# HCP PUMP

| | |
|---|---|
| **Series** | **SA** |
| **Modelo** | **80SA21.5** |
| **Frecuencia** | **50** |
| **Fase / Voltaje** | **3 Ø / 380 V** |
| **Corriente Nominal** | **3.6 A** |
| **Descarga** | **80 mm (3")** |




## Datos del Motor

| | |
|---|---|
| Potencia de Entrada - P1 | 2 kW |
| Potencia Nominal - P2 | 1.5 kW |
| Clase de Aislamiento | F |
| Cantidad Máxima de Arranques por Hora | 10 |
| Velocidad de Rotación Estándar | 2820 |
| Método de Arranque | DOL |
| Índice de Protección IP | IP68 |
| A Prueba de Explosiones | NO |

## Tecnología

| | |
|---|---|
| Tipo de Impulsor | Open |
| Sello Mecánico | Double |
| Aceite Lubricante VG32 | 850 CC |
| Paso Sólido | 20 mm (13⁄16") |
| Tipo de Refrigeración | External cooling |

## Material

| | |
|---|---|
| Bastidor del Motor | SUS316 (AISI 316) |
| Eje | SUS316 (X5CrNiMo17-12-2) |
| Carcasa | SCS14 (G-X6CrNiMo1810) |
| Impulsor | SCS14 (G-X6CrNiMo1810) |
| Sello Mecánico | CA/CE&SiC/SiC |
| Cable | VCT,H07RN-F |
| Rodamientos Superior e Inferior | 6204ZZ,6305ZZ |

## Fluido

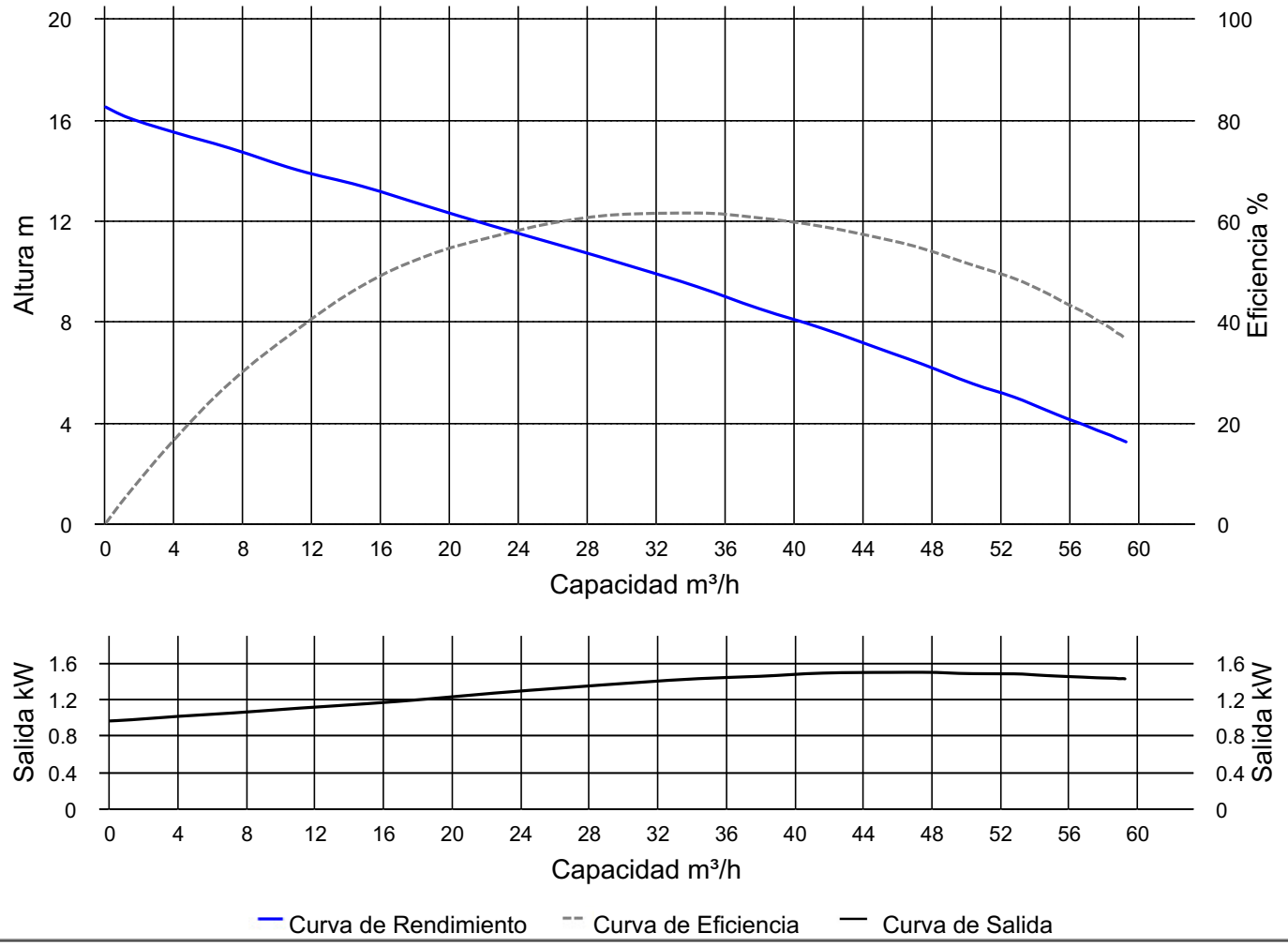
| | |
|---|---|
| Temperatura Ambiente Máxima | 0~40°C (32~104°F) |
| Profundidad Máxima de Instalación | 20m (66ft) |
| Temperatura Máxima del Fluido | 40 °C (104°F) |
| Fluido Bombeado | Acid and alkali sewage |

## Otros (Opcional)

| | |
|---|---|
| Dispositivo de Protección | Auto-cut Protector |
| Sensor de Humedad | (MS-A) |

# HCP PUMP

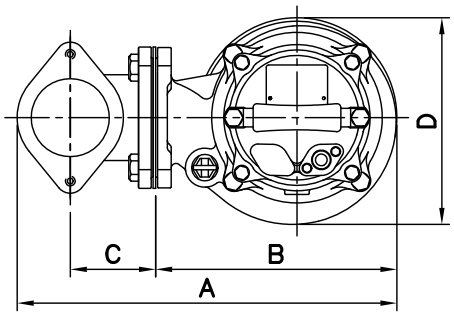
| PUMP PERFORMANCE CURVES | | | |
|---|---|---|---|
| **Modelo** | 80SA21.5 | **N.º de archivo** | 20261024022858 |
| **Frecuencia** | 50 Hz | **N.º de versión** | 202003060911 |
| **Descarga** | 3" / 80 mm | **REFERENCE SPECIFICATION** | |
| **Potencia** | 2 HP / 1.5 kW | **Salida** | 1.44 kW |
| **Altura Estándar** | 8.5 m | **Eficiencia** | 60.8 % |
| **Capacidad Estándar** | 36 m³/h | | |
| **Fase / Voltaje** | 3 Ø / 380 V | | |
| **Corriente Nominal** | 3.6 A | | |
| **Polo / rpm** | 2 P / 2820 rpm | | |
| **Método de Arranque** | DOL | | |
| **Clase de Aislamiento** | F | | |

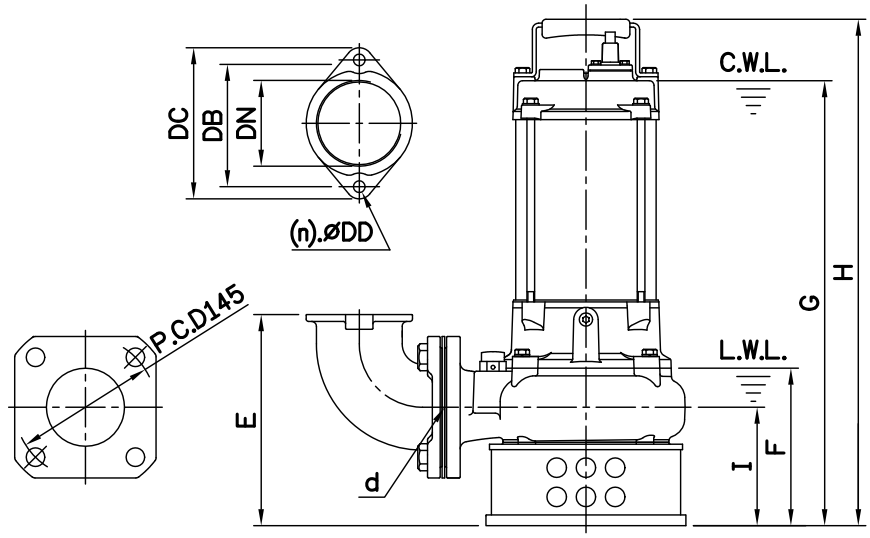



**HCP PUMP MANUFACTURER CO., LTD.**

## DIMENSIONS NO: S3SA0222030-00

## MODEL: 80SA21.5 / 22.2 50Hz 1Ø / 3Ø




Flange

| Female Thread | |
|---|---|
| PF | NPT |

Dimensions–mm Weight:kg

| Model | d | A | B | C | D | E | F | G | H | I | WT1 | Elbow (Flange)Set | DN | DB | DC | DD | (n)QTY | WT2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 80SA21.5 1Ø | 80 | 390 | 248 | 88 | 212 | 217 | 162 | 526 | 589 | 122 | 34 | ESB3-130K | 80 | 130 | 155 | 12 | 2 | 4 |
| 80SA21.5 3Ø | 80 | 390 | 248 | 88 | 212 | 217 | 162 | 457 | 520 | 122 | 30 | ESB3-130K | 80 | 130 | 155 | 12 | 2 | 4 |
| 80SA22.2 1Ø | 80 | 390 | 248 | 88 | 212 | 217 | 162 | 538 | 601 | 122 | 38 | ESB3-130K | 80 | 130 | 155 | 12 | 2 | 4 |
| 80SA22.2 3Ø | 80 | 390 | 248 | 88 | 212 | 217 | 162 | 457 | 520 | 122 | 33 | ESB3-130K | 80 | 130 | 155 | 12 | 2 | 4 |

Dimensions–inch Weight:lb

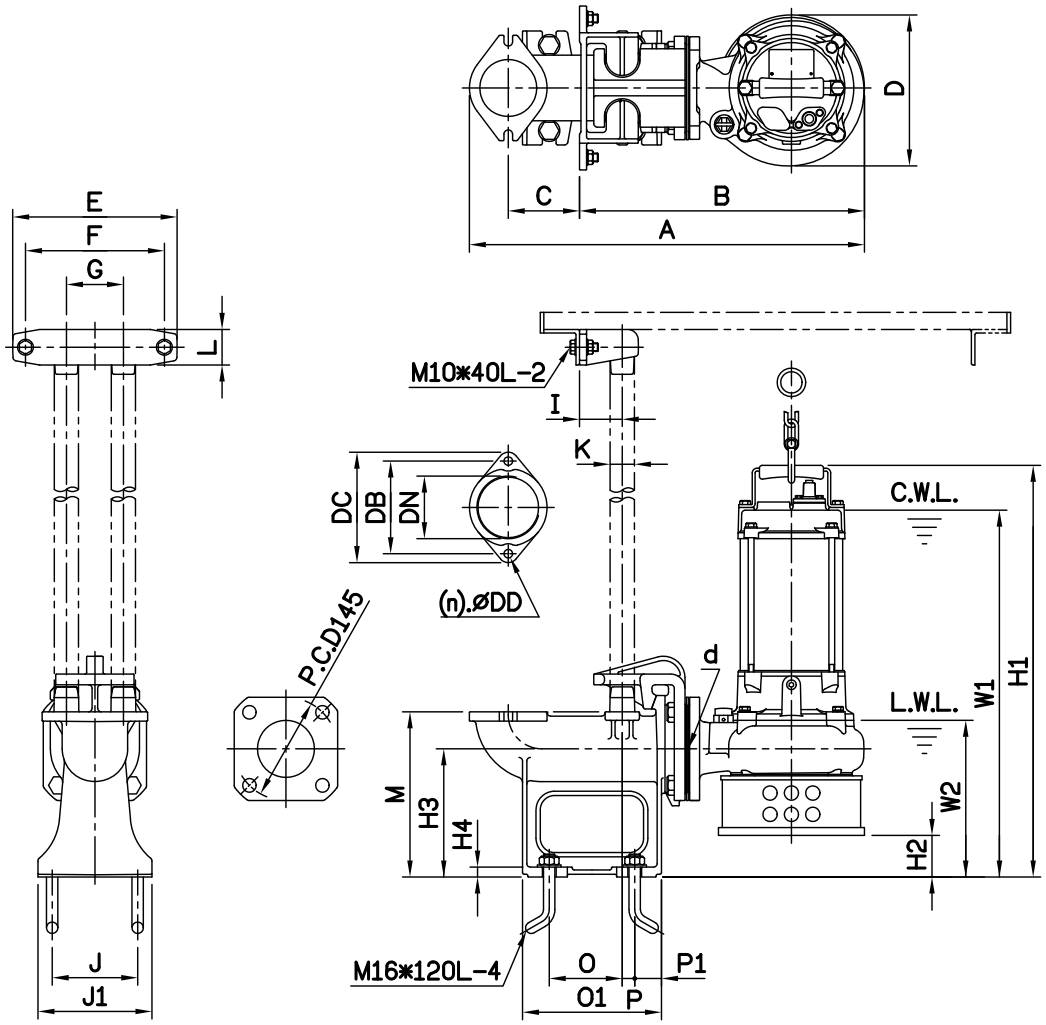
| Model | d | A | B | C | D | E | F | G | H | I | WT1 | Elbow (Flange)Set | DN | DB | DC | DD | (n)QTY | WT2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 80SA21.5 1Ø | 3 | 15 3/8 | 9 3/4 | 3 7/16 | 8 3/8 | 8 9/16 | 6 3/8 | 20 11/16 | 23 3/16 | 4 13/16 | 75 | ESB3-130K | 3 | 5 1/8 | 6 1/8 | 1/2 | 2 | 9 |
| 80SA21.5 3Ø | 3 | 15 3/8 | 9 3/4 | 3 7/16 | 8 3/8 | 8 9/16 | 6 3/8 | 18 | 20 1/2 | 4 13/16 | 66 | ESB3-130K | 3 | 5 1/8 | 6 1/8 | 1/2 | 2 | 9 |
| 80SA22.2 1Ø | 3 | 15 3/8 | 9 3/4 | 3 7/16 | 8 3/8 | 8 9/16 | 6 3/8 | 21 3/16 | 23 11/16 | 4 13/16 | 84 | ESB3-130K | 3 | 5 1/8 | 6 1/8 | 1/2 | 2 | 9 |
| 80SA22.2 3Ø | 3 | 15 3/8 | 9 3/4 | 3 7/16 | 8 3/8 | 8 9/16 | 6 3/8 | 18 | 20 1/2 | 4 13/16 | 73 | ESB3-130K | 3 | 5 1/8 | 6 1/8 | 1/2 | 2 | 9 |

C.W.L.:Continuous Running Water Level
L.W.L.:Lowest Running Water Level

WT1:Pump Weight(Without Cable)
WT2:Elbow Set Weight

## DIMENSIONS NO: T3SA0222030-00

## MODEL: 80SA21.5 / 22.2 50Hz 1Ø / 3Ø




Flange

| Female Thread | |
|---|---|
| PF | NPT |

Dimensions-mm

| Elbow (Flange)Set | DN | DB | DC | DD | (n)QTY |
|---|---|---|---|---|---|
| ESF3-130 | 80 | 130 | 155 | 12 | 2 |

Dimensions-inch

| Elbow (Flange)Set | DN | DB | DC | DD | (n)QTY |
|---|---|---|---|---|---|
| ESF3-130 | 3 | 5 1/8 | 6 1/8 | 1/2 | 2 |

Dimensions-mm Weight:kg

| Model | d | A | B | C | D | E | F | G | I | J | J1 | K | L | M | O | O1 | P | P1 | W1 | W2 | H1 | H2 | H3 | H4 | WT1 | GRS Set | WT2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 80SA21.5 1Ø | 80 | 555 | 400 | 100 | 212 | 230 | 195 | 80 | 60 | 120 | 160 | 1¼" | 50 | 232 | 103 | 195 | 18 | 38 | 584 | 220 | 647 | 59 | 180 | 14 | 34 | ST2-80 | 19 |
| 80SA21.5 3Ø | 80 | 555 | 400 | 100 | 212 | 230 | 195 | 80 | 60 | 120 | 160 | 1¼" | 50 | 232 | 103 | 195 | 18 | 38 | 515 | 220 | 578 | 59 | 180 | 14 | 30 | ST2-80 | 19 |
| 80SA22.2 1Ø | 80 | 555 | 400 | 100 | 212 | 230 | 195 | 80 | 60 | 120 | 160 | 1¼" | 50 | 232 | 103 | 195 | 18 | 38 | 596 | 220 | 659 | 59 | 180 | 14 | 38 | ST2-80 | 19 |
| 80SA22.2 3Ø | 80 | 555 | 400 | 100 | 212 | 230 | 195 | 80 | 60 | 120 | 160 | 1¼" | 50 | 232 | 103 | 195 | 18 | 38 | 515 | 220 | 578 | 59 | 180 | 14 | 33 | ST2-80 | 19 |

Dimensions-inch Weight:lb

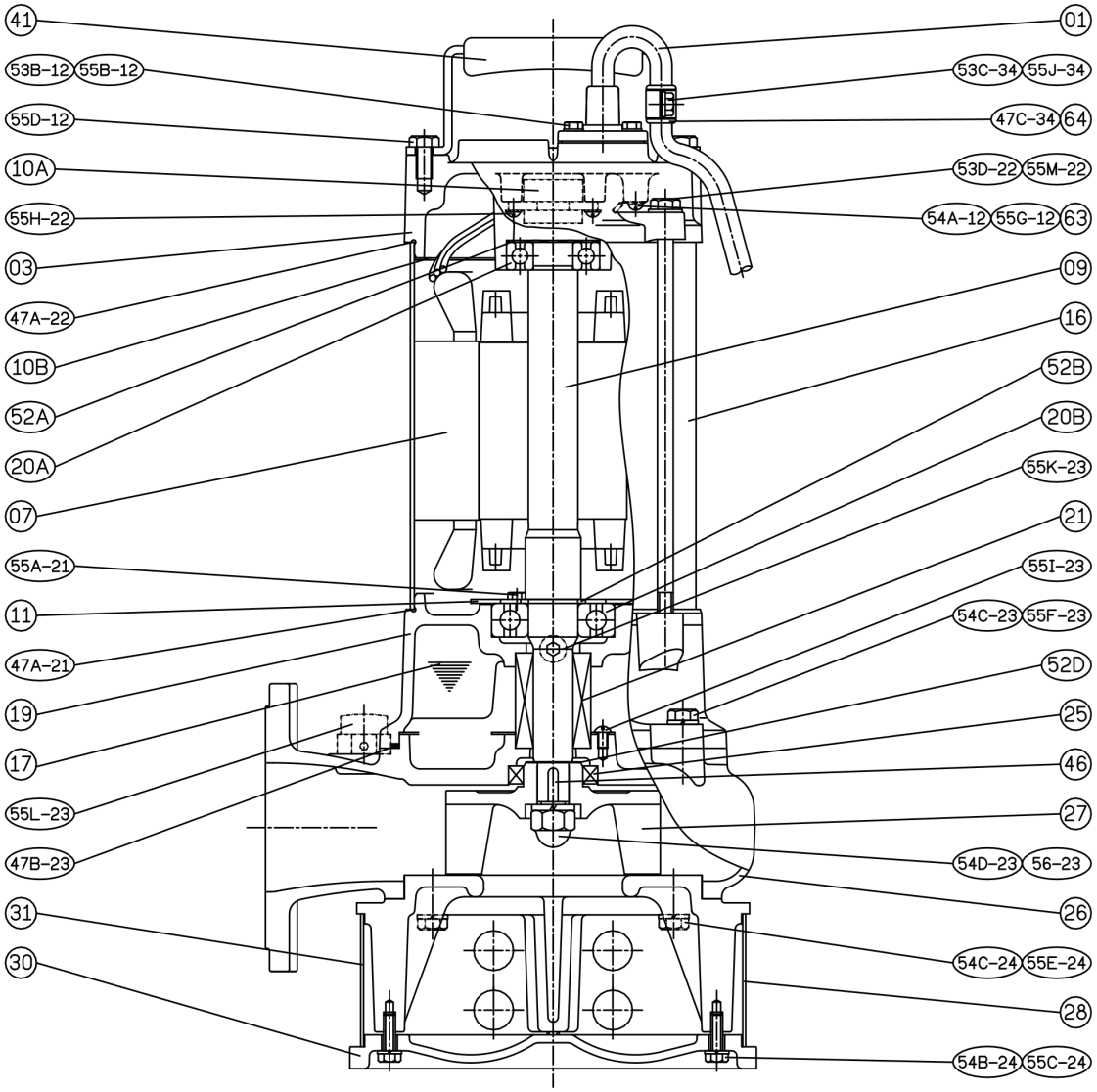
| Model | d | A | B | C | D | E | F | G | I | J | J1 | K | L | M | O | O1 | P | P1 | W1 | W2 | H1 | H2 | H3 | H4 | WT1 | GRS Set | WT2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 80SA21.5 1Ø | 3 | 21 7/8 | 15 3/4 | 3 15/16 | 8 3/8 | 9 1/16 | 7 11/16 | 3 1/8 | 2 3/8 | 4 3/4 | 6 5/16 | 1 1/4 | 2 | 9 1/8 | 4 1/16 | 7 11/16 | 11/16 | 1 1/2 | 23 | 8 11/16 | 25 1/2 | 2 5/16 | 7 1/16 | 9/16 | 75 | ST2-80 | 42 |
| 80SA21.5 3Ø | 3 | 21 7/8 | 15 3/4 | 3 15/16 | 8 3/8 | 9 1/16 | 7 11/16 | 3 1/8 | 2 3/8 | 4 3/4 | 6 5/16 | 1 1/4 | 2 | 9 1/8 | 4 1/16 | 7 11/16 | 11/16 | 1 1/2 | 20 1/4 | 8 11/16 | 22 3/4 | 2 5/16 | 7 1/16 | 9/16 | 66 | ST2-80 | 42 |
| 80SA22.2 1Ø | 3 | 21 7/8 | 15 3/4 | 3 15/16 | 8 3/8 | 9 1/16 | 7 11/16 | 3 1/8 | 2 3/8 | 4 3/4 | 6 5/16 | 1 1/4 | 2 | 9 1/8 | 4 1/16 | 7 11/16 | 11/16 | 1 1/2 | 23 7/16 | 8 11/16 | 25 15/16 | 2 5/16 | 7 1/16 | 9/16 | 84 | ST2-80 | 42 |
| 80SA22.2 3Ø | 3 | 21 7/8 | 15 3/4 | 3 15/16 | 8 3/8 | 9 1/16 | 7 11/16 | 3 1/8 | 2 3/8 | 4 3/4 | 6 5/16 | 1 1/4 | 2 | 9 1/8 | 4 1/16 | 7 11/16 | 11/16 | 1 1/2 | 20 1/4 | 8 11/16 | 22 3/4 | 2 5/16 | 7 1/16 | 9/16 | 73 | ST2-80 | 42 |

C.W.L.:Continuous Running Water Level
L.W.L.:Lowest Running Water Level

WT1:Pump Weight(Without Cable)
WT2:GRS Set Weight

## SECTIONAL VIEWS NO: 03SA0222030-1

## MODEL: 80SA21.5 / 22.2 3Ø




| Número | Nombre de la pieza | Material | Cantidad |
|---|---|---|---|
| 01 | Cable | | 1 |
| 03 | Cubierta Superior | SCS14 | 1 |
| 07 | Estator | | 1 |
| 09 | Extremo del Eje | SUS316 | 1 |
| 10A | Protector Auto-corte | | 1 |
| 10B | Placa Protectora | | 1 |
| 11 | Fijador de Rodamiento | SPCC | 1 |
| 16 | Bastidor del Motor | SUS316 | 1 |
| 17 | Lubricante | | |
| 19 | Soporte del Rodamiento | SCS14 | 1 |
| 20A | Rodamiento | | 1 |
| 20B | Rodamiento | | 1 |
| 21 | Sello Mecánico | CA/CE & SiC/SiC | 1 |
| 23 | Soporte Sello Mecánico | SCS14 | 1 |

| Número | Nombre de la pieza | Material | Cantidad |
|---|---|---|---|
| 25 | Sello de Aceite | VITON | 1 |
| 26 | Carcasa | SCS14 | 1 |
| 27 | Impulsor | SCS14 | 1 |
| 28 | Cubierta Carcasa | SCS14 | 1 |
| 30 | Base | SCS14 | 1 |
| 31 | Colador | SUS316 | 1 |
| 41 | Asa | SUS304 | 1 |
| 46 | Llave del Impulsor | SUS304 | 1 |
| 47 | Kit de Empaques | | |
| | | | |
| | | | |
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