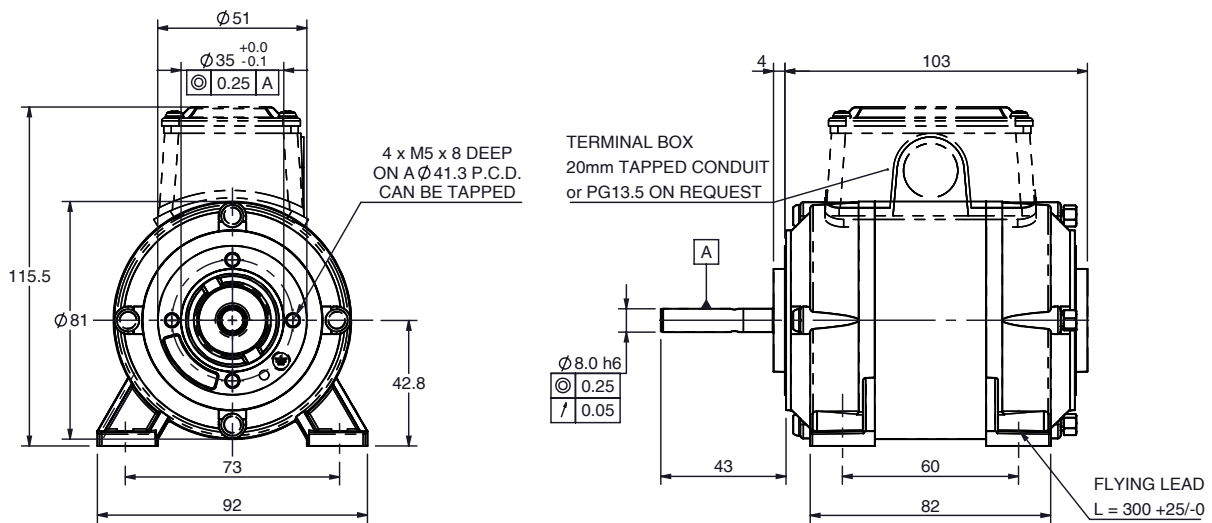


# SD41 (4-POLE) AC motor

Ø81 mm frame // 38 mm stack

all dimensions in mm

**parvalux**  
by **maxon**



## 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 Phases		1	1	3	3
3 Frequency	Hz	50	60	50	60
4 Nominal voltage	V AC	230/115	230/115	400/230	400/230
5 Nominal power	W	10	10	10	10
6 Nominal speed	rpm	1400	1700	1400	1700
7 Nominal continuous torque (S1)	Nm	0.07	0.06	0.09	0.07
8 Nominal continuous current (S1)	A	0.20	0.60	0.14	-
9 Starting Current	A	0.50	1.50	0.35	0
10 Input power	W	40	-	47	-
11 Capacitor Value	M.F.D	3.0	3.0/10.0	-	-
12 Starting torque full load	%	100	100	150	150
13 Stack length	mm	38	38	38	38
14 Number of poles		4	4	4	4
15 Rotor inertia	Kg/cm <sup>2</sup>	-	-	-	-

## Thermal data

16 Ambient temperature	°C	40
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## Mechanical data

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

18 Weight	Kg	2.1
19 Enclosure		VENT/TE
20 IP Rating - Ventilated		IP20
21 IP Rating - TE/TEFC		IP54
22 Insulation Class		F
23 Type		Permanent capacitor, asynchronous
24 Direction		Reversible

## Compatible products

Gearbox	Page #	Brake	Page #
S Box	216	1.5 Nm	258
GB28	218	2.0 Nm	259
GB58	219		
SWS	220		
M Box	222		
PGx42	248		
GB36	231		
LWS	236		

Encoder	Page #
On request	-

## Key

Standard combination

Modular combination

# SD41 (4-POLE) combinations

Quickview - combination drawing and technical data

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Combination drawing		Technical data							
SD41-S-Box		Gear material <sup>1</sup>	Comp.	Comp.	Comp.	Bronze	Bronze	Bronze	
		Gear ratio <sup>2</sup>	:1	4	30	70	4	30	70
		Speed	<b>rpm</b>	425.0	56.7	24.3	425.0	56.7	24.3
		Nominal torque	<b>Nm</b>	0.2	1.4	2.0	0.2	1.2	1.7
SD41-GB28		Gear material <sup>1</sup>	Comp.	Comp.	Comp.	Bronze	Bronze	Bronze	
		Gear ratio <sup>2</sup>	:1	-	-	-	15	30	60
		Speed	<b>rpm</b>	-	-	-	113.3	56.7	28.3
		Nominal torque	<b>Nm</b>	-	-	-	0.8	1.4	1.9
SD41-GB58		Gear material <sup>1</sup>	Comp.	Comp.	Comp.	Bronze	Bronze	Bronze	
		Gear ratio <sup>2</sup>	:1	4	15	25	-	-	-
		Speed	<b>rpm</b>	425.0	113.3	68.0	-	-	-
		Nominal torque	<b>Nm</b>	0.2	0.8	1.2	-	-	-
SD41-SWS		Gear material <sup>1</sup>	Comp.	Comp.	Comp.	Bronze	Bronze	Bronze	
		Gear ratio <sup>2</sup>	:1	36	207	1364	-	-	-
		Speed	<b>rpm</b>	47.2	8.2	1.2	-	-	-
		Nominal torque	<b>Nm</b>	1.8	10.3	11.0	-	-	-
SD41-M-Box		Gear material <sup>1</sup>	Comp.	Comp.	Comp.	Bronze	Bronze	Bronze	
		Gear ratio <sup>2</sup>	:1	4	30	72	4	30	72
		Speed	<b>rpm</b>	425.0	56.7	23.6	425.0	56.7	23.6
		Nominal torque	<b>Nm</b>	0.2	1.5	2.3	0.2	1.3	2.0
SD41-PGX42		Gear material <sup>1</sup>	Comp.	Comp.	Comp.	Bronze	Bronze	Bronze	
		Gear ratio [stages] <sup>2</sup>	:1	-	-	-	3.5 [1]	353 [4]	936 [4]
		Speed	<b>rpm</b>	-	-	-	485.7	4.8	1.8
		Nominal torque	<b>Nm</b>	-	-	-	0.2	11.3	11.3
SD41-GB36		Gear material <sup>1</sup>	Comp.	Comp.	Comp.	Bronze	Bronze	Bronze	
		Gear ratio <sup>2</sup>	:1	24	120	1400	-	-	-
		Speed	<b>rpm</b>	70.8	14.2	1.2	-	-	-
		Nominal torque	<b>Nm</b>	1.3	6.2	45.0	-	-	-
SD41-LWS		Gear material <sup>1</sup>	Comp.	Comp.	Comp.	Bronze	Bronze	Bronze	
		Gear ratio <sup>2</sup>	:1	48	672	3450	-	-	-
		Speed	<b>rpm</b>	35.4	2.5	0.5	-	-	-
		Nominal torque	<b>Nm</b>	2.3	30.6	100.0	-	-	-

## Key

Standard combination / standard gear ratio

**Modular combination / modular gear ratio**

## Notes

<sup>1</sup> Comp. = Composite gears

<sup>2</sup> Full gear ratio options displayed on individual gearbox datasheets

→ Technical data displayed above calculated based on **SD41 (4-POLE) 3 Phase 60Hz** motor.

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