**F20N**

### Ordering method

**F20N - 20**

<table>
<thead>
<tr>
<th>Model</th>
<th>Lead Migration</th>
<th>Grease Type</th>
<th>Stroke (mm)</th>
<th>Ball Screw</th>
<th>Stroke Length (mm pitch)</th>
<th>Cable Length</th>
<th>Positioner</th>
<th>Driver</th>
<th>Power Capacity</th>
<th>I/O Selection</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Linear Motor</td>
<td>100 (100mm pitch)</td>
<td>1000</td>
<td>339</td>
<td>20</td>
<td>SR1-X</td>
<td>20</td>
<td>20</td>
<td>RBR1</td>
</tr>
</tbody>
</table>

**Specifications**

- **AC Servo Motor Output (W):** 400
- **Repeatability (mm):** +/-0.04
- **Deceleration Mechanism:** Ball Screw 920
- **Ball Screw Lead (mm):** 10
- **Maximum Speed (mm/sec): 20**
- **Maximum Payload (kg):** 10
- **Rated Thrust (N):** 80
- **Maximum Dimension of Cross Section of Main Unit (mm):** 420 x 250 x 150
- **Stroke (mm):** 1550 to 2050
- **Overall Length (mm):** 1570 to 2070
- **Overall Width (mm):** 1196 to 1290
- **Overall Height (mm):** 2240 to 2340
- **Cross Section (D-D):** 10H7

**Note:**
1. Positioning repeatability is in one direction.
2. A regenerative unit is needed if using the SR1-X, TS-X at maximum speeds exceeding 1000mm/sec. If using the RDV-X, then the regeneration unit RBR1 is required regardless of the installation conditions.
3. Position detectors/resolvers are common to incremental and absolute specifications. If the controller has a backup function then it will be absolute specifications.

**Allowable Overhang**

Horizontal installation (140mm)

- **A**
- **B**
- **C**

**Note:**
- Distance from center of slider top to center of gravity of object being carried at a guide service life of 10,000 km.

**Static Loading Moment**

- **Controller:** SR1-X
- **Operation Method:**
  - SR1-X
  - TSX220
  - RDV-X220
- **Driver Power Capacity:** 200 to 600W
- **Battery:** CE marking

**Controller Specification**

- **Controller:** SR1-X
- **I/O Selection:**
  - SR1-X
  - TSX220
  - RDV-X220
- **Power Supply Voltage:** 200V/400 to 600W

**Note:**
1. Stop positions are determined by the mechanical stoppers at both ends.
2. The shaded position indicates the user cable extraction port.
3. When installing the robot, do not use washers inside the robot body.
4. The origin is set on the left (L) side at shipping.