

## RS

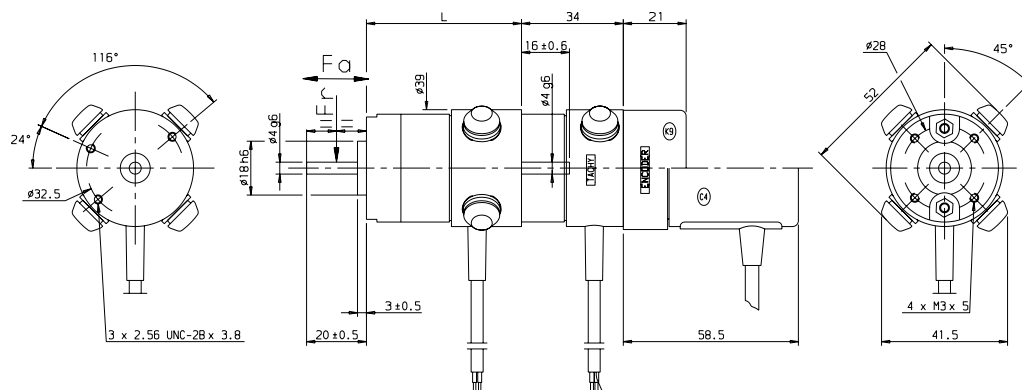
0.05 to 13N.m

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**

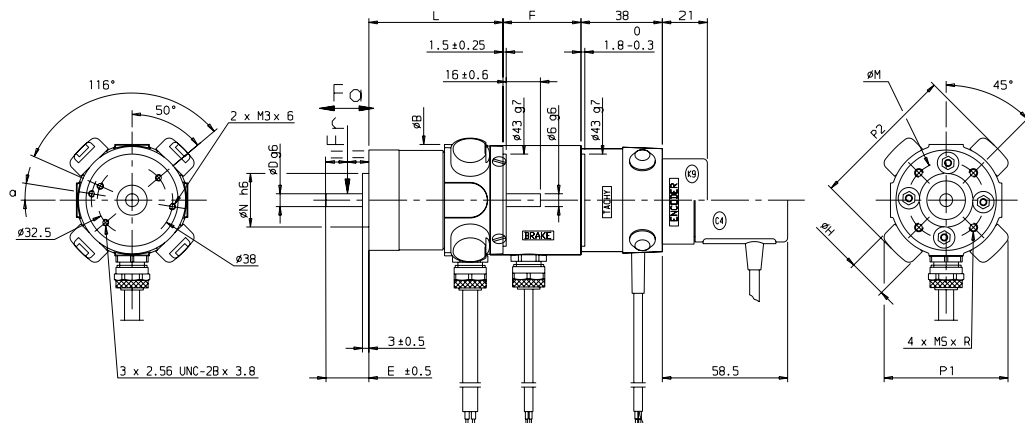
**CLASS F INSULATION**

### 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

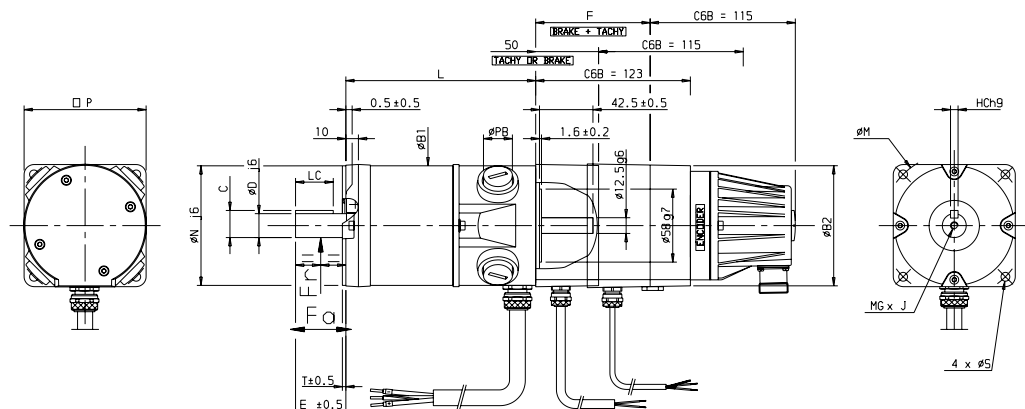
# DC SERVO MOTORS



## RS2, RS3 and RS4 with brake, tachy and encoder dimensions

Motor	$\alpha$	N	D	E	B	L	F	P1	P2	H	MSxR	M	Weight	Fr* (daN)	Fa* (daN)
RS210	9°	25	6	20	52	63	36.4	58	68	18.5	M4x6	36	0.54	18	10
RS220	9°	25	6	20	52	79	36.4	58	68	18.5	M4x6	36	0.7	18	10
RS230	9°	25	6	20	52	95	36.4	58	68	18.5	M4x6	36	0.86	18	10
RS240	9°	25	6	20	52	111	36.4	58	68	18.5	M4x6	36	1	18	10
RS310	-	32	9	25	68	80.5	41	69	83	18.5	M5x8	45	0.9	28	15
RS320	-	32	9	25	68	100.5	41	69	83	18.5	M5x8	45	1.3	28	15
RS330	-	32	9	25	68	120.5	41	69	83	18.5	M5x8	45	1.6	28	15
RS340	-	32	9	25	68	140.5	41	69	83	18.5	M5x8	45	2	28	15
RS410	-	50	11	32	83	95.5	40	82	98	22	M5x8	65	1.2	40	20
RS420	-	50	11	32	83	115.5	40	82	98	22	M5x8	65	1.8	40	20
RS430	-	50	11	32	83	135.5	40	82	98	22	M5x8	65	2.4	40	20
RS440	-	50	11	32	83	155.5	40	82	98	22	M5x8	65	3	40	20

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



## RS5 and RS6 with brake, tachy and encoder dimensions

Motor	P	N	C	D	LC	E	T	B1	PB	L	F	B2	S	M	MGxJ	HC	Weight	Fr* (daN)	Fa* (daN)
RS510	97	95	21.5	19	30	40	3	96	25	151	91	96	7	115	M6x18	6	5.1	70	23
RS520	97	95	21.5	19	30	40	3	96	25	180	91	96	7	115	M6x18	6	6.3	70	23
RS530	97	95	21.5	19	30	40	3	96	25	209	91	96	7	115	M6x18	6	7.5	70	23
RS540	97	95	21.5	19	30	40	3	96	25	238	91	96	7	115	M6x18	6	8.7	70	23
RS620	120	110	27	24	40	50	3.5	117	30	246	93	117	10	130	M8x20	8	11.5	80	26
RS630	120	110	27	24	40	50	3.5	117	30	284	93	117	10	130	M8x20	8	14	80	26
RS640	120	110	27	24	40	50	3.5	117	30	321	93	117	10	130	M8x20	8	16.3	80	26

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