**406 Series Specifications**

**Purpose:**

Hydraulic motors convert the working fluid energy into the shaft rotation mechanical energy.

Hydraulic motors are intended for operation in stationary and mobile installations in set with hydrostatic transmissions (HST).

**Working displacements:**71, 90, 110, 125 ccm/rev

**Technical characteristics:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Size | 406.0.71 | 406.0.90 | 406.0.110 | 406.0.125 |
| Working displacement Vg, ccm/rev | 71 | 90 | 110 | 125 |
| Shaft rotation frequency n, rpm |  |  |  |  |
| - nominal nnom | 2000 | 2000 | 2000 | 2000 |
| - max nmax, at input pressure = 0,08 MPa | 3050 | 3050 | 3000 | 3000 |
| - peak npeak, at input pressure = 0,2 MPa | 3300 | 3300 | 3200 | 3200 |
| Flow Q, l/min |  |  |  |  |
| - nominal Qnom | 149.47 | 189.47 | 173.68 | 197.37 |
| - max Qmax | 227.95 | 288.95 | 347.37 | 394.74 |
| - peak Qpeak | 246.63 | 312.63 | 370.53 | 421.05 |
| Boost pressure (difference) ∆P, MPa |  |  |  |  |
| - nominal ∆Pnom | 25 | 25 | 25 | 25 |
| - max working ∆Pmax | 40 | 40 | 40 | 40 |
| - peak ∆Ppeak | 45 | 45 | 45 | 45 |
| Purge relief valve adjustment pressure Pn,MPa | 2.3 | 2.3 | 2.3 | 2.3 |
| Drain pressure Pdr, МPa |  |  |  |  |
| - max working | 0.25 | 0.25 | 0.25 | 0.25 |
| - max short-term (t<5 min) | 0.5 | 0.5 | 0.5 | 0.5 |
| Effective power N, kW |  |  |  |  |
| - nominal Nnom (at nnom, Pnom) | 56.05 | 71.05 | 65.13 | 74.01 |
| - max Nmax (at nmax, Pmax) | 136.77 | 173.37 | 208.42 | 236.84 |
| - peak Npeak (at npeak, Ppeak) | 166.47 | 211.02 | 250.10 | 284.21 |
| Torque T, Nm |  |  |  |  |
| - nominal Тnom (at Pnom) | 254.25 | 322.29 | 393.91 | 447.62 |
| - max Tmax (at Pmax) | 406.80 | 515.66 | 630.25 | 716.20 |
| - peak Tpeak (at Ppeak) | 457.65 | 580.12 | 709.04 | 805.72 |
| Weight, kg | 40 | 40 | 48 | 48 |

**Design:**

- fixed dispalcement axial piston swashplate hydraulic motors

- mounting dimensions as per DIN / ISO / SAE standards

**Hydraulic motors have mounted-in the end cap:**

- loop flushing valve

- purge relief valve

**Options available on request:**

- check-safety valves

- shaft rotation frequency sensor

**Analogues:**

AA2FM (Bosch Rexroth)

90M, SMF 22/23/24 (Sauer Danfoss)

MFH(S) (Hydrosila)