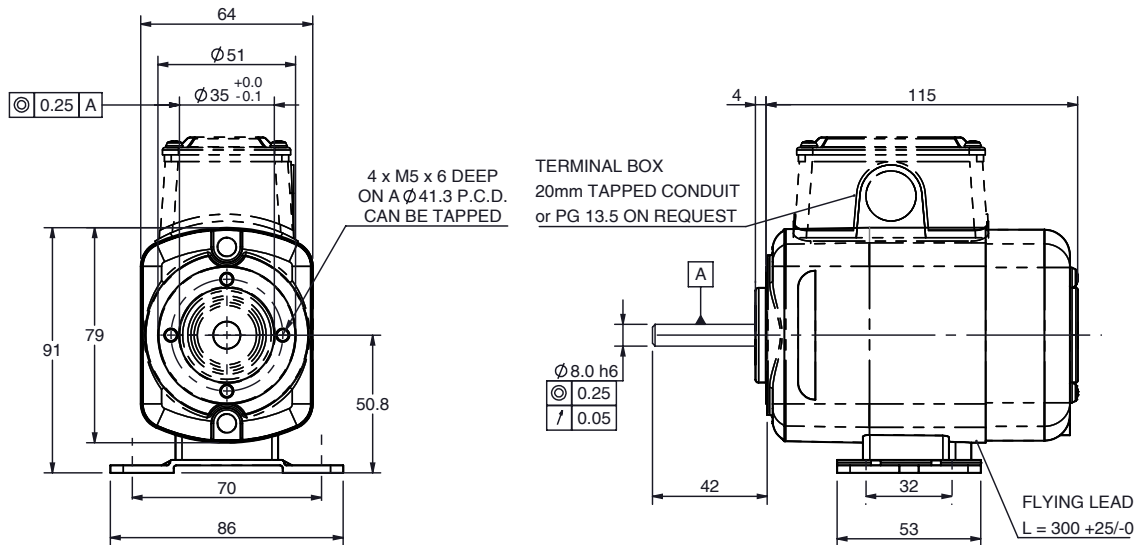


SD1 (SERIES) AC/DC motor

80 x 64 mm frame

all dimensions in mm

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Part number key

Modular	#####
Standard	#####
Calculated data	#####

Please see our customisation options page for details on the modifications available on our products. Advice and guidance on these options are available from your local sales engineer.

Note: Terminal box and feet optional on this motor - please contact your local sales engineer for more information.

Technical data

1 Part number		-	-	-	-	-	-	-	-
2 Minimum voltage available	V	12	12	12	12	24	24	24	24
3 Nominal power	W	10	15	25	38	38	50	63	75
4 Nominal speed	rpm	2000	2500	3000	3000	4000	4000	5500	6500
5 Nominal continuous torque (S1)	Nm	0.05	0.06	0.08	0.12	0.09	0.12	0.11	0.11
6 Input current 240 V AC	A	0.23	0.25	0.27	0.60	0.45	0.65	0.68	0.80
7 Input current 220 V AC	A	0.25	0.30	0.30	0.65	0.50	0.70	0.75	0.95
8 Approximate starting current ¹	A	3 x F.L.	3 x F.L.	3 x F.L.	3 x F.L.	3 x F.L.	3 x F.L.	3 x F.L.	3 x F.L.
9 Input power	W	37	40	40	110	90	125	130	160

¹3 x F.L. = 3 x Full Load

Thermal data

10 Ambient temperature	°C	40
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Mechanical data

11 Radial load [distance from flange]	N [mm]	110 [15]
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Other data

12 Weight	Kg	1.22
13 Enclosure		VENT/TENC
14 IP Rating - Ventilated		IP20
15 IP Rating - TENC [with terminal box]		IP50 [IP54]
16 Insulation Class		F
17 Type		Series wound
18 Direction		Reversible

Compatible products

Gearbox	Page	Brake	Page #
S Box	216	1.5 Nm	258
SWS	220	2.0 Nm	259
M Box	222		
MWS	230		
LWS	236		

Encoder	Page #
On request	-

Key

Standard combination

Modular combination

SD1 (SERIES) combinations

Quickview - combination drawing and technical data

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Combination drawing		Technical data							
SD1-S Box		Gear material ¹	Comp.	Comp.	Comp.	Bronze	Bronze	Bronze	
		Gear ratio ²	:1	4	30	70	4	30	70
		Speed rpm	1625.0	216.7	92.9	1625.0	216.7	92.9	
		Nominal torque Nm	0.4	2.1	2.0	0.3	1.9	2.7	
SD1-SWS		Gear material ¹	Comp.	Comp.	Comp.	Bronze	Bronze	Bronze	
		Gear ratio ²	:1	36	207	1364	-	-	-
		Speed rpm	180.6	31.4	4.8	-	-	-	
		Nominal torque Nm	2.8	11.0	11.0	-	-	-	
SD1-M Box		Gear material ¹	Comp.	Comp.	Comp.	Bronze	Bronze	Bronze	
		Gear ratio ²	:1	4	30	72	4	30	72
		Speed rpm	1625.0	216.7	90.3	1625.0	216.7	90.3	
		Nominal torque Nm	0.4	2.3	3.6	0.3	2.0	3.2	
SD1-MWS		Gear material ¹	Comp.	Comp.	Comp.	Bronze	Bronze	Bronze	
		Gear ratio ²	:1	24	120	1400	-	-	-
		Speed rpm	270.8	54.2	4.6	-	-	-	
		Nominal torque Nm	2.0	9.8	45.0	-	-	-	
SD1-LWS		Gear material ¹	Comp.	Comp.	Comp.	Bronze	Bronze	Bronze	
		Gear ratio ²	:1	48	672	3450	-	-	-
		Speed rpm	135.4	9.7	1.9	-	-	-	
		Nominal torque Nm	3.6	48.0	100.0	-	-	-	

Key

Standard combination / standard gear ratio

Modular combination / modular gear ratio

Notes

¹ Comp. = Composite gears

² Full gear ratio options displayed on individual gearbox datasheets

→ Technical data displayed above calculated based on **SD1 (SERIES) 24V 6500 rpm** motor.

→ Simplified drawings displayed above show overall envelope size of the combination. Please see individual motor and gearbox datasheets for detailed technical drawings.