET

Model No: KS37P028M40W44XSX

Catalog No: KS37P028M40W44XSX

37.0 Kw, Crane Duty Slipring Motors , 3 phase, 8 Pole, 415 V, S4 Duty, KS280SC Frame, 40 CDF,
300 Start/Hr., TEFC



Regal and Marathon are trademarks of Regal Rexnord Corporation or one of its affiliated companies.

©2023 Regal Rexnord Corporation, All Rights Reserved. MC017097E

Nameplate Specifications

| | | | |
|-------------------------------|----------------------|----------------------------|------------------------------------|
| Output HP | 50 Hp | Output KW | 37.0 kW |
| Frequency | 50 Hz | Voltage | 415 V |
| Current | 85.0 A | Speed | 738 rpm |
| Phase | 3 | Duty | S4 |
| Frame | KS280SC | Enclosure | Totally Enclosed Fan Cooled |
| Thermal Protection | No Protection | Ambient Temperature | 45 °C |
| Drive End Bearing Size | 6317 C3 | Opp Drive End Bearing Size | 6317 C3 |
| UL | No | CSA | No |
| CE | No | IP Code | 55 |
| CDF | 40 % | Start/Hr | 300 |
| RA | 87 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 | 1300.00 mm |
| Frame Length | 1300.00 mm | Shaft Diameter | 75.000 mm |
| Shaft Extension | 140 mm | Assembly/Box Mounting | Top |
| Rotor GD2 | 12.7 kg·m² | Pull Out Torque | 3.9 |
| Outline Drawing | cm5906 | Connection Drawing | DP3043 |

AUX. TER. BOX FOR SPACE HEATER \$\$\$ WITH D/C CABLE GLAND, SIZE: 1x2CX2.5mm³

This drawing and design are the property of Marathon Electric Motors (India) Limited. These must not be copied or lent to any other party without the written consent of Marathon Electric Motors (India) Limited.

\$\$\$ - PROVIDED ON DEMAND



DIMENSIONAL DETAILS:-

| FRAME | NO OF POLE | H | | FIXING DIMENSION | | | | HA | AC-DIA | HD | AA | AB | BA | BA1 | BB |
|--------|------------|-----|-----|------------------|-----|-----|----|----|--------|-----|-----|-----|-----|-----|-----|
| | | NOM | TOL | A | B | C | K | | | | | | | | |
| KS280S | 4 -12 | 280 | -1 | 457 | 368 | 190 | 24 | 32 | 560 | 830 | 112 | 560 | 120 | 120 | 490 |
| KS280M | 4 -12 | 280 | -1 | 457 | 419 | 190 | 24 | 32 | 560 | 830 | 112 | 560 | 120 | 120 | 490 |
| KS315S | 4 -12 | 315 | -1 | 508 | 406 | 216 | 28 | 36 | 620 | 885 | 120 | 620 | 143 | 143 | 520 |
| KS315M | 4 -12 | 315 | -1 | 508 | 457 | 216 | 28 | 36 | 620 | 885 | 120 | 620 | 143 | 143 | 520 |

| CYLINDRICAL SHAFT DIMENSIONS DETAILS (BOTH ENDS) | | | | | | | | | | | TAPER SHAFT DIMENSIONS DETAILS (BOTH) | | | | | | | | | | | |
|--------------------------------------------------|------|------|-----|-----|------------------|------|-----|--------|-----|------|---------------------------------------|------|------|------|------|-------|-----|-----|----|----|------|---|
| FRAME | L | LC | E | D | | GA | F | | GD | | GE | | L1 | LC1 | D1 | D2 | E1 | E2 | F1 | H1 | G1 | Q |
| | | | | NOM | TOL | | NOM | TOL | NOM | TOL | NOM | TOL | | | | | | | | | | |
| KS280S | 1300 | 1428 | 140 | 75 | +0.030 +0.011 | 79.5 | 20 | -0.052 | 12 | -110 | 7.5 | +0.2 | 1330 | 1488 | T 80 | M56x4 | 170 | 130 | 20 | 12 | 41.3 | 5 |
| KS280M | 1300 | 1428 | 140 | 75 | +0.030 +0.011 | 79.5 | 20 | -0.052 | 12 | -110 | 7.5 | +0.2 | 1330 | 1488 | T 80 | M56x4 | 170 | 130 | 20 | 12 | 41.3 | 5 |
| KS315S | 1425 | 1602 | 170 | 80 | +0.030 +0.011 | 85 | 22 | -0.052 | 14 | -110 | 9 | +0.2 | 1425 | 1602 | T 90 | M64x4 | 170 | 130 | 22 | 14 | 46.7 | 5 |
| KS315M | 1425 | 1602 | 170 | 80 | +0.030 +0.011 | 85 | 22 | -0.052 | 14 | -110 | 9 | +0.2 | 1425 | 1602 | T 90 | M64x4 | 170 | 130 | 22 | 14 | 46.7 | 5 |

NOTE:
 1.0 ALL DIMENSIONS ARE IN mm EXCEPT OTHERWISE SPECIFIED.
 2.0 FOR TOLERANCES OF DEMENSIONS(NOT MENTIONED) REFER TO IS:2102.
 3.0 DIMENSIONS MARKED * ARE MAXIMUM VALUES.

marathon electric
 A Regal Beloit Company
 Marathon Electric Motors (India) Limited
 Paharpur Works, 58 Taratala Road.
 Kolkata - 700024, INDIA

TITLE: **OUTLINE DIMENSION DRAWING FOR KS280S & M KS315S & M MOTOR (CYLINDRICAL & TAPER SHAFT)**

| | | | | |
|----------|----------|------------------------------------------------|---------|--------|
| 02 | 28.11.11 | IN THE FIGURE 'L1' AND 'LC1' DIM. INCORPORATED | | |
| 01 | 06.06.11 | EARTHING TERMINAL INCORPORATED | | |
| REVISION | DATE | DETAIL OF REVISION | DONE BY | APPRVD |

| | | | | | |
|---------|----------|----------|--------------|---------------|-----------|
| DRAWN | S.B | 18.12.07 | PROJECTION | DRAWING NO. | REV. |
| CHECKED | KAUSIK | | | | |
| APPRVD. | R.RANJAN | | SCALE IF ANY | CM5906 | 02 |
| 4 of 5 | | SIGN | DATE | N.T.S | |

Model No. KS37P028M40W44XSX**Part No.**

| P | P | n | POT | T | U | f | I | RA | RV | CDF | Duty | No. of Starts/Hr. | Frame |
|------|------|-------|------|------|-----|------|-----|----|-----|-----|------|-------------------|---------|
| [kW] | [hp] | [RPM] | XFLT | [Nm] | (V) | [Hz] | [A] | | | % | | | |
| 37 | 50 | 738 | 3.9 | 1853 | 415 | 50 | 85 | 87 | 260 | 40 | S4 | 300 | KS280SC |

| | | | |
|----------------------------------|-----------|-------------------------------------------|--------------------------|
| Motor type | Slipring | Degree of protection | IP-55 |
| Enclosure | TEFC | Motor weight - approx. | 1050 kg |
| Frame Material | - | Gross weight- approx. | kg |
| Mounting type | IMB3 | Motor GD2 | 12.7 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 | Top |
| Efficiency | | Max. Cable size | Refer to TBA drg. |
| Power Factor | | Bearing type | Antifriction |
| Stator Connection | Delta | DE Bearing | 6317 C3 |
| Rotor Connection | Star | NDE Bearing | 6317 C3 |
| | | 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.