

Gearbox Type:

LWS

Speed Range: 0.22 – 90 r.p.m.

Worm and Multi-Spur Reduction 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)



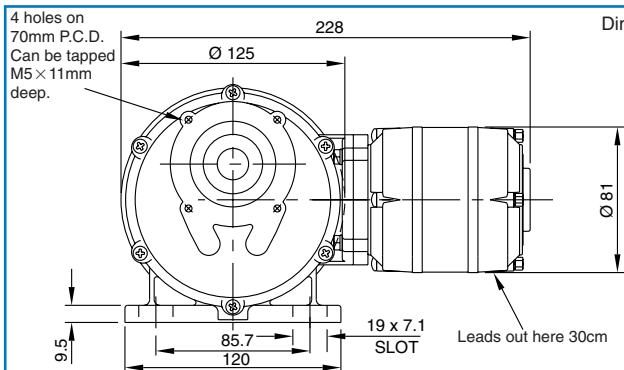
■ **Voltage, Construction, Connections, Motor Performance Specifications and**
Optional Extras see pages 6, 8 and 10 for full details.
Minimum speed of 0.15 r.p.m. obtainable using 900 r.p.m. motor (SD 8/13/18).
On request gearbox available without feet, can be mounted off of gearbox spigot tappings.

Note: 17mm diameter shaft available with gear ratio's 115:1, 56:1.

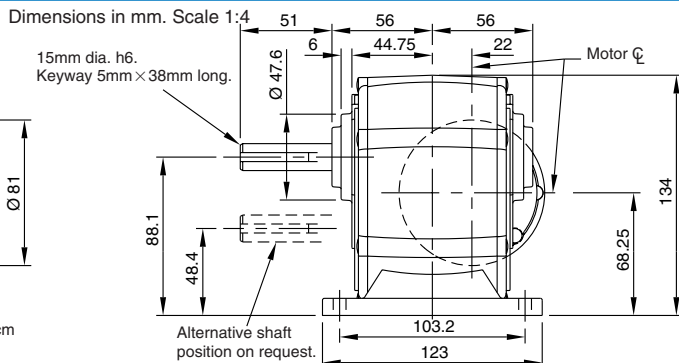
(1 Nm = 8.85 lbs. ins.) (1 Nm = 10.2 cmkp)

Gearbox Specification Motor Speed 1400 r.p.m.			SD 21 LWS	SD 8 LWS - SD 38 LWS	SD 28 LWS - SD 29 LWS	SD 18 LWS	SD 13 LWS – SD 18 LWS	
			1 Phase Capacitor	1 or 3 Phase	1 or 3 Phase	1 Phase Capacitor Start Induction Run	1 Phase	3 Phase
			Motor Rating 8 watts	Motor Rating 35 watts	Motor Rating 55 watts	Motor Rating 95 watts	Motor Rating 100watts	Motor Rating 125 watts
FINAL R.P.M.	RATIO		OUTPUT TORQUE (Nm)					
	WORM	SPUR						
0.22	54:1	115:1	100	100	100	100	100	100
0.45	27:1	115:1	67	100	100	100	100	100
0.62	40:1	56:1	45	100	100	100	100	100
0.92	27:1	56:1	35	100	100	100	100	100
1.5	16 1/2:1	56:1	25	100	100	100	100	100
1.85	13 1/2:1	56:1	22	93	100	100	100	100
2.2	11 1/3:1	56:1	20	83	100	100	100	100
2.4	10 1/3:1	56:1	18	78	100	100	100	100
3	8 1/3:1	56:1	15.5	66	100	100	100	100
3.4	16 1/2:1	25:1	11	49	62	62	62	62
4	14 1/2:1	25:1	10	44	62	62	62	62
4.5	12 1/2:1	25:1	9	40	62	62	62	62
5	11 1/3:1	25:1	8	35	55	62	62	62
6	9 1/3:1	25:1	7	30	49	62	62	62
7	8 1/3:1	25:1	6.5	28	45	62	62	62
8	7 1/4:1	25:1	6	26	41	62	62	62
9	6 1/4:1	25:1	5.6	24.5	37	62	62	62
11	5 1/6:1	25:1	5	20	32	55	58	62
13.5	4 1/8:1	25:1	4	17	27	47	50	62
16	14 1/2:1	6:1	2.5	11	17	30	32	39
18.5	12 1/2:1	6:1	2.3	10	16	27	28	35
22.5	10 1/3:1	6:1	1.9	8	13	23	23	28
28	8 1/3:1	6:1	1.7	7	11	20	21	26
32	7 1/4:1	6:1	1.5	6	10	18	18	23
37	6 1/4:1	6:1	1.4	5	9	16	16	21
45	5 1/6:1	6:1	1.2	4.8	8	13.5	14	18
56.5	4 1/8:1	6:1	1.0	4	6.6	11.3	12	15

Gearbox Specification Motor Speed 2800 r.p.m.			SD 21 LWS 1 Phase Capacitor Motor Rating 20 watts	SD 8 LWS - SD 38 LWS 1 or 3 Phase Motor Rating 60 watts	SD 28 LWS – SD 29 LWS		SD 18 LWS 1 Phase Capacitor Start Induction Run Motor Rating 125 watts	SD 13 LWS – SD 18 LWS	
FINAL R.P.M.	RATIO				1 Phase	3 Phase		1 Phase	3 Phase
	WORM	SPUR			Motor Rating 100 watts	Motor Rating 120 watts		Motor Rating 150 watts	Motor Rating 190 watts
0.9	27:1	115:1	84	100	100	100	100	100	100
1.25	40:1	56:1	57	100	100	100	100	100	100
1.85	27:1	56:1	43	100	100	100	100	100	100
3.0	16 1/2:1	56:1	32	93	100	100	100	100	100
4	12 1/2:1	56:1	26	79	100	100	100	100	100
5	10 1/3:1	56:1	20	60	100	100	100	100	100
5.4	9 1/3:1	56:1	21	59	100	100	100	100	100
7	7 1/4:1	56:1	17	50	84	100	100	100	100
8	6 1/4:1	56:1	15	45.5	76	91	95	100	100
10	11 1/3:1	25:1	10.6	32	53	62	62	62	62
12	9 1/3:1	25:1	9	27	45	54	57	62	62
15.5	7 1/4:1	25:1	7.5	22.5	37.5	45	46	56	62
22	5 1/6:1	25:1	6	17	29	35	36	44	56
27	4 1/8:1	25:1	5	15	25	30	31	37.5	47
37	12 1/2:1	6:1	3	8.4	14	17	17.5	21	26
45	10 1/3:1	6:1	2.1	6.3	10.5	12.6	13	15.7	19
56	8 1/3:1	6:1	2.0	6	10	12	12.5	15	18
74	6 1/4:1	6:1	1.6	4.8	8	9.6	10	12	15
90	5 1/6:1	6:1	1.4	4.2	7	8.4	8	10.5	13

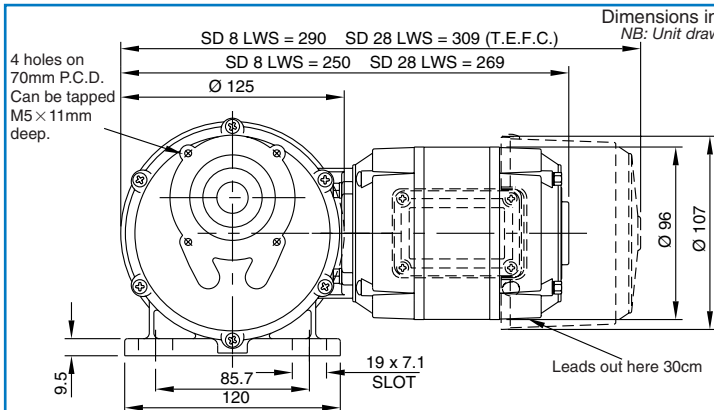


Optional shaft at motor speed (lead end only) 7.93mm dia. × 33mm long.



Approx. weight: SD 21 LWS – 5.45 Kg

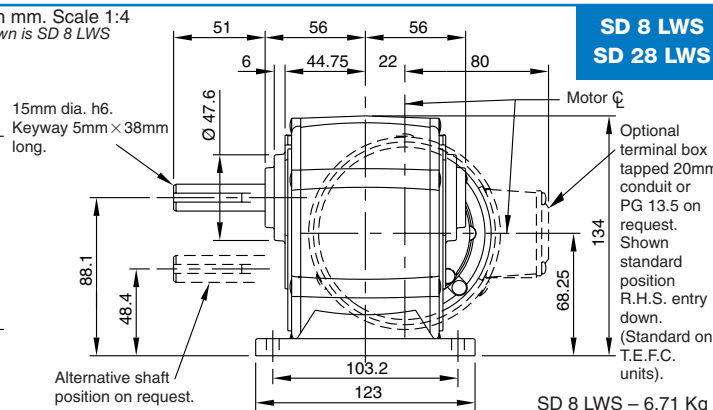
SD 21 LWS



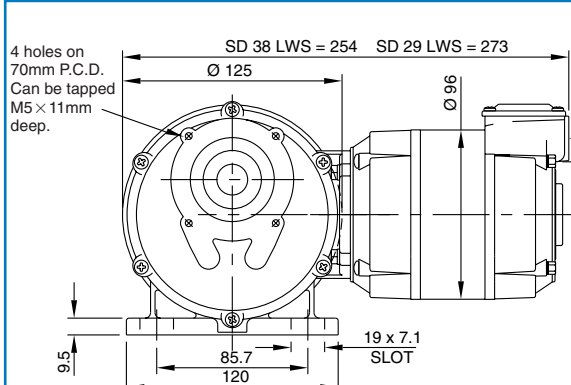
Optional shaft at motor speed (lead end only) see separate motor drawing for details (Page 9). Not applicable to T.E.F.C. units.

Approx. weight: SD 28 LWS – 7.51 Kg

SD 8 LWS
SD 28 LWS



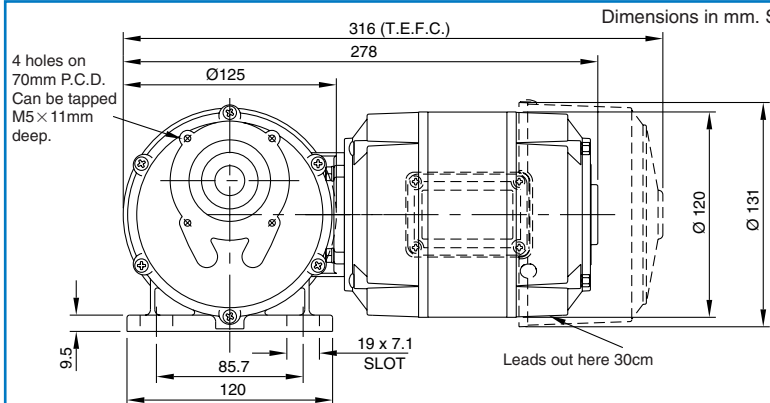
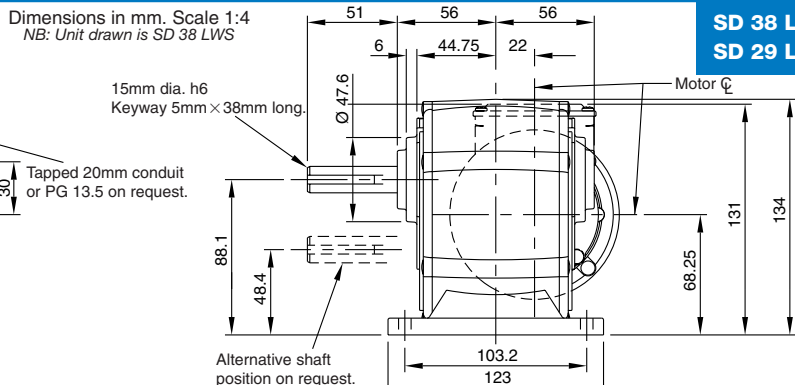
SD 8 LWS – 6.71 Kg



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

Approx. weight: SD 38 LWS – 6.76 Kg
SD 29 LWS – 7.53 Kg

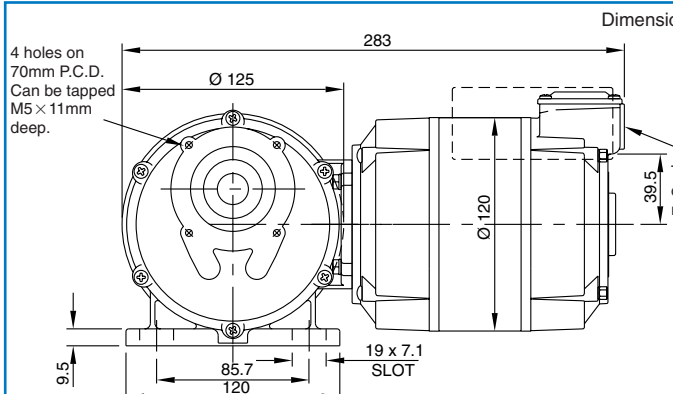
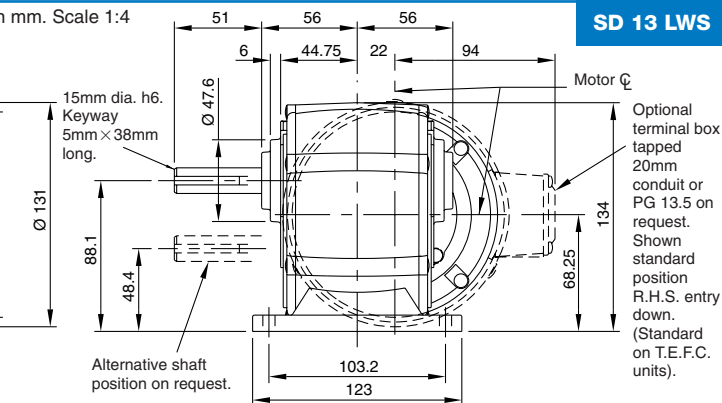
SD 38 LWS
SD 29 LWS



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

Approx. weight: SD 13 LWS – 9.31 Kg

SD 13 LWS



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

Approx. weight: SD 18 LWS – 9.31 Kg

SD 18 LWS

