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|---|--|----------|--|----------|--|--|--|--------------|--|
| UNLESS SPECIFIED OTHERWISE: All dimensions are in inches. Standard Tolerances are as follows: XXX ±.015 ANGLES ±.1° XX ±.010 FILLETS AND X ±.020 CORNERS AND Remove All Burrs and Sharp Edges | | MATERIAL | | | | TITLE Single Rail Positioning Stage Model #: DRS-048-11-104-EX | | | |
| FINISH | | DRAWN | | APPROVED | | DATE | | DWG# | |
| | | OOG | | MPW | | 3-17-09 | | 41-0208 | |
| | | | | | | | | REV A | |
| | | | | | | | | SHEET 1 of 2 | |

| DUAL RAIL POSITIONING STAGE SPECIFICATIONS | | |
|---|---------------------|-------------------|
| Motor P/N | BLDC-3A-NC-WD7S | |
| Stroke | 48 in | 1219.2 mm |
| Encoder Resolution | 1 micron | |
| Bearing Type | Recirculating Ball | |
| Moving Mass | 35.4 lbs | 16 kg |
| Total Mass | 159.4 lbs | 72.3 kg |
| Resistance @ 20C | 12.6 ohms | |
| Inductance @ 20C | 18.3 mH | |
| Electrical Time Constant | 1.5 msec | |
| Motor Constant | 4.47 lbs/SQRT(Watt) | 19.9 N/SQRT(Watt) |
| Force Constant | 15.6 lbs/Amp | 69.6 N/Amp |
| Back EMF | 2.04 V/ips | 80.3 V/m/sec |
| Force @ 100% Duty | 104 lbs | 462 N |
| Power @ 100% Duty | 540 watts | |
| Current @ 100% Duty | 6.6 amps | |
| Force @ 10% Duty | 396 lbs | 1761 N |
| Power @ 10% Duty | 10800 watts | |
| Current @ 10% Duty | 29.7 amps | |
| Table Length | 21.6 in | 539.8 mm |
| Stage Width | 16.3 in | 414 mm |
| Stage Height | 4.1 in | 104 mm |