

Gearbox Type:

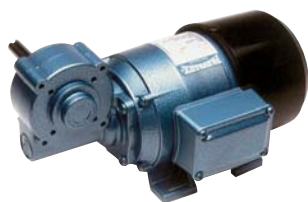
M

Speed Range: 12 – 680 r.p.m.

Single Reduction Worm Gear Units**1 or 3 Phase Induction Motors – Constant Speed**

Enclosures: Standard – Ventilated Internal Fan Cooled (IP 20)

Alternative – Totally Enclosed (IP 50) with Terminal Box or T.E.F.C. (IP 54)

**SD 28 M****SD 8 M (T.E.F.C.)****SD 38 M****SD 13 M with brake****■ Voltage, Construction, Connections, Motor Performance Specifications**and **Optional Extras** see pages 6, 8 and 10 for full details.

Hollow shaft available on request. Maximum internal diameter 8mm.

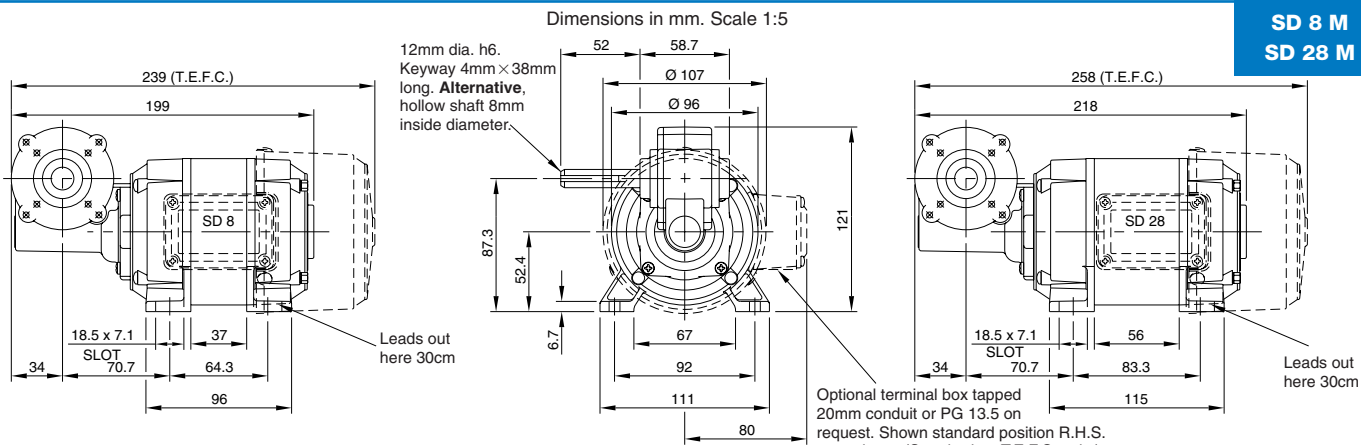
(1 Nm = 8.85 lbs. ins.) (1 Nm = 10.2 cmkp)

Gearbox Specification Motor Speed 1400 r.p.m.		SD 8 M – SD 38 M 1 or 3 Phase		SD 28 M – SD 29 M 1 or 3 Phase		SD 13 M – SD 18 M 1 Phase		SD 13 M – SD 18 M 3 Phase		SD 18 M (Capacitor start induction run) 1 Phase	
		Motor Rating 35 watts		Motor Rating 55 watts		Motor Rating 100 watts		Motor Rating 125 watts		Motor Rating 95 watts	
FINAL R.P.M.	RATIO	OUTPUT TORQUE (Nm)									
		COMPOSITE	BRONZE	COMPOSITE	BRONZE	COMPOSITE	BRONZE	COMPOSITE	BRONZE	COMPOSITE	BRONZE
20	72:1	5.1	6.6	5.1	7.3	-	-	-	-	-	-
21	66:1	5.1	6.5	5.1	7.3	-	-	-	-	-	-
23	60:1	5.1	6.3	5.9	7.9	-	-	-	-	-	-
26	54:1	4.9	-	5.9	7.9	-	-	-	-	-	-
29	48:1	4.6	-	5.9	7.9	-	-	-	-	-	7.9
32	44:1	4.4	-	5.9	7.3	5.9	7.9	5.9	7.9	5.9	7.9
35	40:1	4	-	6.3	-	7.9	11.4	7.9	11.8	7.9	10.9
39	36:1	3.8	-	6	-	7.9	10.9	7.9	11.8	7.9	10.3
42	33:1	3.7	-	5.8	-	7.9	10.6	7.9	11.8	7.9	10
47	30:1	3.4	-	5.3	-	7.9	9.7	7.9	11.8	7.9	9.2
52	27:1	3.2	-	5	-	7.9	9.1	7.9	11.4	7.9	8.7
56	25:1	3	-	4.7	-	7.9	8.6	7.9	10.7	7.9	8.2
62	22 1/2:1	2.8	-	4.4	-	7.9	8	7.9	10	7.6	-
68	20 1/2:1	2.7	-	4.2	-	7.7	-	7.9	9.6	7.3	-
75	18 1/2:1	2.5	-	3.9	-	7.1	-	7.9	8.9	6.8	-
85	16 1/2:1	2.3	-	5.2	-	6.6	-	7.9	8.2	6.2	-
90	15 1/2:1	2.2	-	3.4	-	6.3	-	7.9	-	5.9	-
97	14 1/2:1	2.1	-	3.3	-	6	-	7.5	-	5.7	-
105	13 1/3:1	2	-	3.1	-	5.7	-	7	-	5.4	-
113	12 1/3:1	1.9	-	3	-	5.4	-	6.8	-	5.2	-
123	11 1/3:1	1.8	-	2.8	-	5.1	-	6.4	-	4.9	-
135	10 1/3:1	1.7	-	2.7	-	4.8	-	6	-	4.6	-
150	9 1/3:1	1.6	-	2.5	-	4.6	-	5.7	-	4.3	-
168	8 1/3:1	1.4	-	2.2	-	4	-	5	-	3.8	-
193	7 1/4:1	1.3	-	2.1	-	3.7	-	4.6	-	3.5	-
227	6 1/6:1	1.1	-	1.7	-	3.1	-	3.9	-	3	-
273	5 1/8:1	0.9	-	1.4	-	2.5	-	3.2	-	2.4	-
340	4 1/8:1	0.8	-	1.2	-	2.2	-	2.9	-	2.2	-

Gearbox Specification <i>Motor Speed 2800 r.p.m.</i>		SD 8 M – 38 M 1 or 3 Phase	SD 28 M – 29 M 1 Phase			SD 28 M – 29 M 3 Phase			SD 13 M – 18 M 1 Phase		SD 13 M – 18 M 3 Phase	
		<i>Motor Rating 60 watts</i>	<i>Motor Rating 100 watts</i>			<i>Motor Rating 120 watts</i>			<i>Motor Rating 150 watts</i>		<i>Motor Rating 190 watts</i>	
FINAL R.P.M.	RATIO	OUTPUT TORQUE (Nm)										
		COMPOSITE	COMPOSITE	BRONZE	COMPOSITE	BRONZE	COMPOSITE	BRONZE	COMPOSITE	BRONZE		
40	72:1	5.1	-	-	-	-	-	-	-	-	-	-
42	66:1	4.8	-	-	-	-	-	-	-	-	-	-
46	60:1	4.6	5.9	7.2	5.9	7.9	5.9	7.3	5.9	7.9		
52	54:1	4.2	5.9	6.8	5.9	7.9	5.9	7.3	5.9	7.9		
58	48:1	4	5.9	6.3	5.9	7.6	5.9	7.3	5.9	7.9		
64	44:1	3.8	5.9	-	5.9	7.1	5.9	7.9	5.9	7.9		
70	40:1	3.6	6	-	5.9	6.8	7.9	9	7.9	11.4		
78	36:1	3.3	5.5	-	5.9	6.2	7.9	8.3	7.9	10.5		
84	33:1	3.1	5.2	-	5.9	6	7.8	-	7.9	9.8		
93	30:1	2.9	4.8	-	5.8	-	7.3	-	7.9	9.2		
104	27:1	2.7	4.5	-	5.4	-	6.7	-	7.9	8.6		
112	25:1	2.6	4.3	-	5.2	-	6.5	-	7.9	8.2		
124	22 1/2:1	2.4	4	-	4.8	-	6	-	7.6	-		
136	20 1/2:1	2.3	3.8	-	4.6	-	5.7	-	7.3	-		
152	18 1/2:1	2.1	3.5	-	4.2	-	5.3	-	6.7	-		
170	16 1/2:1	2	3.3	-	4	-	5	-	6.3	-		
180	15 1/2:1	1.9	3.2	-	3.8	-	4.7	-	6	-		
194	14 1/2:1	1.8	3	-	3.6	-	4.5	-	5.7	-		
210	13 1/3:1	1.7	2.8	-	3.4	-	4.3	-	5.4	-		
226	12 1/3:1	1.7	2.8	-	3.4	-	4.3	-	5.3	-		
250	11 1/3:1	1.6	2.7	-	3.2	-	4	-	5.1	-		
270	10 1/3:1	1.4	2.3	-	2.8	-	3.5	-	4.4	-		
300	9 1/3:1	1.3	2.2	-	2.6	-	3.3	-	4.1	-		
338	8 1/3:1	1.2	2	-	2.4	-	3	-	3.8	-		
386	7 1/4:1	1.1	1.8	-	2.2	-	2.8	-	3.4	-		
456	6 1/6:1	0.9	1.5	-	1.8	-	2.3	-	2.8	-		
545	5 1/8:1	0.8	1.3	-	1.6	-	2	-	2.5	-		
680	4 1/8:1	0.7	1.2	-	1.4	-	1.8	-	2.2	-		

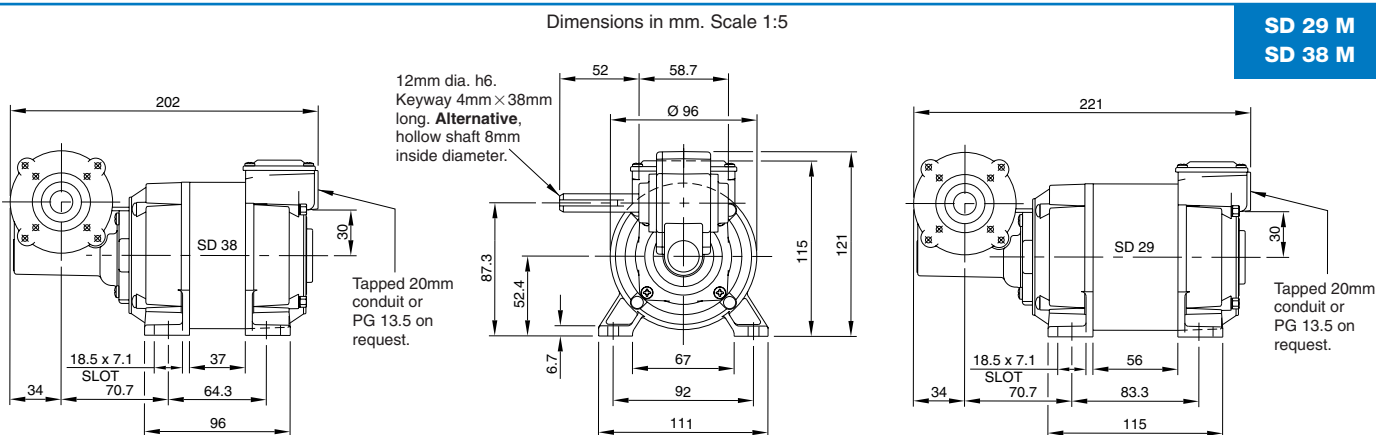
Gearbox Specification <i>Motor Speed 900 r.p.m.</i>		SD 8 M – 38 M 1 Phase3 Phase		SD 13 M – 18 M 1 Phase3 Phase			
		<i>Motor Rating 10 watts</i>	<i>Motor Rating 15 watts</i>	<i>Motor Rating 38 watts</i>	<i>Motor Rating 60 watts</i>		
FINAL R.P.M.	RATIO	OUTPUT TORQUE (Nm)					
		COMPOSITE	COMPOSITE	COMPOSITE	BRONZE	COMPOSITE	BRONZE
12	72:1	2.7	4	5.1	7.3	5.1	7.3
14	66:1	2.5	3.8	5.1	7.3	5.1	7.3
15	60:1	2.4	3.6	5.9	7.9	5.9	7.9
17	54:1	2.2	3.3	5.9	7.9	5.9	7.9
18	48:1	2.1	3.2	5.9	7.9	5.9	7.9
20	44:1	2	3	5.9	7.9	5.9	7.9
22	40:1	1.8	2.7	6.8	7.9	7.9	10.8
25	36:1	1.7	2.6	6.5	-	7.9	10.2
27	33:1	1.6	2.4	6.1	-	7.9	9.6
30	30:1	1.5	2.2	5.7	-	7.9	9
33	27:1	1.4	2.1	5.3	-	7.9	8.4
36	25:1	1.3	1.9	4.9	-	7.8	-
40	22 1/2:1	1.2	1.8	4.6	-	7.2	-
44	20 1/2:1	1.1	1.7	4.2	-	6.6	-
48	18 1/2:1	1	1.5	3.8	-	6	-
54	16 1/2:1	1	1.5	3.8	-	6	-
58	15 1/2:1	0.9	1.35	3.42	-	5.4	-
62	14 1/2:1	0.88	1.32	3.34	-	5.3	-
67	13 1/3:1	0.85	1.27	3.23	-	5.1	-
73	12 1/3:1	0.80	1.20	3.04	-	4.8	-
79	11 1/3:1	0.78	1.17	2.96	-	4.68	-
87	10 1/3:1	0.74	1.11	2.81	-	4.44	-
96	9 1/3:1	0.70	1	2.66	-	4.20	-
108	8 1/3:1	0.64	0.96	2.43	-	3.84	-
124	7 1/4:1	0.58	0.87	2.2	-	3.48	-
146	6 1/6:1	0.50	0.75	1.9	-	3	-
174	5 1/6:1	0.43	0.65	1.63	-	2.58	-
218	4 1/8:1	0.36	0.54	1.37	-	2.16	-

SD 8 M
SD 28 M



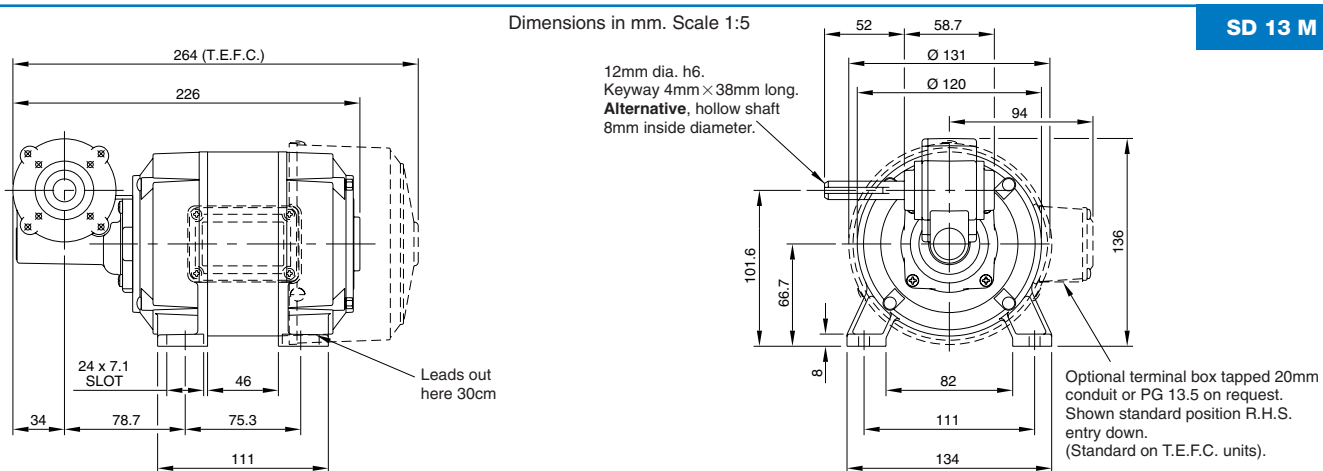
Optional shaft at motor speed (lead end only) see separate motor drawing for details (Page 9). Not applicable to T.E.F.C. units.

SD 29 M
SD 38 M



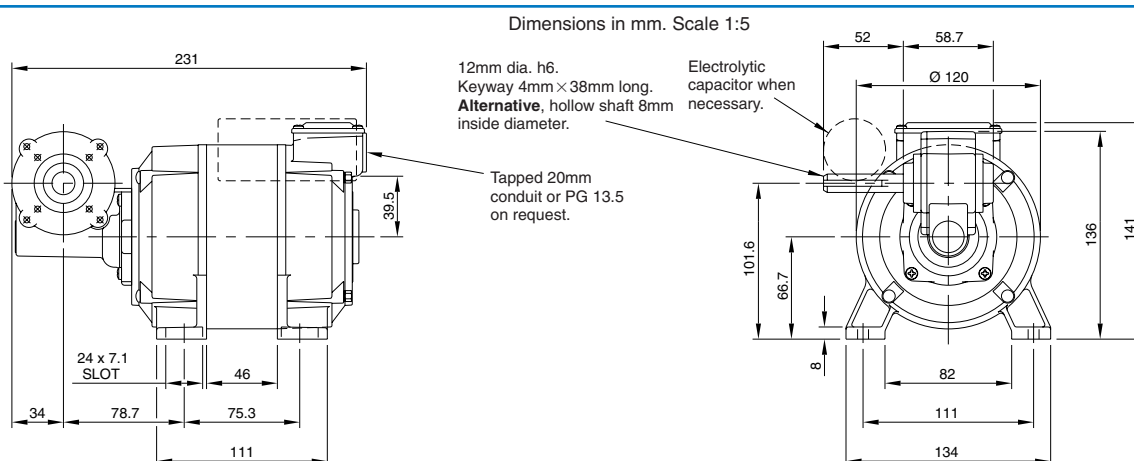
Optional shaft at motor speed (terminal box end only) see separate motor drawing for details (Page 9).

SD 13 M



Optional shaft at motor speed (lead end only) 10mm dia. x 33mm long. Not applicable to T.E.F.C. units.

SD 18 M



Optional shaft at motor speed (terminal box end only) 10mm dia. x 33mm long.