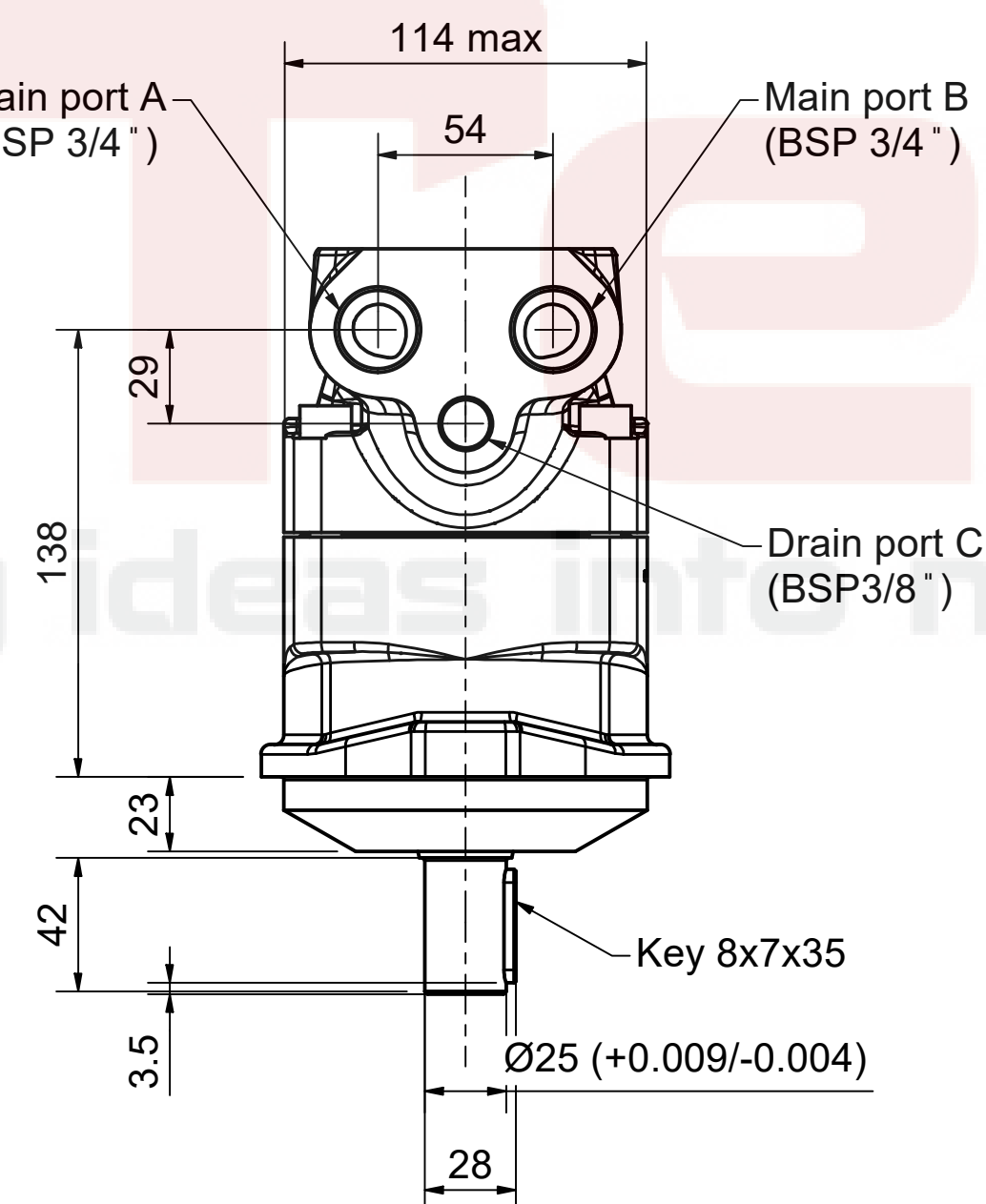


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F11-019-MB-CV-K-000-0000-00

F11-019



Pump & Motor Division Europe

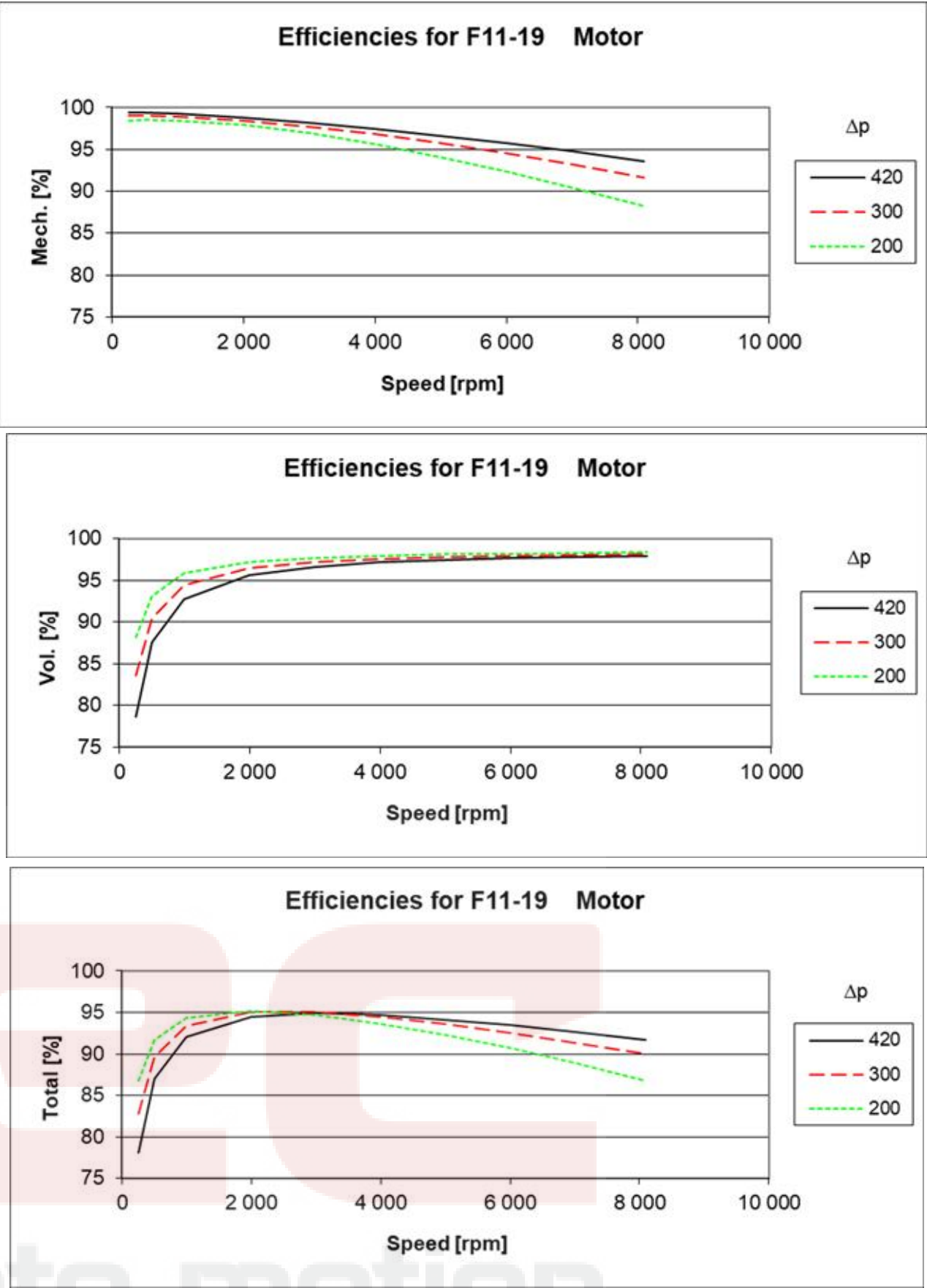


F11 Motor



F12 Motor

| | | |
|--------------|--------------|--------------|
| F11-19 | Motor | |
| Displacement | 19 cc/rev | |
| Max speed | 8900 rpm | Intermittent |
| Max speed | 8100 rpm | Continuously |
| Max pressure | 420 bar | Intermittent |
| Max pressure | 350 bar | Continuously |
| Max Torque | 125.9 Nm | |
| Torque | 0.302 Nm/bar | |
| Max Flow | 157.2 Lpm | |
| Max Power | 98.7 kW | |



| Rpm | 250 | | | 500 | | | 1000 | | | 2000 | | | 3000 | | | 4000 | | | 5000 | | | 6000 | | | 7000 | | | 8100 | | |
|-----|-------|-------|-----|-------|-------|-----|-------|-------|------|-------|-------|------|-------|-------|------|-------|-------|------|-------|-------|------|-------|-------|------|-------|-------|------|-------|-------|------|
| Bar | l/min | Nm | kW | l/min | Nm | kW | l/min | Nm | kW | l/min | Nm | kW | l/min | Nm | kW | l/min | Nm | kW | l/min | Nm | kW | l/min | Nm | kW | l/min | Nm | kW | l/min | Nm | kW |
| 50 | 5.0 | 14.0 | 0.4 | 9.8 | 14.1 | 0.7 | 19.4 | 14.1 | 1.5 | 38.6 | 14.0 | 2.9 | 57.9 | 13.5 | 4.2 | 77.1 | 12.8 | 5.3 | 96.4 | 12.0 | 6.2 | 115.6 | 11.0 | 6.8 | 134.9 | 10.0 | 7.2 | 156.1 | 8.7 | 7.3 |
| 100 | 5.1 | 29.1 | 0.7 | 9.9 | 29.2 | 1.5 | 19.5 | 29.2 | 3.0 | 38.8 | 29.0 | 6.0 | 58.0 | 28.5 | 8.8 | 77.3 | 27.8 | 11.5 | 96.5 | 26.9 | 13.9 | 115.8 | 25.9 | 16.1 | 135.0 | 24.8 | 18.0 | 156.2 | 23.5 | 19.7 |
| 150 | 5.2 | 44.2 | 1.1 | 10.1 | 44.3 | 2.2 | 19.7 | 44.3 | 4.5 | 38.9 | 44.0 | 9.0 | 58.2 | 43.5 | 13.4 | 77.4 | 42.7 | 17.6 | 96.7 | 41.8 | 21.6 | 115.9 | 40.8 | 25.3 | 135.2 | 39.7 | 28.7 | 156.4 | 38.4 | 32.1 |
| 200 | 5.4 | 59.4 | 1.4 | 10.2 | 59.4 | 2.9 | 19.8 | 59.4 | 6.0 | 39.1 | 59.0 | 12.1 | 58.3 | 58.4 | 18.0 | 77.6 | 57.7 | 23.7 | 96.8 | 56.7 | 29.2 | 116.1 | 55.7 | 34.5 | 135.3 | 54.6 | 39.4 | 156.5 | 53.2 | 44.5 |
| 250 | 5.5 | 74.5 | 1.7 | 10.4 | 74.5 | 3.6 | 20.0 | 74.4 | 7.4 | 39.2 | 74.1 | 15.1 | 58.5 | 73.4 | 22.5 | 77.7 | 72.6 | 29.8 | 97.0 | 71.7 | 36.9 | 116.2 | 70.6 | 43.6 | 135.5 | 69.4 | 50.1 | 156.7 | 68.1 | 56.9 |
| 300 | 5.7 | 89.6 | 2.0 | 10.5 | 89.6 | 4.3 | 20.1 | 89.5 | 8.9 | 39.4 | 89.1 | 18.1 | 58.6 | 88.4 | 27.1 | 77.9 | 87.6 | 35.9 | 97.1 | 86.6 | 44.5 | 116.4 | 85.5 | 52.8 | 135.6 | 84.3 | 60.8 | 156.8 | 82.9 | 69.2 |
| 350 | 5.8 | 104.7 | 2.2 | 10.6 | 104.7 | 4.9 | 20.3 | 104.6 | 10.3 | 39.5 | 104.1 | 21.0 | 58.8 | 103.4 | 31.6 | 78.0 | 102.5 | 41.9 | 97.3 | 101.5 | 52.0 | 116.5 | 100.4 | 61.9 | 135.8 | 99.2 | 71.4 | 157.0 | 97.8 | 81.5 |
| 420 | 6.0 | 125.9 | 2.6 | 10.9 | 125.9 | 5.8 | 20.5 | 125.7 | 12.2 | 39.7 | 125.1 | 25.1 | 59.0 | 124.4 | 37.9 | 78.2 | 123.4 | 50.4 | 97.5 | 122.4 | 62.6 | 116.7 | 121.2 | 74.6 | 136.0 | 120.0 | 86.3 | 157.2 | 118.6 | 98.7 |

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F11-019



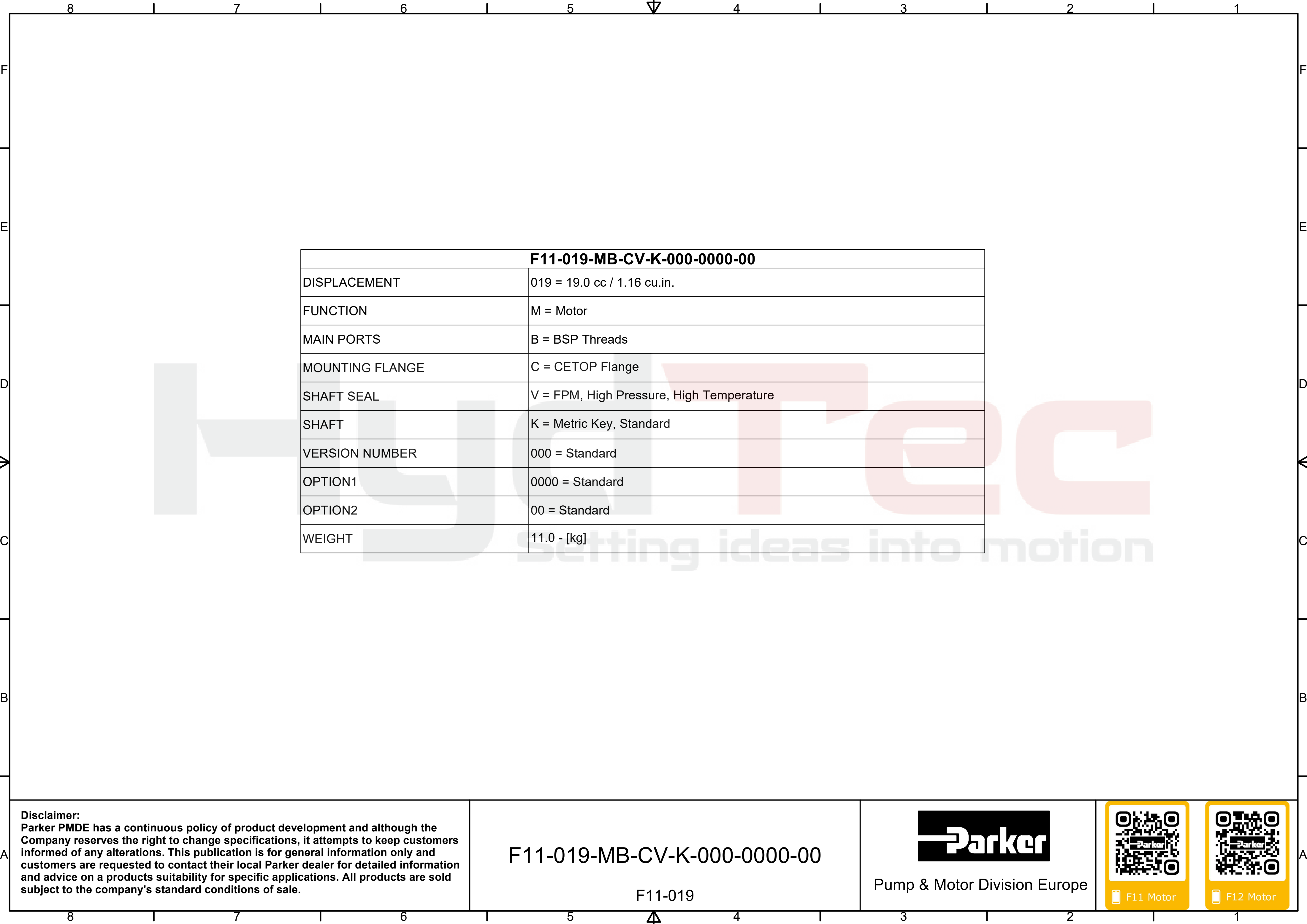
Pump & Motor Division Europe



F11 Motor



F12 Motor



| F11-019-MB-CV-K-000-0000-00 | |
|-----------------------------|--|
| DISPLACEMENT | 019 = 19.0 cc / 1.16 cu.in. |
| FUNCTION | M = Motor |
| MAIN PORTS | B = BSP Threads |
| MOUNTING FLANGE | C = CETOP Flange |
| SHAFT SEAL | V = FPM, High Pressure, High Temperature |
| SHAFT | K = Metric Key, Standard |
| VERSION NUMBER | 000 = Standard |
| OPTION1 | 0000 = Standard |
| OPTION2 | 00 = Standard |
| WEIGHT | 11.0 - [kg] |

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F11 Motor



F12 Motor