

Gearbox Type:

MM

Speed Range: 0.5 – 30 r.p.m.

Double Reduction Worm Gear Units

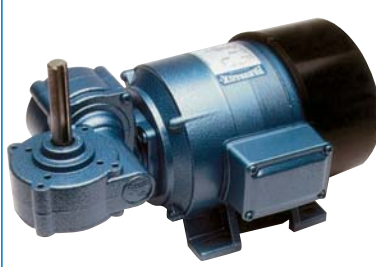
1 or 3 Phase Induction Motors – Constant Speed

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

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



SD 38 MM



SD 13 MM (T.E.F.C.)



SD 18 MM with brake

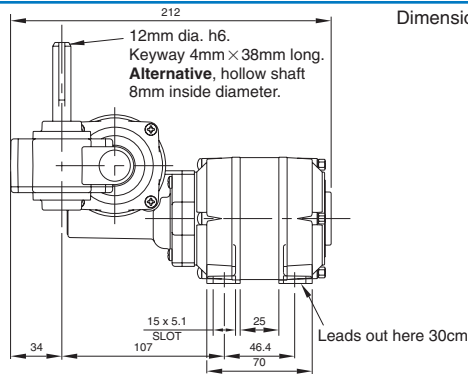
Voltage, Construction, Connections, Motor Performance

Specifications and Optional Extras see pages 6, 8 and 10 for full details.

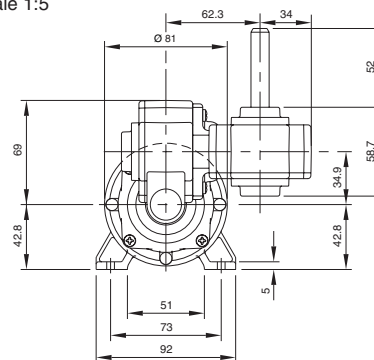
(1 Nm = 8.85 lbs. ins.) (1 Nm = 10.2 cmkp)

Gearbox Specification <i>Motor Speed 1400 r.p.m.</i>		SD 21 MM (1 Phase Only)				SD 8 MM – SD 38 MM		SD 28 MM – SD 29 MM	
		Shaded Pole (Vent)		Permanent Capacitor		1 or 3 Phase		1 or 3 Phase	
		<i>Motor Rating 8 watts</i>		<i>Motor Rating 8 watts</i>		<i>Motor Rating 35 watts</i>		<i>Motor Rating 55 watts</i>	
FINAL R.P.M.	RATIO	OUTPUT TORQUE (Nm)							
		COMPOSITE	BRONZE	COMPOSITE	BRONZE	COMPOSITE	BRONZE	COMPOSITE	BRONZE
0.5	2880:1	8.5	11.8	8.5	11.8	8.5	11.8	8.5	11.8
0.6	2376:1	8.5	11.8	8.5	11.8	8.5	11.8	8.5	11.8
0.75	1933:1	8.5	11.8	8.5	11.8	8.5	11.8	8.5	11.8
0.8	1800:1	9	11.8	9	11.8	9	11.8	9	11.8
0.9	1620:1	9	11.8	9	11.8	9	11.8	9	11.8
1	1440:1	9	11.8	9	11.8	9	11.8	9	11.8
2	720:1	9	–	9	–	9	11.8	9	11.8
3	479:1	6.8	–	6.8	–	9	11.8	9	11.8
4	360:1	5.7	–	5.7	–	9	11.8	9	11.8
5	287:1	4.5	–	4.5	–	9	11.8	9	11.8
6	240:1	4.1	–	4.1	–	9	11.8	9	11.8
7	209:1	4	–	4	–	9	11.8	9	11.8
8	178:1	3.8	–	3.8	–	9	11.8	9	11.8
9	160:1	3.6	–	3.6	–	9	11.8	9	11.8
10	145:1	3.4	–	3.4	–	9	11.8	9	11.8
11	129:1	3.2	–	3.2	–	9	11.8	9	11.8
12	117:1	3	–	3	–	9	11.8	9	11.8
13	111:1	2.7	–	2.7	–	9	11.8	9	11.8
14	103:1	2.6	–	2.6	–	9	11.8	9	11.8
15	94:1	2.4	–	2.4	–	9	–	9	11.8
16	89:1	2.3	–	2.3	–	9	–	9	11.8
17	86:1	2	–	2	–	8.6	–	9	11.8
18	78:1	1.9	–	1.9	–	7.9	–	9	11.8
19	75:1	1.7	–	1.7	–	7.2	–	9	11.8
20	70:1	1.6	–	1.6	–	6.6	–	9	11.3
24	58:1	1.5	–	1.5	–	6.1	–	9	10.4
26	53:1	1.4	–	1.4	–	5.5	–	9	9.4
30	47:1	1.1	–	1.1	–	5	–	8.6	8.6

Gearbox Specification <i>Motor Speed 1400 r.p.m.</i>		SD 18 MM		SD 13 MM – SD 18 MM			
		1 Phase Capacitor Start Induction Run		1 Phase Capacitor		3 Phase	
		<i>Motor Rating 95 watts</i>		<i>Motor Rating 100 watts</i>		<i>Motor Rating 125 watts</i>	
FINAL R.P.M.	RATIO	OUTPUT TORQUE (Nm)					
		COMPOSITE	BRONZE	COMPOSITE	BRONZE	COMPOSITE	BRONZE
0.5	2880:1	9	11.8	9	11.8	9	11.8
0.6	2376:1	9	11.8	9	11.8	9	11.8
0.75	1933:1	9	11.8	9	11.8	9	11.8
0.8	1800:1	9	11.8	9	11.8	9	11.8
0.9	1620:1	9	11.8	9	11.8	9	11.8
1	1440:1	9	11.8	9	11.8	9	11.8
2	720:1	9	11.8	9	11.8	9	11.8
3	479:1	9	11.8	9	11.8	9	11.8
4	360:1	9	11.8	9	11.8	9	11.8
5	287:1	9	11.8	9	11.8	9	11.8
6	240:1	9	11.8	9	11.8	9	11.8
7	209:1	9	11.8	9	11.8	9	11.8
8	178:1	9	11.8	9	11.8	9	11.8
9	160:1	9	11.8	9	11.8	9	11.8
10	145:1	9	11.8	9	11.8	9	11.8
11	129:1	9	11.8	9	11.8	9	11.8
12	117:1	9	11.8	9	11.8	9	11.8
13	111:1	9	11.8	9	11.8	9	11.8
14	103:1	9	11.8	9	11.8	9	11.8
15	94:1	9	11.8	9	11.8	9	11.8
16	89:1	9	11.8	9	11.8	9	11.8
17	86:1	9	10.7	9	11.8	9	11.8
18	78:1	9	9.6	9	11.8	9	11.8
19	75:1	8.5	-	9	11.8	9	11.8
20	70:1	7.9	-	9	11.8	9	11.8
24	58:1	7.4	-	9	10.7	9	11.8
26	53:1	6.8	-	9	10.1	9	11.8
30	47:1	6.2	-	9	9.5	9	11.8



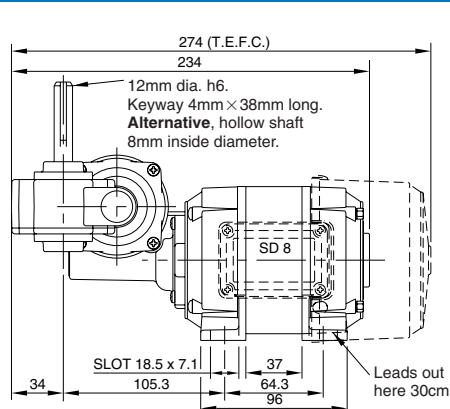
Dimensions in mm. Scale 1:5



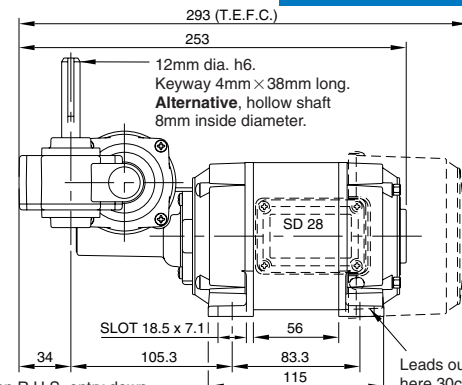
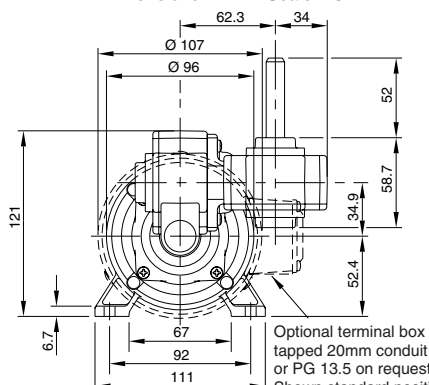
SD 21 MM

Optional shaft at motor speed (lead end only) 7.93mm dia. × 33mm long.

Approx. weight: SD 21 MM – 2.92 Kg



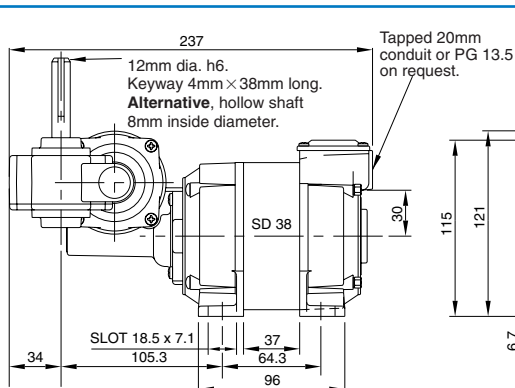
Dimensions in mm. Scale 1:5



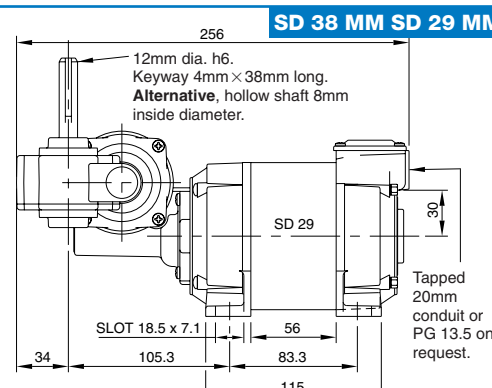
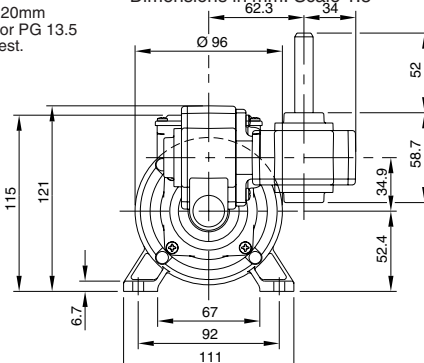
SD 8 MM SD 28 MM

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

Approx. weight: SD 8 MM – 4.18 Kg
SD 28 MM – 4.98 Kg



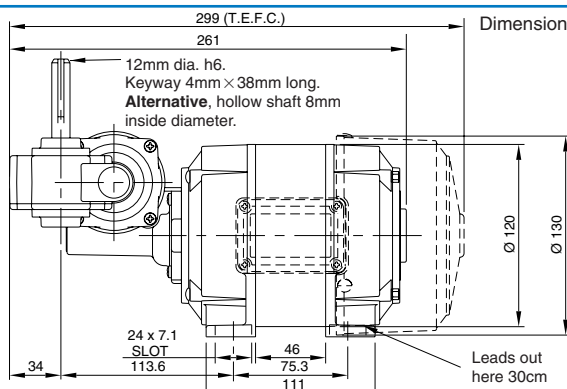
Dimensions in mm. Scale 1:5



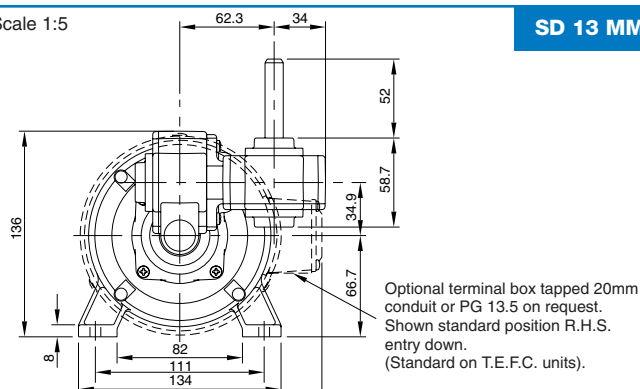
SD 38 MM SD 29 MM

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

Approx. weight: SD 38 MM – 4.23 Kg SD 29 MM – 5.00 Kg



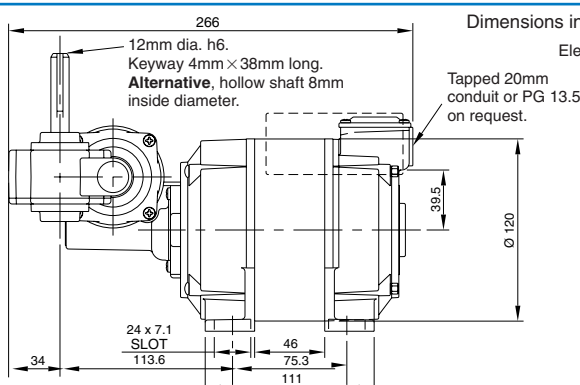
Dimensions in mm. Scale 1:5



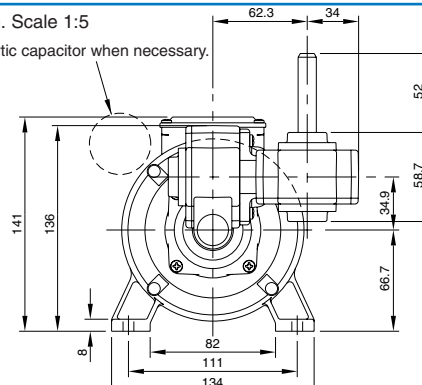
SD 13 MM

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

Approx. weight: SD 13 MM – 6.78 Kg



Dimensions in mm. Scale 1:5



SD 18 MM

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

Approx. weight: SD 18 MM – 6.78 Kg