

# DC SERVO MOTORS

## RS

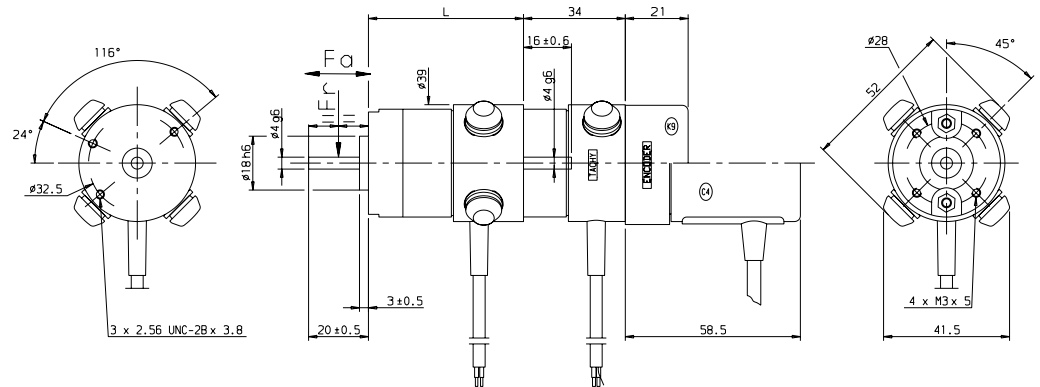
### 0.05 to 13N.m

Using high energy magnets, RS DC motors combined with RTS drives are particularly suitable for applications which require a very compact solution or a high dynamic level.



#### RS characteristics

Motor	Torque at low speed $M_0$ (N.m)	Permanent current at low speed $I_0$ (A)	Rated voltage U (V)	Rated speed N (rpm)	Rotor inertia J ( $\text{kgm}^2 \cdot 10^{-5}$ )
RS110M	0.05	1.5	20.7	3000	0.24
RS120G	0.092	2.3	21.2	3000	0.41
RS130E	0.13	2.7	23.7	3000	0.58
RS210L	0.11	2.5	24	3000	1.3
RS220F	0.225	4.1	25.4	3000	1.95
RS220K	0.232	2.8	38.6	3000	1.95
RS230C	0.31	5.6	24	3000	2.6
RS240B	0.39	6	27.6	3000	3.25
RS310N	0.28	2.6	49	3000	5.4
RS320H	0.54	4.5	49	3000	8.3
RS330E	0.78	5.9	51	3000	11
RS340C	0.98	6.9	53	3000	14
RS410R	0.48	3.6	60	3000	13.7
RS420J	0.93	6.2	60	3000	22.5
RS430F	1.3	8.1	43	2000	31
RS430H	1.36	6.6	78	3000	31
RS440G	1.74	7	90	3000	40
RS510L	1.9	7.9	82	2700	100
RS520G	3.1	10.9	92	2700	135
RS530E	4	13	97	2700	170
RS540C	5	15	104	2700	205
RS620G	8	22.3	100	2400	530
RS630F	10.8	25	100	2000	680
RS640E	13	28	105	2000	830



**HIGH PERFORMANCE CHARACTERISTICS**

**EXCELLENT LOW-SPEED FUNCTIONING**

**RARE EARTH MAGNETS**

**4-POLE DESIGN**

**HIGH COMPACTNESS**

**VERY LONG LIFETIME**

**TACHY, ENCODER, RESOLVER OPTIONS**

**BRAKE OPTION**

**PROTECTION IP40 (RS1 TO RS4), IP44 OPTION  
IP54 (RS5 AND RS6), IP55 OPTION**

**CLASS F INSULATION**

#### RS1 dimensions

Motor	L	Weight	Fr* (daN)	Fa* (daN)
RS110	52.1	0.27	6	3
RS120	68.1	0.36	6	3
RS130	84.1	0.45	6	3

\*Fr and Fa not cumulative  
Dimensions in mm  
Weight in kg

