



PART Nr. / NUMERO DE PARTE: 1LE23212AB214EA3

TYPE / TIPO: SD100

PHASE / FASES: 3

CONNECTION / CONECCIÓN: YY-Y

| ABB | | | | | | | | | | IE3 | |
|-----------------------------------|-----------|---------------------------|-------------|-----------|---------|--------------|-----------------|------------|--------------------------------------|-----|--|
| TYPE: SD100 | | PART Nr: 1LE23212AB214EA3 | | 215TC | IP 55 | 3PH | TEFC | NEMA B | | | |
| BEARINGS | | | SERIAL Nr. | | | | CONTINUOUS DUTY | | | | |
| D.E. | 40BC02JP3 | | INSUL. CL: | F | KVA: | H | WEIGHT | 198 lbs. | | | |
| O.D.E. | 40BC02JP3 | | AMB. TEMP.: | 40°C | T.RISE: | CLASS B | | EFFICIENCY | | | |
| HP | kW | R.P.M. | V | A | Hz | S.F. | S.F.A. | NOM. % | MIN. % | | |
| 10.0 | 7.46 | 1755 | 230/460 | 25.0/12.5 | 60 | 1.15 | 28.8/14.4 | 91.7 | 90.2 | | |
| 7.5 | 5.60 | 1467 | 200/400 | 24.9/12.4 | 50 | 1.15 | 28.6/14.3 | 89.6 | -- | | |
| CONNECTION | | | | | | | | | | | |
| VFD COMPATIBLE | | | Low Voltage | | | High Voltage | | | Class I Div. 2 GR A, B, C or D T3 | | |
| AT 1.0 S.F. 20:1 V.T., 20:1 C.T. | | | | | | | | | Class I Zone 2 GR IIA, IIB or IIC T3 | | |
| GREASE: POLYUREA BASE | | | | | | | | | | | |
| Made in Mexico by ABB NEMA MOTORS | | | | | | | | | | | |

**Actual nameplate will include certification marks for ex: UR, DOE, CE, CSA, NEMA PREMIUM, etc.

**La placa de datos del motor incluye logos de certificación, por ejemplo: UR, DOE, CE, CSA, NEMA PREMIUM, etc.



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Data sheet for three-phase Squirrel-Cage-Motors / Hoja de datos de Motores Trifásicos Jaula de Ardilla

| U [V] | Δ / Y | f [Hz] | P | | | n [rpm] | I Load [Amps] | | | | | Nom. Eff Load [%] | | | Pwr. Factor Load [%] | | | Torque [lb-ft] | T _A /T _N LRT [%] | T _K /T _N BDT [%] |
|------------------|-------|--|------|------|--------|-----------------|---------------|------------|------------------|----------|----------------------------|-------------------|------|--------|----------------------|-----------|------|-------------------|---|---|
| | | | [HP] | [kW] | | | 4/4 | 3/4 | 1/2 | 0 | LRC | 4/4 | 3/4 | 1/2 | 4/4 | 3/4 | 1/2 | | | |
| 230/460 | YY-Y | 60.0 | 10.0 | 7.5 | 1755.0 | 25 / 12.5 | 20 / 10 | 16 / 8 | 12.2 / 6.1 | 162 / 81 | 91.7 | 92.2 | 91.7 | 81.7 | 76.2 | 63.8 | 30.0 | 270.0 | 410.0 | |
| 200/400 | YY-Y | 50.0 | 7.5 | 5.6 | 1467.0 | 24.9 / 12.4 | 20.8 / 10.4 | 18.0 / 9.0 | 16.5 / 8.2 | 164 / 82 | 89.6 | 89.7 | 88.2 | 71.3 | 63.8 | 49.8 | 26.8 | 233.0 | 500.0 | |
| Frame 215TC | | Type of constr.: C - FLANGE WHIT FEET | | | | CONTINUOUS DUTY | | | INSUL. CL.: F | | WHITOUT WINDING PROTECTION | | | NEMA B | | S.F. 1.15 | | | | |
| Mtr WT: 198 lbs. | | Mounting MOUNTING - F 1 & W-6 FOR VERTICAL MOTORS P-BASE | | | | T.RISE: CLASS B | | | AMB. TEMP.: 40°C | | | KVA: H | | IP 55 | | | | | | |

Mechanical data / Datos Mecánicos

WK2

| | | |
|------------------------------|--------|--------------------|
| Rotor Moment of Inertia: | 0.8679 | lb-ft ² |
| Ext Load Inertia Capability: | 51 | lb-ft ² |

Safe Stall Time

| | |
|-------|--------|
| Hot: | 20 Sec |
| Cold: | 36 Sec |

Typical Noise Data

| | |
|------------------|----------|
| A-weighted Sound | |
| Sound Pressure: | 57 dB(A) |
| Sound Power: | 69 dB(A) |

Octave Band Center Frequencies Hertz: This values are for the standard bearing configuration.

| | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz |
|------------|-----|-----|------|------|------|------|-------|
| SPL@3 feet | 37 | 44 | 54 | 53 | 44 | 35 | dB(A) |

Bearings / Baleros

| | DE | NDE |
|---------------|-----------|-----------|
| Bearing size: | 40BC02JP3 | 40BC02JP3 |

Ventilation Type / Tipo de Ventilación

| | | | |
|------------------|---------------|---------------|------------------|
| Type of Cooling: | TEFC | Fan Material: | Polypropylen ESD |
| Fan Rotation: | Bidirectional | | |

Grease / Grasa

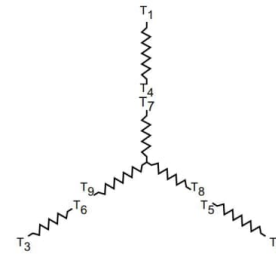
| | |
|------------|---------------------|
| Type: | Mobil Polyrex |
| Thickener: | Polyurea (Standard) |

Frame / Armazón

| | |
|-------------------------|------------------------------|
| Frame material: | Cast Iron |
| Coating (paint finish): | Standard Alkyed + Epoxy (C2) |
| Color, paint shade: | Dark Charcoal Gray Metallic |

Terminal box / Caja de Terminales

| | |
|------------------------|-------------------------------|
| Terminal box position: | Conduit Box (Entry from feet) |
|------------------------|-------------------------------|



3 PHASE - 9 LEAD - WYE

| VOLTS | LINES | | | CONNECTED TOGETHER | CONN. |
|-------|-------------------------------|-------------------------------|-------------------------------|---|-------|
| | L1 | L2 | L3 | | |
| LOW | T ₁ T ₇ | T ₂ T ₈ | T ₃ T ₉ | T ₄ T ₅ T ₆ | YY |
| HIGH | T ₁ | T ₂ | T ₃ | T ₄ T ₇ - T ₅ T ₈ - T ₆ T ₉ | Y |

Wiring diagram

Additional information.

| | |
|---------------------------|--------------------------------------|
| VFD Operation (V.T.): | 20:1 |
| VFD Operation (C.T.): | 20:1 |
| Area Classification: | Class I Division 2 Gr. A, B, C or D |
| Hazardouz Classification: | Class I Zone 2 GR IIA, IIB or IIC T3 |
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| Temp. Code: | T3 |