



Series S8

CySpeed

2.2.11

Milling spindle CS-15-135-A

| Drive | | | |
|--------------------------------|---------------------------------------|----------|------------|
| Power: | 15 kW (S1) | | 20 kW (S6) |
| Nominal speed: | 6.000 r.p.m. | | |
| Torque max.: | 24 Nm (S1) | | 31 Nm (S6) |
| Speed max.: | 24.000 r.p.m. | | |
| Motor type: | asynchronous/6 poles | | |
| Power connection: | 400 V/ 45 A (S1) | | |
| Tool system: | HSK-A63 | | |
| Clamping system: | hydraulically operated | | |
| Clamping force: | 12 kN/50 bar | | |
| Clamping monitoring: | CyCon K 11 | | |
| Release pressure: | 50-100 bar | | |
| Tool cleaning: | Air, 3-4 bar | | |
| Spindle bearing: | << >> Ø 65 Hybrid | | |
| Bearing rigidity: | axial 170 N/µm, radial 450 N/µm | | |
| Bearing lubrication: | Grease | | |
| Sealing: | with sealing air and labyrinth | | |
| Encoder signal: | 1 Vpp/256 teeth | | |
| Spindle cooling: | liquid cooling (Antifrogen N/Tyfocon) | | |
| Power dissipation: | 1 kW | | |
| Cooling volume flow approx.: | 4 l/min (3-8 bar) | | |
| Metal removal rate: | Milling | Drilling | Threading |
| AlMgSi1 | 400cm ³ /min | - | M20 |
| Tool cooling | | | |
| External coolant supply (ECS): | 6 Spray nozzles | | |
| Internal coolant supply (ICS): | optional (through spindle shaft) | | |
| max. Pressure/Filter mesh: | 50 bar (15 l/min)/40 µm | | |
| MQL external: | optional | | |
| MQL internal: | optional | | |

