**Purpose:**

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

Hydraulic motors are intended for operation in open and close loops of stationary and mobile installations.

**Working displacement:** 28, 55, 56, 80, 107, 112, 160, 250 ccm/rev

**Technical characteristics:**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Size | | 28 | 55 | 56 | 80 | 107 | 112 | 160 |
| Working displacement - max Vg max - min Vg min | ccm | 28 0 | 55 0 | 56  16 | 80 0 | 107 0 | 112 31 | 160 0 |
| Max rotation speed, nmax at: - Vg max - Vg min | rpm | 4750 6250 | 3750 5000 | 3750 5000 | 3350 4500 | 3000 4000 | 3000 4000 | 2650 3500 |
| Consumed flow rate (at nmax),qv max | l/min | 175 | 275 | 280 | 360 | 428 | 448 | 560 |
| Power, N  at Vg max & ∆p=450 bar  at Vg max & ∆p=400 bar  at Vg max & ∆p=350 bar  at Vg max & ∆p=250 bar | kW | 117  104  91  65 | 184  164  143  102 | 187  167  146  104 | 241  214  187  134 | 286  255  223  159 | 300  266  233  167 | 375  333  291  208 |
| Torque, T  at Vg max & ∆p=450 bar  at Vg max & ∆p=400 bar  at Vg max & ∆p=350 bar  at Vg max & ∆p=250 bar | Nm | 179  159  139  99 | 351  312  273  195 | 358  318  278  199 | 511  454  397  284 | 684  608  532  380 | 715 636  556  397 | 1022  909  795  568 |
| Weight, m | kg | 15,5 | 24 | 22 | 38 | 40 | 38 | 55 |

**Special features:**

- variable displacement axial piston bent-axis hydraulic motors

- reinforced bearing unit

- bimetal steel block

- increased lifetime at high pressure operation

**Types of regulators:**

- proportional

- constant pressure regulator

- pressure regulator on hyperbole

- function only with outer force

**Types of control:**

- hydraulic direct

- hydraulic proportional

- mechanical

- electrical proportional

- electrical discrete

**Analogues:**

A6V, A6VM (Bosch Rexroth)

51D (Sauer Danfoss)

V12, V14 (Parker Hannifin)

H2V (Sam Hydraulics)

MBF (Hydrosila)