

Motor Types:

SD 21 SD 41 SD 8
SD 38 SD 28 SD 29

1 or 3 Phase Induction Motors – Constant Speed
Shaded Pole, Permanent Capacitor or Synchronous
 Enclosures: Standard – Ventilated Internal Fan Cooled (IP 20)
 Alternative – Totally Enclosed (IP 50) with Terminal Box or T.E.F.C. (IP 54)



SD 21



SD 8



SD 38



SD 8 with brake

- Voltage Range:** 100/120v – 220/240v A.C. single phase, 50Hz. 380/440 A.C. three phase, 50Hz. Special voltages and frequencies quoted on request.
- Motor Type:** Single phase with separate capacitor or three phase induction, suitable for reversing. Shaded pole (not reversible) **anti-clockwise** rotation as standard.
- Starting Currents:** Capacitor or three phase induction: approx 2.5 times full load. Shaded pole: approx 2 times full load.
- Construction: Motors** – Shielded ball bearings spring loaded for quiet running.
Single Reduction Gearboxes: Fitted with ball bearings, alloy gearbox with composite gear wheel, grease lubricated for life and suitable for mounting in any position.
In-Line Double Reduction Gearboxes: Fitted with ball bearings, alloy gearbox with composite gear wheel, grease or oil bath lubricated for life and suitable for mounting in any position.
Spur Reduction Gearboxes: Fitted with ball bearings, alloy gearbox with composite pinion wheel and multi-spur type hardened steel gears, oil bath lubricated for life. Suitable for mounting in any position.
- Connections:** 30cm P.V.C. flexible (SD 38 and SD 29 terminal box).
- Insulation:** Class 'F' (maximum temperature rise 115°C at a maximum ambient of 40°C).
- Specifications:** B.S. 5000 part 11. (I.E.C. 72). (CSA C-US if required).

- Optional Extras:** Double ended motor spindles.
 Double ended gear shafts, (not available on in-line units).
 Non standard shafts (stainless steel, keyways, flats, etc).
 Terminal box (not available on SD 21).
 Totally enclosed frame half hour rating.
 Totally enclosed fan cooled frame (T.E.F.C.), continuous rating. (SD 8/SD 28 only).
 Enclosure IP 65 on request.
 Thermal overload protection.
- Electro-Magnetic Brake:** Page 6.
- Tachogenerator:** Page 117.
- Additional Extras for Geared Units:** Non standard catalogue reductions maybe available on request.
- Bronze Gears:** (Single and double reduction final gears).
- Flange Mounting Gearbox Details:** Page 114.
- Gearbox Shaft Positions:** Page 113.

SD 21	Single Phase						
	Shaded Pole						
	FULL LOAD R.P.M.	OUTPUT WATTS	STARTING TORQUE FULL LOAD	CURRENT (AMPS)		INPUT WATTS	RATING
1400	3.7	50%	0.22	0.2	30	TOTALLY ENCLOSED CONTINUOUS	
1400	8	80%	0.3	0.29	45	VENTILATED – CONTINUOUS TOTALLY ENCLOSED – 1/2 HR	
Permanent Capacitor							
						M.F.D.	
			240V	220V			
1400	8	100%	0.18	0.16	40	2.5	
2800	20	85%	0.34	0.3	80	2	

SD 41	Single Phase						
	Permanent Capacitor						
	FULL LOAD R.P.M.	OUTPUT WATTS	STARTING TORQUE FULL LOAD	CURRENT (AMPS)		INPUT WATTS	CAPACITOR (M.F.D.)
							240V
1400	10	100%	0.2	0.19	40	3	3
2800	25	100%	0.25	0.24	65	2.5	2.5
Three Phase							
			440V	380V			
1400	10	150%	0.14	0.12	47		
2800	25	150%	0.14	0.12	58		

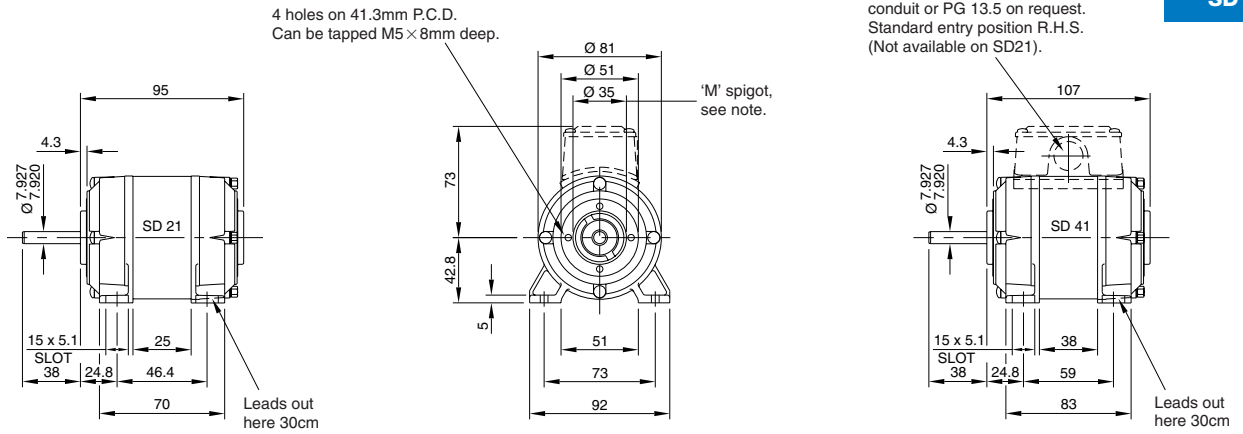
SD 8 SD 38	Single Phase						
	Permanent Capacitor						
	FULL LOAD R.P.M.	OUTPUT WATTS	STARTING TORQUE FULL LOAD	CURRENT (AMPS)		INPUT WATTS	CAPACITOR (M.F.D.)
							240V
900	10	100%	0.2	0.22	45	2	2
1400	35	85%	0.3	0.3	75	2.5	2.5
2800	60	75%	0.57	0.53	127	4	4
Two Speed Permanent Capacitor							
1400	30	50%	0.43	0.4	85	6	6
2800	50	50%	0.47	0.48	110	6	6
Synchronous Permanent Capacitor							
1500 (syn)	10	100%	0.26	0.23	55	5	5

SD 8 SD 38	Three Phase					
	FULL LOAD R.P.M.	OUTPUT WATTS	STARTING TORQUE FULL LOAD	CURRENT (AMPS)		INPUT WATTS
				440V	380V	
900	15	100%	0.2	0.17	80	
1400	35	200%	0.24	0.22	80	
2800	60	200%	0.24	0.22	105	
Two Speed						
1400	30	100%	0.21	0.18	90	
2800	50	100%	0.16	0.17	90	
Synchronous						
1500 (syn)	10	100%	0.22	0.21	60	

SD 28 SD 29	Single Phase						
	Permanent Capacitor						
	FULL LOAD R.P.M.	OUTPUT WATTS	STARTING TORQUE FULL LOAD	CURRENT (AMPS)		INPUT WATTS	CAPACITOR (M.F.D.)
							240V
1400	55	85%	0.41	0.46	100	3	4
2800	100	85%	0.76	0.75	185	6	6
Three Phase							
			440V	380V			
1400	55	150%	0.28	0.25	120		
2800	120	150%	0.36	0.38	210		

**SD 21
SD 41**

Dimensions in mm. Scale 1:5



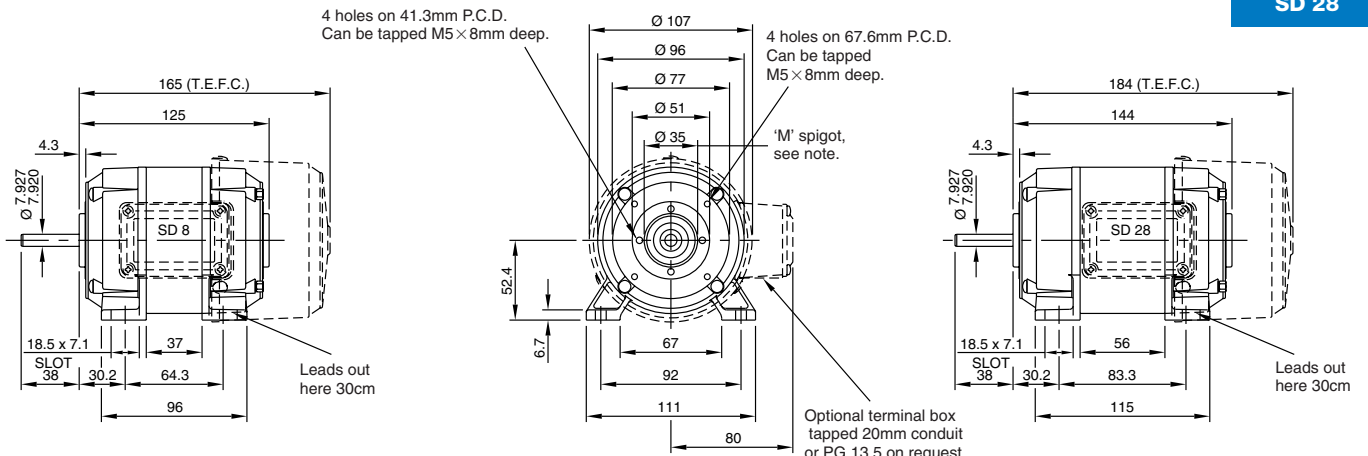
Optional terminal box tapped 20mm conduit or PG 13.5 on request. Standard entry position R.H.S. (Not available on SD21).

Spigot 'M' can be machined to 34.54/34.49mm dia. concentric with shaft 0.05mm T.I.R. Optional shaft at lead end, 7.93mm dia. x 33mm long.

Approx. weight: SD 21 – 1.54 Kg
SD 41 – 2.10 Kg

**SD 8
SD 28**

Dimensions in mm. Scale 1:5



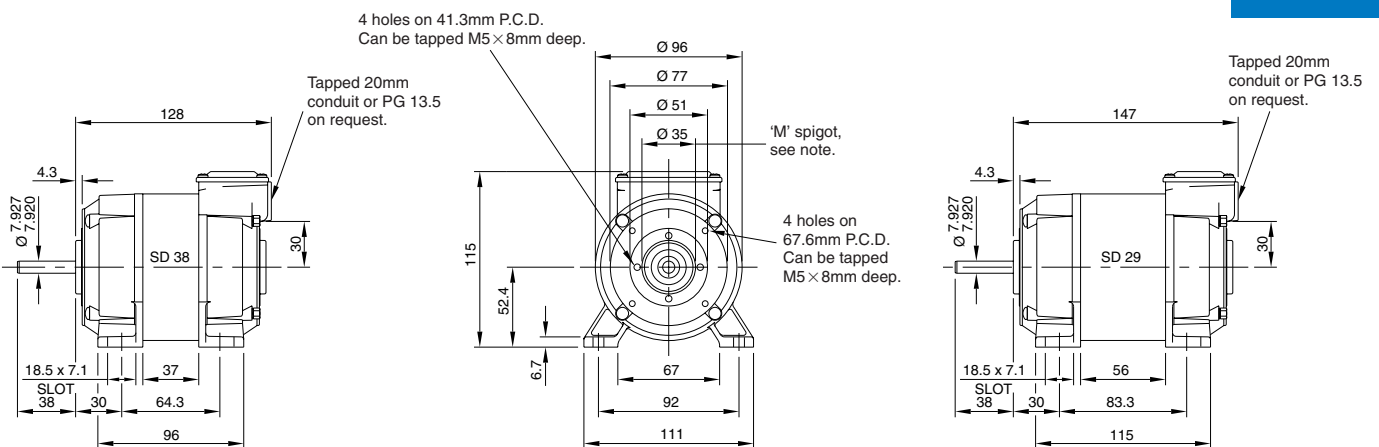
Optional terminal box tapped 20mm conduit or PG 13.5 on request. Shown standard position R.H.S. entry down. (Standard on T.E.F.C. units).

Spigot 'M' can be machined to 34.54/34.49mm dia. concentric with shaft 0.05mm T.I.R. Optional shaft at lead end see separate drawing for details. Not applicable to T.E.F.C. units.

Approx. weight: SD 8 – 2.80 Kg
SD 28 – 3.60 Kg

**SD 38
SD 29**

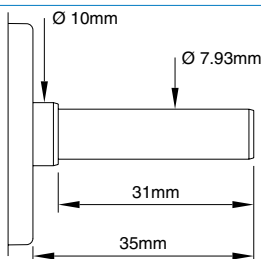
Dimensions in mm. Scale 1:5



Spigot 'M' can be machined to 34.54/34.49mm dia. concentric with shaft 0.05mm T.I.R. Optional shaft at terminal box end see separate drawing for details.

Approx. weight: SD 38 – 2.85 Kg
SD 29 – 3.62 Kg

Non-drive end extension (optional)



**SD 8 SD 38
SD 28 SD 29**