**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.

**Working displacement:**55, 107, 160 ccm/rev

**Technical characteristics:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Size | | 55 | 107 | 160 |
| Working displacement  - max Vg max - min Vg min | ccm | 55  0 | 107  0 | 160  0 |
| Max rotation speed nmax at:  - Vg max - Vg min | rpm | 4450  7000 | 3550  5600 | 3100  4900 |
| Consumed flow rate (at nmax), Qmax | l/min | 275 | 428 | 522 |
| Power, N  at Vg maxand ∆p=450 bar  at Vg maxand ∆p=400 bar  at Vg maxand ∆p=350 bar  at Vg maxand ∆p=250 bar | kW | 184  164  143  102 | 286  255  223  159 |  |
| Torque, T  at Vg maxand ∆p=450 bar  at Vg maxand ∆p=400 bar at Vg maxand ∆p=350 bar at Vg maxand ∆p=250 bar | Nm | 351  312  273  195 | 684  608  532  380 |  |
| Weight, m | kg | 24 | 40 |  |

**Special features:**

- variable displacement axial pistoon bent-axis hydraulic motors

- reinforced bearing unit

- bimetal steel cylinder block

- increased lifetime at high pressure operation conditions

**Types of regulators:**

- proportional

- constant pressure regulator

- pressure regulator on hyperbole

- functioning only from outer force

**Types of control:**

- hydraulic direct

- hydraulic proportional

- mechanical

- electrical discrete

- electrical proportional

**Analogues:**

A6V, A6VM, A6VE (Bosch Rexroth)

51D (Sauer Danfoss)

V14 (Parker Hannifin)

H2V (Sam Hydraulics)