
parvalux
by maxon
We know how to move
packaging automation
www.parvalux.com/packaging-automation

About Parvalux

A true British manufacturing success story, Parvalux is the UK's largest fractional-horsepower electric motor manufacturer and supplier, with state-of-the-art manufacturing and service facilities.

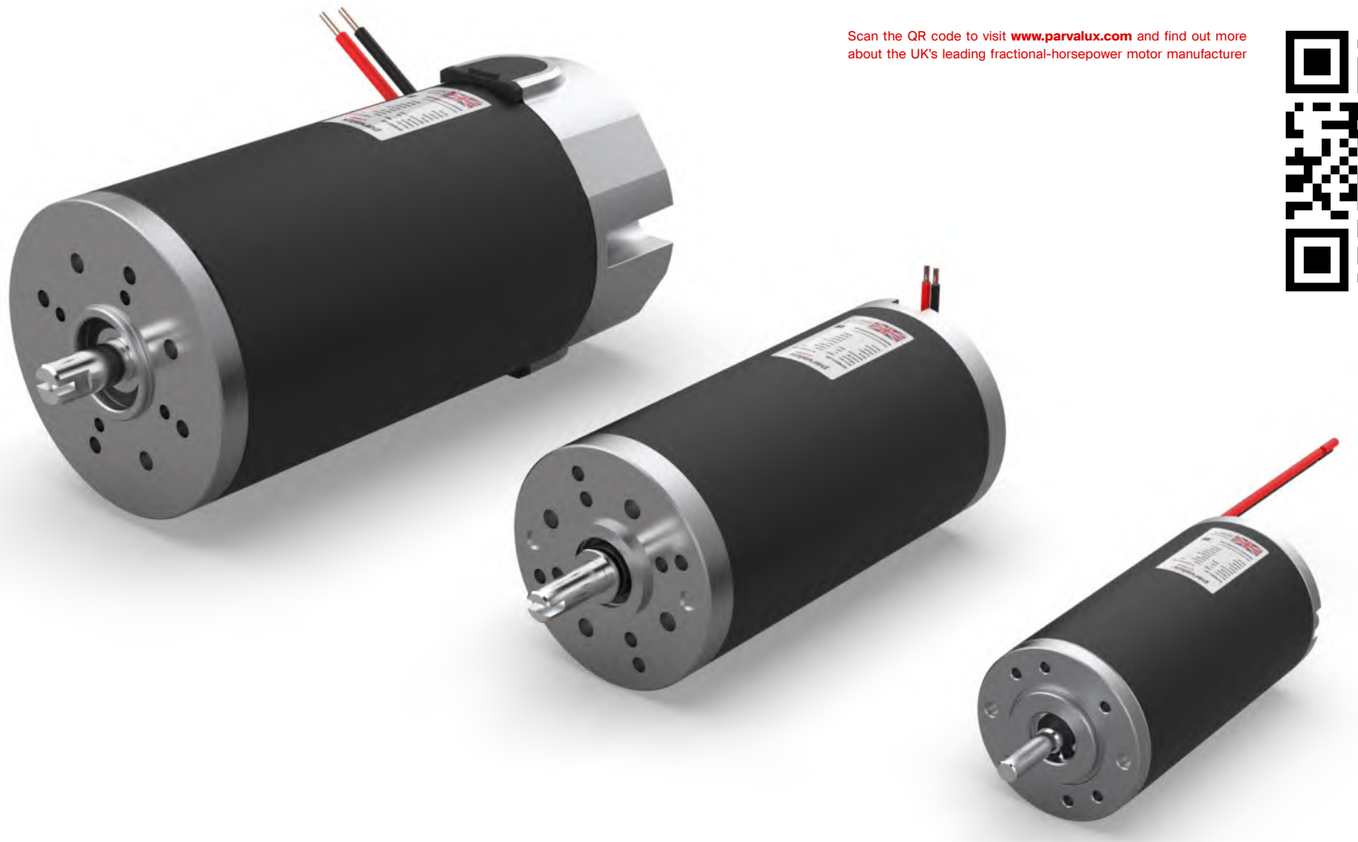
We have nearly 80 years' experience creating the perfect combination of motor and gearbox to match our customers' applications and we offer thousands of standard AC, DC brushed and DC brushless electric motor options.

We can easily customise any motor or gearbox to meet your exact requirements, with our expert in-house design team on hand to help you choose, customise, or design from scratch a geared motor solution that ensures you gain a competitive advantage in your market.

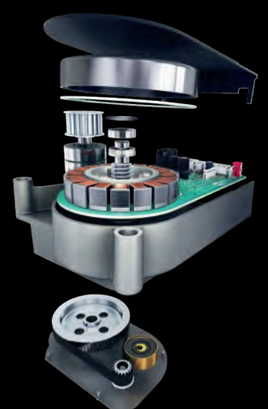
Our products provide unbeatable reliability and performance, even in challenging conditions, and can be found in thousands of applications all over the world.

Since 2018, Parvalux has been part of the maxon group. This means that we have representation on every continent and the backing of one of the finest technical teams on the planet.

Require assistance with your project?
Don't hesitate to contact your local sales engineer, found on the last page of this brochure.



Scan the QR code to visit **www.parvalux.com** and find out more about the UK's leading fractional-horsepower motor manufacturer



maxon
Precision Drive Systems

In 2018 Parvalux was acquired by Swiss motor manufacturer, maxon. Their brushless and brushed DC motors with ironless windings are among the best in the world; with flat motors with iron cores completing their modular product portfolio.

maxon's modular system includes planetary and spur gearheads, spindle drives, as well as encoders and control electronics.

We know how to move

packaging automation

The global packaging automation market is rapidly expanding, driven mainly by the rising demands of e-commerce and logistics for faster, more flexible, and more sustainable packaging processes.

With an expansive standard product range, and the ability to create fully custom solutions from scratch, Parvalux is the first choice for many manufacturers of packaging automation systems such as void-filling systems, shrink wrapping machines, on-demand packaging, and case sealing machines.

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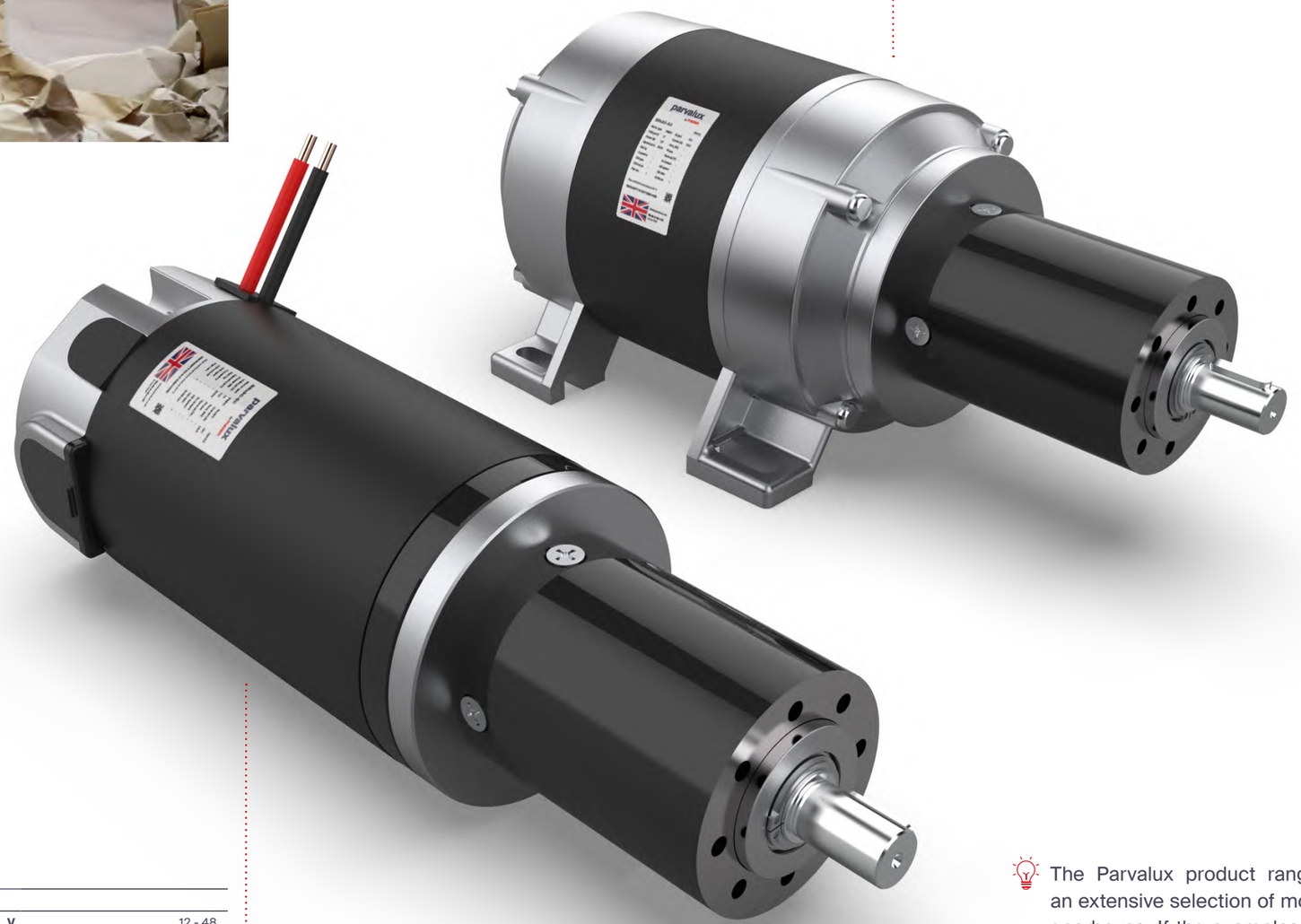


Void-filling systems

Void filling machines automate the insertion of packing materials such as air pillows or paper to ensure products are safe and protected during transportation and shipping processes. Parvalux motors power these systems with smooth, reliable motion to feed, cut, and dispense packaging materials on demand.

Our compact, high-torque gear motors ensure consistent operation, reduced risk of jams or misfeeds, and an efficient power supply that is essential for e-commerce and fulfilment centres where speed and accuracy are vital.

SD28-PGx52		
Frequency	**Hz**	50 - 60
Voltage	**V**	115 - 400
Power	**W**	55 - 120
Speed	**rpm**	13 - 642
Nominal torque	**Nm**	1.4 - 30.0
Detail specification available on pages 07 - 10		



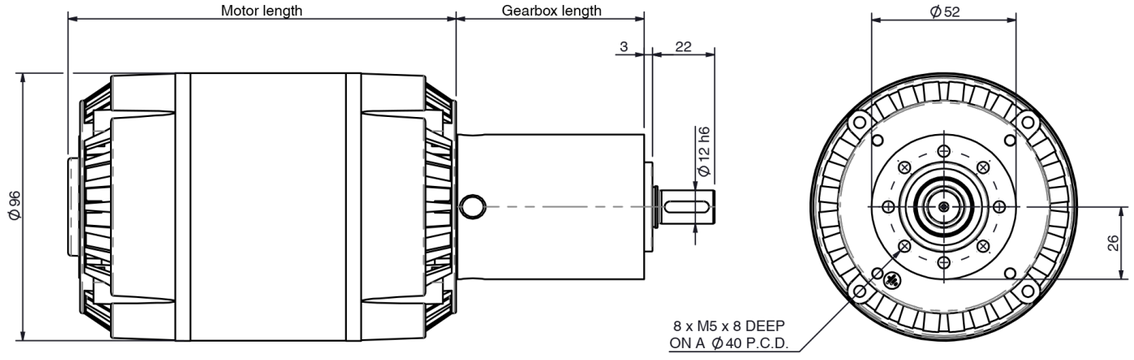
BRx70-PGx52		
Voltage	**V**	12 - 48
Power	**W**	79 - 157
Speed	**rpm**	27 - 566
Nominal torque	**Nm**	1.3 - 30.0
Intermittent torque	**Nm**	2.1 - 45.0
Detail specification available on page 11		

The Parvalux product range offers an extensive selection of motors and gearboxes. If the examples selected within this section do not meet your specification please get in touch with your local sales engineer to discuss your requirements.

SD28 (1 Phase, 2 Pole)-PGx52 AC planetary geared motor

230/115 V // 100 W // 25 - 642 rpm // 1.4 - 30.0 Nm

all dimensions in mm



Combination data									
Motor		SD28 50Hz	SD28 50Hz	SD28 50Hz	SD28 50Hz	SD28 60Hz	SD28 60Hz	SD28 60Hz	SD28 60Hz
Phase		1	1	1	1	1	1	1	1
Poles		2	2	2	2	2	2	2	2
Frequency	**Hz**	50	50	50	50	60	60	60	60
Voltage	**V**	230/115	230/115	230/115	230/115	230/115	230/115	230/115	230/115
Nominal motor power	**W**	100	100	100	100	100	100	100	100
Gearbox ratio	**:1**	5.3	16	62	111	5.3	16	62	111
Nominal speed	**rpm**	528	175	45	25	642	213	55	31
Nominal torque (S1)	**Nm**	1.7	5.0	18.8	30.0	1.4	4.1	15.5	27.7

Motor only data			
Motor		SD28 50Hz	SD28 60Hz
Phase		1	1
Poles		2	2
Frequency	**Hz**	50	60
Nominal voltage	**V**	230/115	230/115
Nominal power	**W**	100	100
Nominal speed	**rpm**	2800	3400
Continuous torque (S1)	**Nm**	0.34	0.28
Weight	**Kg**	3.6	3.6
Stack length	**mm**	56	56
Motor length	**mm**	140	140
Capacitor	**MFD**	6.0 / 20.0	6.0 / 20.0

Motor accessories

Brake
- → 2.0 Nm

Encoder
N/A

Controller
N/A

Gearbox only data					
Part number		891042	891043	891044	891047
Ratio	**:1**	5.3	16	62	111
Stages		1	2	3	3
Max. continuous torque (S1) [1]	**Nm**	5.0	15.0	30.0	30.0
Max. intermittent torque	**Nm**	7.0	23.0	45.0	45.0
Efficiency	**%**	95	92	89	89
Max. axial load (dynamic)	**N**	200	200	200	200
Max. radial load, 12mm from flange	**N**	420	630	900	900
Weight	**Kg**	0.69	0.86	1.08	1.08
Gearbox length	**mm**	50.4	67.5	84.4	84.4
Gear material		Steel	Steel	Steel	Steel

[1] S1 duty cycle based on 3000rpm input speed

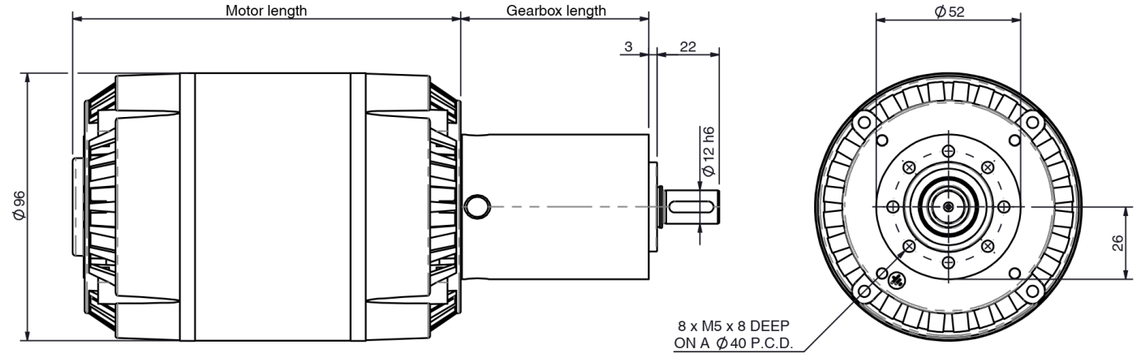
Gearbox accessories

Shaft modifications
- → Various lengths and diameters
- → Keyways
- → Flats
- → Centre holes

SD28 (1 Phase, 4 Pole)-PGx52 AC planetary geared motor

230/115 V // 55 W // 13 - 321 rpm // 1.6 - 30.0 Nm

all dimensions in mm



Combination data									
Motor		SD28 50Hz	SD28 50Hz	SD28 50Hz	SD28 50Hz	SD28 60Hz	SD28 60Hz	SD28 60Hz	SD28 60Hz
Phase		1	1	1	1	1	1	1	1
Poles		4	4	4	4	4	4	4	4
Frequency	**Hz**	50	50	50	50	60	60	60	60
Voltage	**V**	230/115	230/115	230/115	230/115	230/115	230/115	230/115	230/115
Nominal motor power	**W**	55	55	55	55	55	55	55	55
Gearbox ratio	**:1**	5.3	16	62	111	5.3	16	62	111
Nominal speed	**rpm**	264	88	23	13	321	106	27	15
Nominal torque (S1)	**Nm**	1.9	5.5	20.7	30.0	1.6	4.5	17.0	30.0

Motor only data			
Motor		SD28 50Hz	SD28 60Hz
Phase		1	1
Poles		4	4
Frequency	**Hz**	50	60
Nominal voltage	**V**	230/115	230/115
Nominal power	**W**	55	55
Nominal speed	**rpm**	1400	1700
Continuous torque (S1)	**Nm**	0.38	0.31
Weight	**Kg**	3.6	3.6
Stack length	**mm**	56	56
Motor length	**mm**	140	140
Capacitor	**MFD**	6.0 / 20.0	4.0 / 14.0

Motor accessories

Brake
- → 2.0 Nm

Encoder
N/A

Controller
N/A

Gearbox only data					
Part number		891042	891043	891044	891047
Ratio	**:1**	5.3	16	62	111
Stages		1	2	3	3
Max. continuous torque (S1) [1]	**Nm**	5.0	15.0	30.0	30.0
Max. intermittent torque	**Nm**	7.0	23.0	45.0	45.0
Efficiency	**%**	95	92	89	89
Max. axial load (dynamic)	**N**	200	200	200	200
Max. radial load, 12mm from flange	**N**	420	630	900	900
Weight	**Kg**	0.69	0.86	1.08	1.08
Gearbox length	**mm**	50.4	67.5	84.4	84.4
Gear material		Steel	Steel	Steel	Steel

[1] S1 duty cycle based on 3000rpm input speed

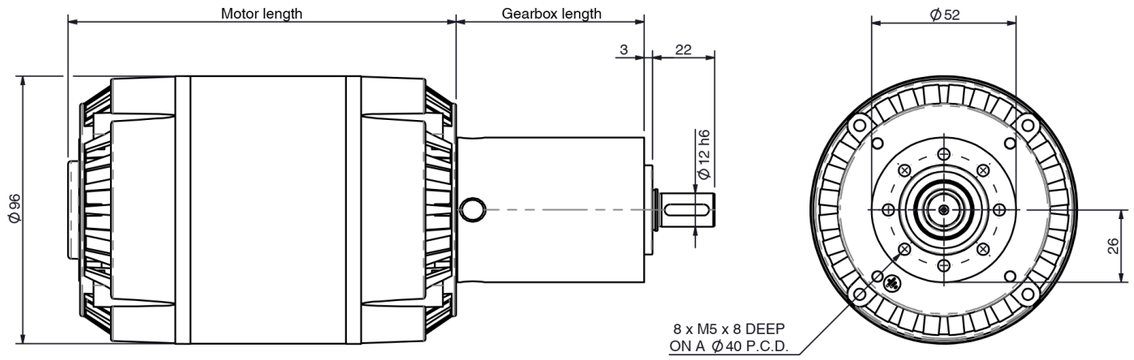
Gearbox accessories

Shaft modifications
- → Various lengths and diameters
- → Keyways
- → Flats
- → Centre holes

SD28 (3 Phase, 2 Pole)-PGx52 AC planetary geared motor

all dimensions in mm

400/230 V // 120 W // 25 - 642 rpm // 1.7 - 30.0 Nm



Combination data									
Motor		SD28 50Hz	SD28 50Hz	SD28 50Hz	SD28 50Hz	SD28 60Hz	SD28 60Hz	SD28 60Hz	SD28 60Hz
Phase		3	3	3	3	3	3	3	3
Poles		2	2	2	2	2	2	2	2
Frequency	Hz	50	50	50	50	60	60	60	60
Voltage	V	400/230	400/230	400/230	400/230	400/230	400/230	400/230	400/230
Nominal motor power	W	120	120	120	120	120	120	120	120
Gearbox ratio	:1	5.3	16	62	111	5.3	16	62	111
Nominal speed	rpm	528	175	45	25	642	213	55	31
Nominal torque (S1)	Nm	2.1	6.0	22.6	30.0	1.7	5.0	18.6	30.0

Motor only data			
Motor		SD28 50Hz	SD28 60Hz
Phase		3	3
Poles		4	4
Frequency	Hz	50	60
Nominal voltage	V	400/230	400/230
Nominal power	W	120	120
Nominal speed	rpm	2800	3400
Continuous torque (S1)	Nm	0.41	0.34
Weight	Kg	3.6	3.6
Stack length	mm	56	56
Motor length	mm	140	140

Motor accessories
Brake
→ 2.0 Nm
Encoder
N/A
Controller
N/A

Gearbox only data					
Part number		891042	891043	891044	891047
Ratio	:1	5.3	16	62	111
Stages		1	2	3	3
Max. continuous torque (S1) [1]	Nm	5.0	15.0	30.0	30.0
Max. intermittent torque	Nm	7.0	23.0	45.0	45.0
Efficiency	%	95	92	89	89
Max. axial load (dynamic)	N	200	200	200	200
Max. radial load, 12mm from flange	N	420	630	900	900
Weight	Kg	0.69	0.86	1.08	1.08
Gearbox length	mm	50.4	67.5	84.4	84.4
Gear material		Steel	Steel	Steel	Steel

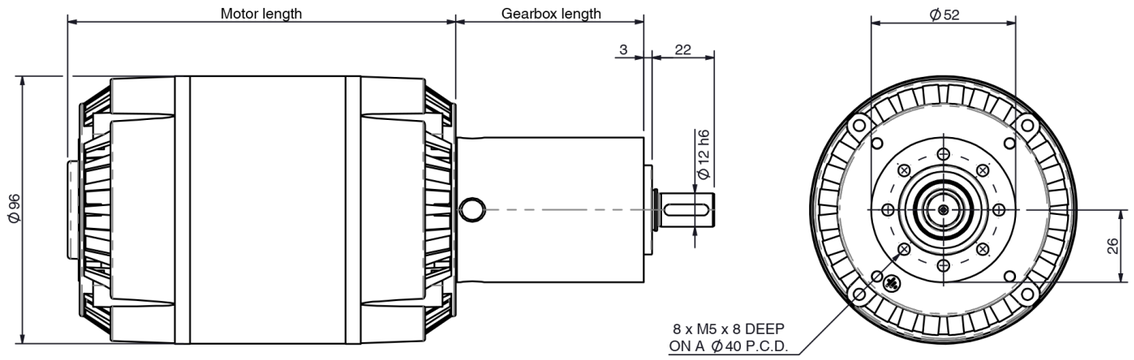
[1] S1 duty cycle based on 3000rpm input speed

Gearbox accessories
Shaft modifications
→ Various lengths and diameters
→ Keyways
→ Flats
→ Centre holes

SD28 (3 Phase, 4 Pole)-PGx52 AC planetary geared motor

all dimensions in mm

400/230 V // 55 W // 13 - 321 rpm // 1.6 - 30.0 Nm



Combination data									
Motor		SD28 50Hz	SD28 50Hz	SD28 50Hz	SD28 50Hz	SD28 60Hz	SD28 60Hz	SD28 60Hz	SD28 60Hz
Phase		3	3	3	3	3	3	3	3
Poles		4	4	4	4	4	4	4	4
Frequency	Hz	50	50	50	50	60	60	60	60
Voltage	V	400/230	400/230	400/230	400/230	400/230	400/230	400/230	400/230
Nominal motor power	W	55	55	55	55	55	55	55	55
Gearbox ratio	:1	5.3	16	62	111	5.3	16	62	111
Nominal speed	rpm	264	88	23	13	321	106	27	15
Nominal torque (S1)	Nm	1.9	5.5	20.7	30.0	1.6	4.5	17.0	30.0

Motor only data			
Motor		SD28 50Hz	SD28 60Hz
Phase		3	3
Poles		4	4
Frequency	Hz	50	60
Nominal voltage	V	400/230	400/230
Nominal power	W	55	55
Nominal speed	rpm	1400	1700
Continuous torque (S1)	Nm	0.38	0.31
Weight	Kg	3.6	3.6
Stack length	mm	56	56
Motor length	mm	140	140

Motor accessories
Brake
→ 2.0 Nm
Encoder
N/A
Controller
N/A

Gearbox only data					
Part number		891042	891043	891044	891047
Ratio	:1	5.3	16	62	111
Stages		1	2	3	3
Max. continuous torque (S1) [1]	Nm	5.0	15.0	30.0	30.0
Max. intermittent torque	Nm	7.0	23.0	45.0	45.0
Efficiency	%	95	92	89	89
Max. axial load (dynamic)	N	200	200	200	200
Max. radial load, 12mm from flange	N	420	630	900	900
Weight	Kg	0.69	0.86	1.08	1.08
Gearbox length	mm	50.4	67.5	84.4	84.4
Gear material		Steel	Steel	Steel	Steel

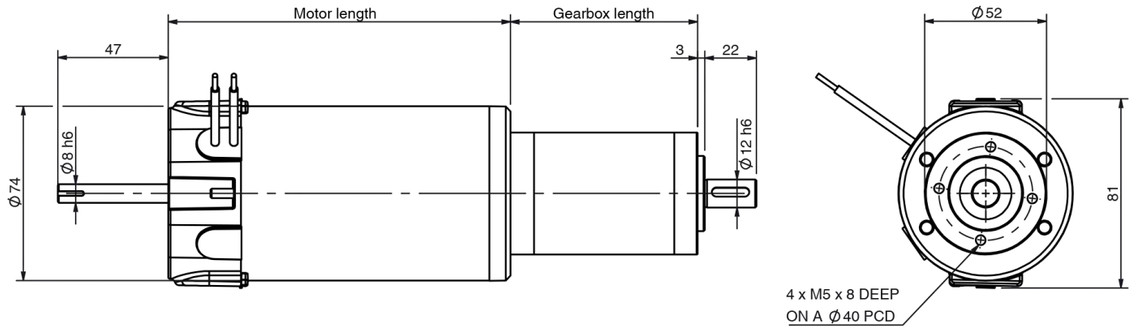
[1] S1 duty cycle based on 3000rpm input speed

Gearbox accessories
Shaft modifications
→ Various lengths and diameters
→ Keyways
→ Flats
→ Centre holes

BRx70-PGx52 PMDC planetary geared motor

12 - 48 V // 79 - 157 W // 27 - 566 rpm // 1.3 - 45.0 Nm

all dimensions in mm



Combination data									
Motor		BRx70-40	BRx70-40	BRx70-40	BRx70-40	BRx70-60	BRx70-60	BRx70-60	BRx70-60
Voltage	**V**	12 - 48	12 - 48	12 - 48	12 - 48	12 - 48	12 - 48	12 - 48	12 - 48
Nominal motor power	**W**	79	79	79	79	157	157	157	157
Gearbox ratio	**:1**	5.3	16	62	111	5.3	16	62	111
Nominal speed	**rpm**	566	188	48	27	566	188	48	27
Nominal torque (S1)	**Nm**	1.3	3.7	13.8	24.7	2.5	7.4	27.6	30.0
Intermittent torque (S2 - 15 mins)	**Nm**	2.1	6.2	23.2	41.5	4.4	13.0	45.0	45.0

Motor only data							
Part number		781092	781093	781094	781095	781096	781097
Motor		BRx70-40	BRx70-40	BRx70-40	BRx70-60	BRx70-60	BRx70-60
Nominal power	**W**	79	79	79	157	157	157
Nominal voltage	**V**	12	24	48	12	24	48
Nominal speed	**rpm**	3000	3000	3000	3000	3000	3000
Continuous torque (S1)	**Nm**	0.25	0.25	0.25	0.50	0.50	0.50
Intermittent torque (S2 - 15 minutes)	**Nm**	0.42	0.42	0.42	0.88	0.88	0.88
Weight	**Kg**	1.85	1.85	1.85	2.25	2.25	2.25
Stack length	**mm**	40	40	40	60	60	60
Motor length	**mm**	125	125	125	146	146	146

Motor accessories

Brake
- → 1.5 Nm

Encoder
- → Incremental 5-pin
- → Incremental 10-pin
- → Differential 5-pin

Controller
- → SC 50/15 controller

Gearbox only data					
Part number		891042	891043	891044	891047
Ratio	**:1**	5.3	16	62	111
Stages		1	2	3	3
Max. continuous torque (S1) [1]	**Nm**	5.0	15.0	30.0	30.0
Max. intermittent torque	**Nm**	7.0	23.0	45.0	45.0
Efficiency	**%**	95	92	89	89
Max. axial load (dynamic)	**N**	200	200	200	200
Max. radial load, 12mm from flange	**N**	420	630	900	900
Weight	**Kg**	0.69	0.86	1.08	1.08
Gearbox length	**mm**	50.4	67.5	84.4	84.4
Gear material		Steel	Steel	Steel	Steel

[1] S1 duty cycle based on 3000rpm input speed

Gearbox accessories

Shaft modifications
- → Various lengths and diameters
- → Keyways
- → Flats
- → Centre holes

Notes

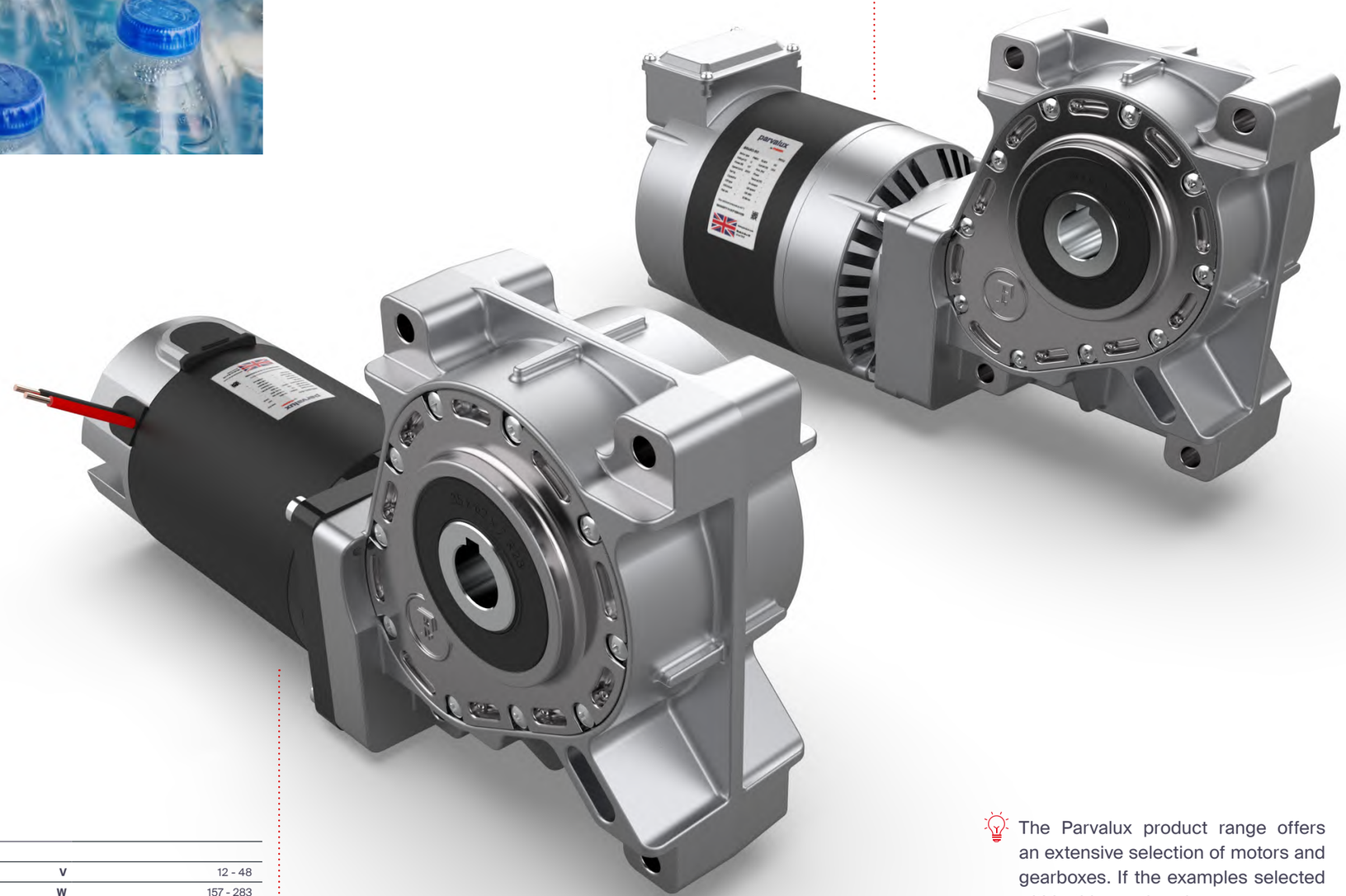


Shrink wrapping machines

Shrink wrapping systems rely on synchronised motion across film dispensers, sealing elements, and conveyor belts. Parvalux geared motors deliver the torque and timing precision required to ensure smooth film application, consistent sealing, and controlled movement through heat tunnels.

With high thermal stability and long service life, our motors are ideal for continuous operation in high-speed wrapping environments.

SD48-GB65		
Frequency	**Hz**	50 - 60
Voltage	**V**	115 - 400
Power	**W**	55 - 250
Speed	**rpm**	9 - 170
Continuous torque	**Nm**	8.6 - 93.6
Detail specification available on pages 15 - 18		



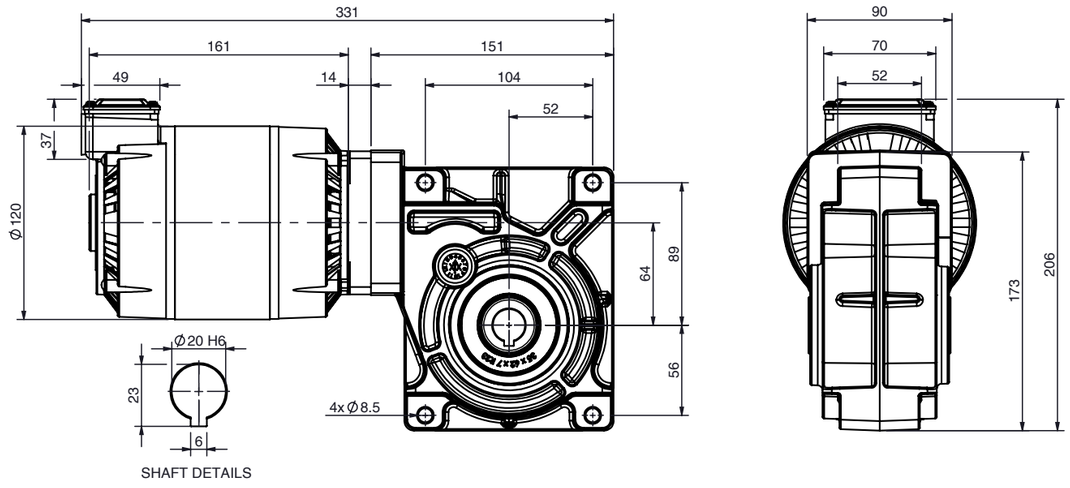
BRx90-GB65		
Voltage	**V**	12 - 48
Power	**W**	157 - 283
Speed	**rpm**	16 - 150
Nominal torque	**Nm**	8.1 - 64.8
Intermittent torque	**Nm**	19.0 - 108.0
Detail specification available on page 19		

The Parvalux product range offers an extensive selection of motors and gearboxes. If the examples selected within this section do not meet your specification please get in touch with your local sales engineer to discuss your requirements.

SD48 (1 Phase, 2 Pole)-GB65 AC right-angle geared motor

all dimensions in mm

230/115 V // 190 W // 18 - 170 rpm // 8.6 - 46.7 Nm



SHAFT DETAILS

Combination data											
Motor		SD48 50Hz	SD48 50Hz	SD48 50Hz	SD48 50Hz	SD48 50Hz	SD48 60Hz	SD48 60Hz	SD48 60Hz	SD48 60Hz	SD48 60Hz
Phase		1	1	1	1	1	1	1	1	1	1
Poles		2	2	2	2	2	2	2	2	2	2
Frequency	**Hz**	50	50	50	50	50	60	60	60	60	60
Voltage	**V**	230/115	230/115	230/115	230/115	230/115	230/115	230/115	230/115	230/115	230/115
Nominal motor power	**W**	190	190	190	190	190	190	190	190	190	190
Gearbox ratio	**:1**	20	40	80	120	160	20	40	80	120	160
Nominal speed	**rpm**	140	70	35	23	18	170	85	43	28	21
Nominal torque (S1)	**Nm**	10.5	19.7	36.3	46.7	44.6	8.6	16.2	29.9	38.4	36.7

Motor only data			
Motor		SD48 50Hz	SD48 60Hz
Phase		1	1
Poles		2	2
Frequency	**Hz**	50	60
Nominal voltage	**V**	230/115	230/115
Nominal power	**W**	190	190
Nominal speed	**rpm**	2800	3400
Continuous torque (S1)	**Nm**	0.65	0.53
Weight	**Kg**	6.5	6.5
Stack length	**mm**	56	56
Motor length	**mm**	170	170
Capacitor	**MFD**	45.0 / 180.0	45.0 / 180.0

Motor accessories

Brake
- → 2.0 Nm

Encoder
- N/A

Controller
- N/A

Gearbox only data						
Part number		854060	853270	827936	827934	827943
Ratio	**:1**	20	40	80	120	160
Max. continuous torque (S1) [2]	**Nm**	120.0	120.0	120.0	120.0	120.0
Max. intermittent torque	**Nm**	300.0	300.0	300.0	300.0	300.0
Efficiency	**%**	81	76	70	60	43
Max. axial load (dynamic)	**N**	1750	1750	1750	1750	1750
Max. radial load, 12mm from flange	**N**	2335	2335	2335	2335	2335
Weight	**Kg**	3.5	3.5	3.5	3.5	3.5
Gear material [3]		S / B	S / B	S / B	S / B	S / B

[2] S1 duty cycle based on 3000rpm input speed [3] Gear material: S = Steel / B = Bronze

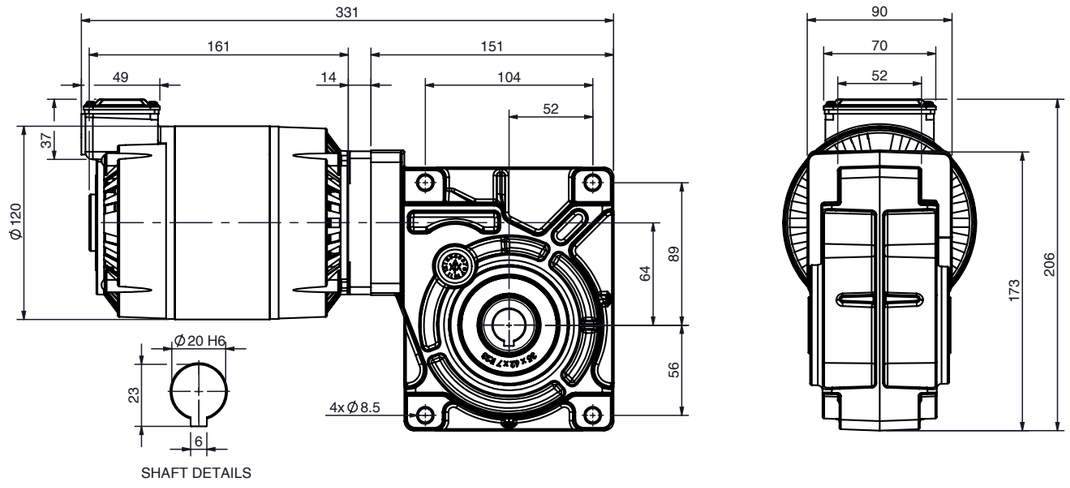
Gearbox accessories

Shaft modifications
- → Various lengths and diameters
- → Keyways
- → Flats
- → Centre holes

SD48 (1 Phase, 4 Pole)-GB65 AC right-angle geared motor

all dimensions in mm

230/115 V // 150 W // 9 - 85 rpm // 13.6 - 73.7 Nm



SHAFT DETAILS

Combination data											
Motor		SD48 50Hz	SD48 50Hz	SD48 50Hz	SD48 50Hz	SD48 50Hz	SD48 60Hz	SD48 60Hz	SD48 60Hz	SD48 60Hz	SD48 60Hz
Phase		1	1	1	1	1	1	1	1	1	1
Poles		4	4	4	4	4	4	4	4	4	4
Frequency	**Hz**	50	50	50	50	50	60	60	60	60	60
Voltage	**V**	230/115	230/115	230/115	230/115	230/115	230/115	230/115	230/115	230/115	230/115
Nominal motor power	**W**	150	150	150	150	150	150	150	150	150	150
Gearbox ratio	**:1**	20	40	80	120	160	20	40	80	120	160
Nominal speed	**rpm**	70	35	18	12	9	85	43	21	14	11
Nominal torque (S1)	**Nm**	16.6	31.1	57.3	73.7	70.4	13.6	25.6	47.2	60.7	58.0

Motor only data			
Motor		SD48 50Hz	SD48 60Hz
Phase		1	1
Poles		4	4
Frequency	**Hz**	50	60
Nominal voltage	**V**	230/115	230/115
Nominal power	**W**	150	150
Nominal speed	**rpm**	1400	1700
Continuous torque (S1)	**Nm**	1.00	0.84
Weight	**Kg**	6.5	6.5
Stack length	**mm**	56	56
Motor length	**mm**	170	170
Capacitor	**MFD**	45.0 / 180.0	45.0 / 180.0

Motor accessories

Brake
- → 2.0 Nm

Encoder
- N/A

Controller
- N/A

Gearbox only data						
Part number		854060	853270	827936	827934	827943
Ratio	**:1**	20	40	80	120	160
Max. continuous torque (S1) [2]	**Nm**	120.0	120.0	120.0	120.0	120.0
Max. intermittent torque	**Nm**	300.0	300.0	300.0	300.0	300.0
Efficiency	**%**	81	76	70	60	43
Max. axial load (dynamic)	**N**	1750	1750	1750	1750	1750
Max. radial load, 12mm from flange	**N**	2335	2335	2335	2335	2335
Weight	**Kg**	3.5	3.5	3.5	3.5	3.5
Gear material [3]		S / B	S / B	S / B	S / B	S / B

[2] S1 duty cycle based on 3000rpm input speed [3] Gear material: S = Steel / B = Bronze

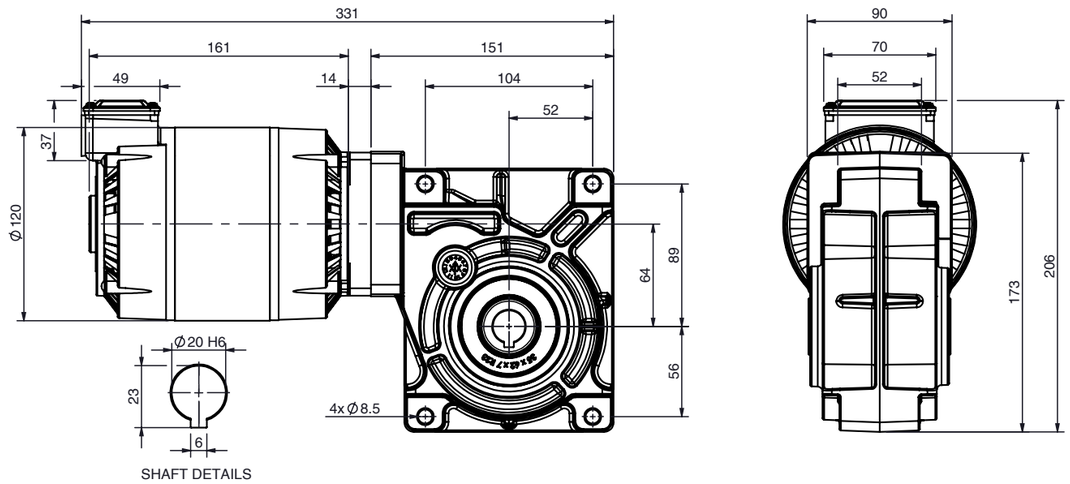
Gearbox accessories

Shaft modifications
- → Various lengths and diameters
- → Keyways
- → Flats
- → Centre holes

SD48 (3 Phase, 2 Pole)-GB65 AC right-angle geared motor

all dimensions in mm

400/230 V // 250 W // 18 - 170 rpm // 11.4 - 61.4 Nm



SHAFT DETAILS

Combination data											
Motor		SD48 50Hz	SD48 50Hz	SD48 50Hz	SD48 50Hz	SD48 50Hz	SD48 60Hz	SD48 60Hz	SD48 60Hz	SD48 60Hz	SD48 60Hz
Phase		3	3	3	3	3	3	3	3	3	3
Poles		2	2	2	2	2	2	2	2	2	2
Frequency	Hz	50	50	50	50	50	60	60	60	60	60
Voltage	V	400/230	400/230	400/230	400/230	400/230	400/230	400/230	400/230	400/230	400/230
Nominal motor power	W	250	250	250	250	250	250	250	250	250	250
Gearbox ratio	:1	20	40	80	120	160	20	40	80	120	160
Nominal speed	rpm	140	70	35	23	18	170	85	43	28	21
Nominal torque (S1)	Nm	13.8	25.9	47.7	61.4	58.7	11.4	21.3	39.3	50.6	48.3

Motor only data			
Motor		SD48 50Hz	SD48 60Hz
Phase		3	3
Poles		4	4
Frequency	Hz	50	60
Nominal voltage	V	400/230	400/230
Nominal power	W	250	250
Nominal speed	rpm	2800	3400
Continuous torque (S1)	Nm	0.85	0.70
Weight	Kg	6.5	6.5
Stack length	mm	56	56
Motor length	mm	170	170

Motor accessories

Brake
- → 2.0 Nm

Encoder
- N/A

Controller
- N/A

Gearbox only data						
Part number		854060	853270	827936	827934	827943
Ratio	:1	20	40	80	120	160
Max. continuous torque (S1) [2]	Nm	120.0	120.0	120.0	120.0	120.0
Max. intermittent torque	Nm	300.0	300.0	300.0	300.0	300.0
Efficiency	%	81	76	70	60	43
Max. axial load (dynamic)	N	1750	1750	1750	1750	1750
Max. radial load, 12mm from flange	N	2335	2335	2335	2335	2335
Weight	Kg	3.5	3.5	3.5	3.5	3.5
Gear material [3]		S / B	S / B	S / B	S / B	S / B

[2] S1 duty cycle based on 3000rpm input speed [3] Gear material: S = Steel / B = Bronze

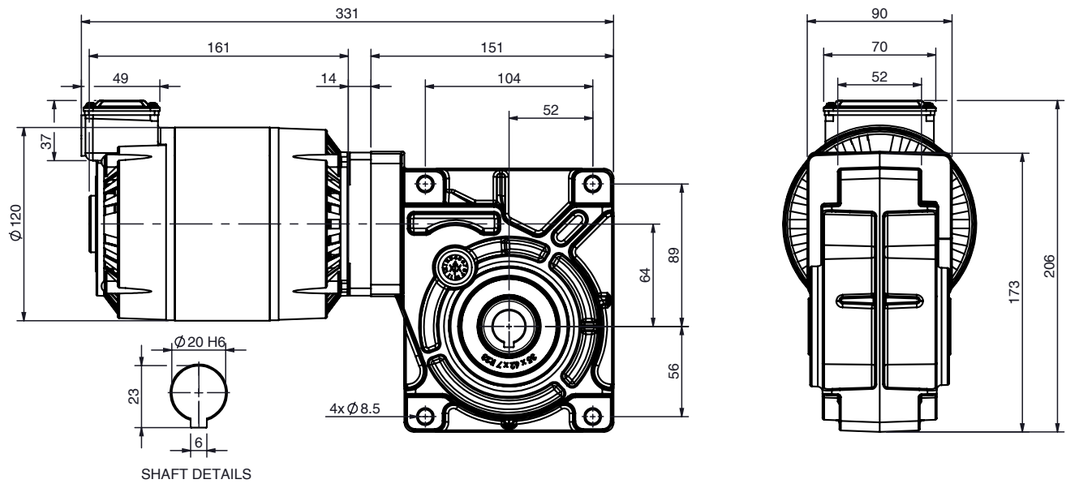
Gearbox accessories

Shaft modifications
- → Various lengths and diameters
- → Keyways
- → Flats
- → Centre holes

SD48 (3 Phase, 4 Pole)-GB65 AC right-angle geared motor

all dimensions in mm

400/230 V // 190 W // 9 - 85 rpm // 17.3 - 93.3 Nm



SHAFT DETAILS

Combination data											
Motor		SD48 50Hz	SD48 50Hz	SD48 50Hz	SD48 50Hz	SD48 50Hz	SD48 60Hz	SD48 60Hz	SD48 60Hz	SD48 60Hz	SD48 60Hz
Phase		3	3	3	3	3	3	3	3	3	3
Poles		4	4	4	4	4	4	4	4	4	4
Frequency	Hz	50	50	50	50	50	60	60	60	60	60
Voltage	V	400/230	400/230	400/230	400/230	400/230	400/230	400/230	400/230	400/230	400/230
Nominal motor power	W	190	190	190	190	190	190	190	190	190	190
Gearbox ratio	:1	20	40	80	120	160	20	40	80	120	160
Nominal speed	rpm	70	35	18	12	9	85	43	21	14	11
Nominal torque (S1)	Nm	21.0	39.4	72.6	93.3	89.2	17.3	32.4	59.8	76.8	73.4

Motor only data			
Motor		SD48 50Hz	SD48 60Hz
Phase		3	3
Poles		4	4
Frequency	Hz	50	60
Nominal voltage	V	400/230	400/230
Nominal power	W	190	190
Nominal speed	rpm	1400	1700
Continuous torque (S1)	Nm	1.30	1.07
Weight	Kg	6.5	6.5
Stack length	mm	56	56
Motor length	mm	170	170

Motor accessories

Brake
- → 2.0 Nm

Encoder
- N/A

Controller
- N/A

Gearbox only data						
Part number		854060	853270	827936	827934	827943
Ratio	:1	20	40	80	120	160
Max. continuous torque (S1) [2]	Nm	120.0	120.0	120.0	120.0	120.0
Max. intermittent torque	Nm	300.0	300.0	300.0	300.0	300.0
Efficiency	%	81	76	70	60	43
Max. axial load (dynamic)	N	1750	1750	1750	1750	1750
Max. radial load, 12mm from flange	N	2335	2335	2335	2335	2335
Weight	Kg	3.5	3.5	3.5	3.5	3.5
Gear material [3]		S / B	S / B	S / B	S / B	S / B

[2] S1 duty cycle based on 3000rpm input speed [3] Gear material: S = Steel / B = Bronze

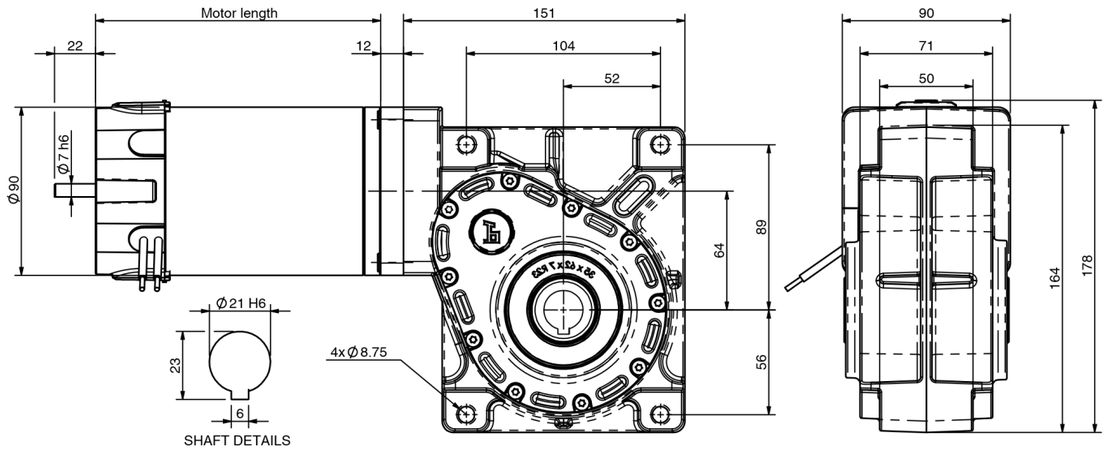
Gearbox accessories

Shaft modifications
- → Various lengths and diameters
- → Keyways
- → Flats
- → Centre holes

BRx90-GB65 PMDC right-angle geared motor

12 - 48 V // 157 - 283 W // 19 - 150 rpm // 8.1 - 103.2 Nm

all dimensions in mm



Combination data											
Motor		BRx90-50	BRx90-50	BRx90-50	BRx90-50	BRx90-50	BRx90-75	BRx90-75	BRx90-75	BRx90-75	BRx90-75
Voltage	V	12 - 48	12 - 48	12 - 48	12 - 48	12 - 48	12 - 48	12 - 48	12 - 48	12 - 48	12 - 48
Nominal motor power	W	157 - 210	157 - 210	157 - 210	157 - 210	157 - 210	236 - 283	236 - 283	236 - 283	236 - 283	236 - 283
Gearbox ratio	:1	20	40	80	120	160	20	40	80	120	160
Nominal speed	rpm	150	75	38	25	19	125 - 150	63 - 75	31 - 38	21 - 25	16 - 19
Nominal torque (S1)	Nm	8.1 - 10.9	15.2 - 20.4	28.0 - 37.5	36.0 - 48.2	34.4 - 46.1	14.6	27.4	50.4	64.8	61.9
Intermittent torque (S2 - 15 mins)	Nm	19.0	35.6	65.5	84.2	80.5	24.3	45.6	84.0	108.0	103.2

Motor only data							
Part number		781102	781103	781104	781106	781107	781108
Motor		BRx90-50	BRx90-50	BRx90-50	BRx90-75	BRx90-75	BRx90-75
Nominal power	W	157	210	210	236	283	283
Nominal voltage	V	12	24	48	12	24	48
Nominal speed	rpm	3000	3000	3000	2500	3000	3000
Continuous torque (S1)	Nm	0.50	0.67	0.67	0.90	0.90	0.90
Intermittent torque (S2 - 15 mins)	Nm	1.17	1.17	1.17	1.50	1.50	1.50
Weight	Kg	3.60	3.60	3.60	4.00	4.00	4.00
Stack length	mm	50	50	50	75	75	75
Length	mm	153	153	153	183	183	183

Gearbox only data						
Part number		854060	853270	827936	827934	827943
Ratio	:1	20	40	80	120	160
Max. continuous torque (S1) [2]	Nm	120.0	120.0	120.0	120.0	120.0
Max. intermittent torque	Nm	300.0	300.0	300.0	300.0	300.0
Efficiency	%	81	76	70	60	43
Max. axial load (dynamic)	N	1750	1750	1750	1750	1750
Max. radial load, 12mm from flange	N	2335	2335	2335	2335	2335
Weight	Kg	3.5	3.5	3.5	3.5	3.5
Gear material [3]		S / B	S / B	S / B	S / B	S / B

[2] S1 duty cycle based on 3000rpm input speed [3] Gear material: S = Steel / B = Bronze

Motor accessories

Brake
- → 1.5 Nm

Encoder
- → Incremental 5-pin
- → Incremental 10-pin
- → Differential 5-pin

Controller
- → SC 50/15 controller

Gearbox accessories

Shaft modifications
- → Various lengths and diameters
- → Keyways
- → Flats
- → Centre holes

Notes

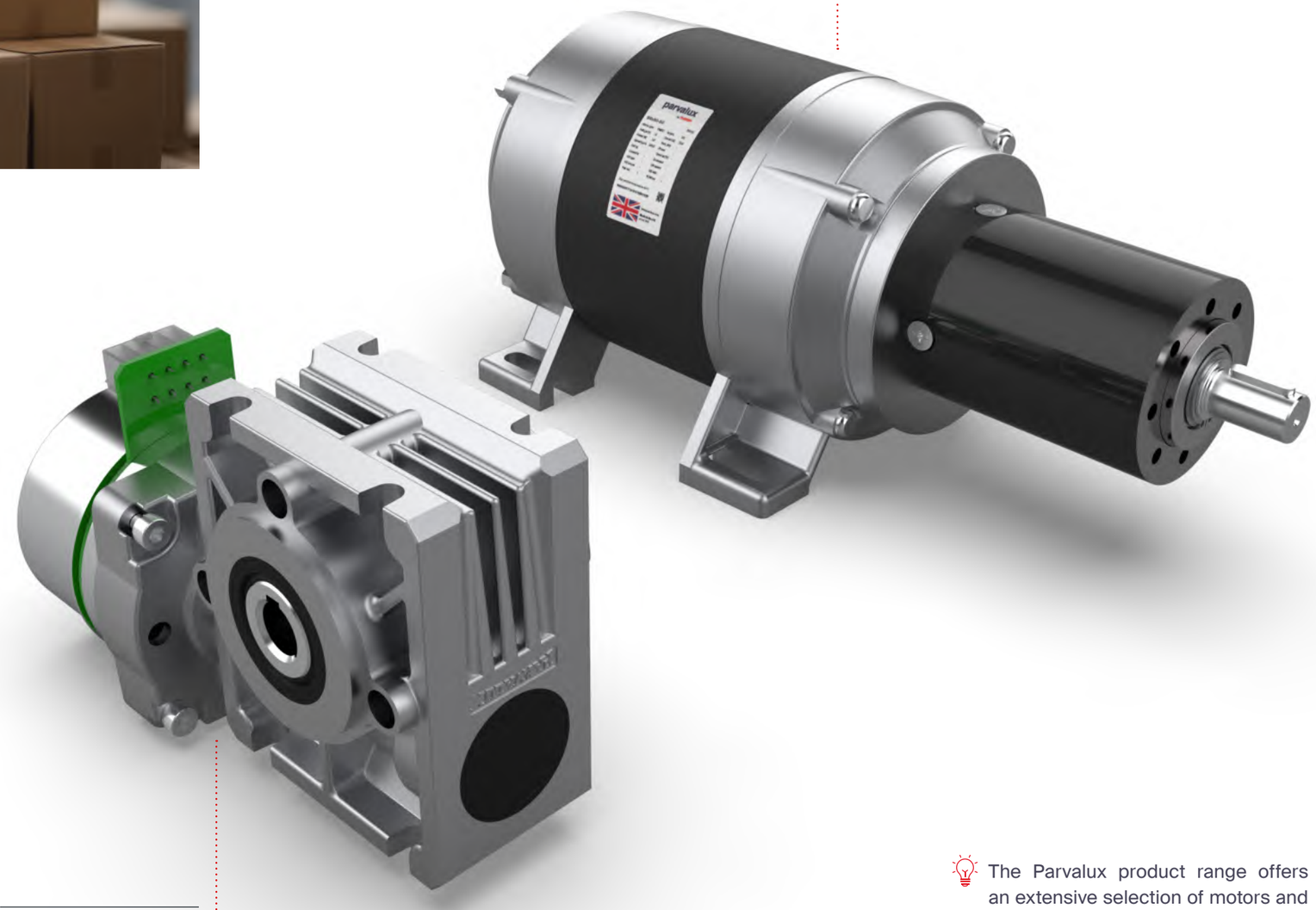


On-demand packaging

Parvalux electric motors play a crucial role in on-demand packaging machines by powering key mechanical components that automate the packaging process. They drive conveyor belts, rollers, cutting blades, sealing units, and folding mechanisms with precision and efficiency.

By enabling real-time adjustments in speed, torque, and positioning, our solutions allow packaging machines to adapt quickly to different product sizes and packaging formats, ensuring consistent quality and minimal material waste.

SD28-PGx52		
Frequency	**Hz**	50 - 60
Voltage	**V**	115 - 400
Power	**W**	55 - 120
Speed	**rpm**	13 - 642
Nominal torque	**Nm**	1.4 - 30.0
Detail specification available on pages 23 - 26		



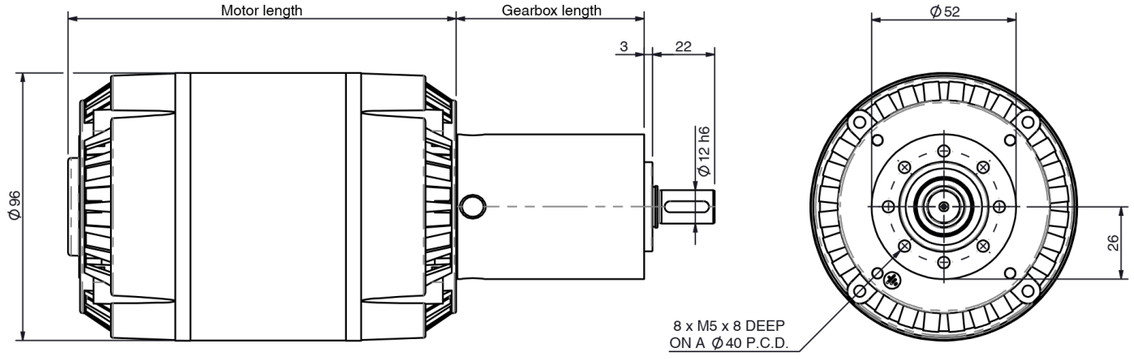
EC60 flat-GB28		
Voltage	**V**	24
Power	**W**	100
Speed	**rpm**	62 - 249
Nominal torque	**Nm**	3.0 - 5.0
Detail specification available on page 27		

The Parvalux product range offers an extensive selection of motors and gearboxes. If the examples selected within this section do not meet your specification please get in touch with your local sales engineer to discuss your requirements.

SD28 (1 Phase, 2 Pole)-PGx52 AC planetary geared motor

230/115 V // 100 W // 25 - 642 rpm // 1.4 - 30.0 Nm

all dimensions in mm



Combination data									
Motor		SD28 50Hz	SD28 50Hz	SD28 50Hz	SD28 50Hz	SD28 60Hz	SD28 60Hz	SD28 60Hz	SD28 60Hz
Phase		1	1	1	1	1	1	1	1
Poles		2	2	2	2	2	2	2	2
Frequency	**Hz**	50	50	50	50	60	60	60	60
Voltage	**V**	230/115	230/115	230/115	230/115	230/115	230/115	230/115	230/115
Nominal motor power	**W**	100	100	100	100	100	100	100	100
Gearbox ratio	**:1**	5.3	16	62	111	5.3	16	62	111
Nominal speed	**rpm**	528	175	45	25	642	213	55	31
Nominal torque (S1)	**Nm**	1.7	5.0	18.8	30.0	1.4	4.1	15.5	27.7

Motor only data			
Motor		SD28 50Hz	SD28 60Hz
Phase		1	1
Poles		2	2
Frequency	**Hz**	50	60
Nominal voltage	**V**	230/115	230/115
Nominal power	**W**	100	100
Nominal speed	**rpm**	2800	3400
Continuous torque (S1)	**Nm**	0.34	0.28
Weight	**Kg**	3.6	3.6
Stack length	**mm**	56	56
Motor length	**mm**	140	140
Capacitor	**MFD**	6.0 / 20.0	6.0 / 20.0

Motor accessories

Brake
- → 2.0 Nm

Encoder
N/A

Controller
N/A

Gearbox only data					
Part number		891042	891043	891044	891047
Ratio	**:1**	5.3	16	62	111
Stages		1	2	3	3
Max. continuous torque (S1) [1]	**Nm**	5.0	15.0	30.0	30.0
Max. intermittent torque	**Nm**	7.0	23.0	45.0	45.0
Efficiency	**%**	95	92	89	89
Max. axial load (dynamic)	**N**	200	200	200	200
Max. radial load, 12mm from flange	**N**	420	630	900	900
Weight	**Kg**	0.69	0.86	1.08	1.08
Gearbox length	**mm**	50.4	67.5	84.4	84.4
Gear material		Steel	Steel	Steel	Steel

[1] S1 duty cycle based on 3000rpm input speed

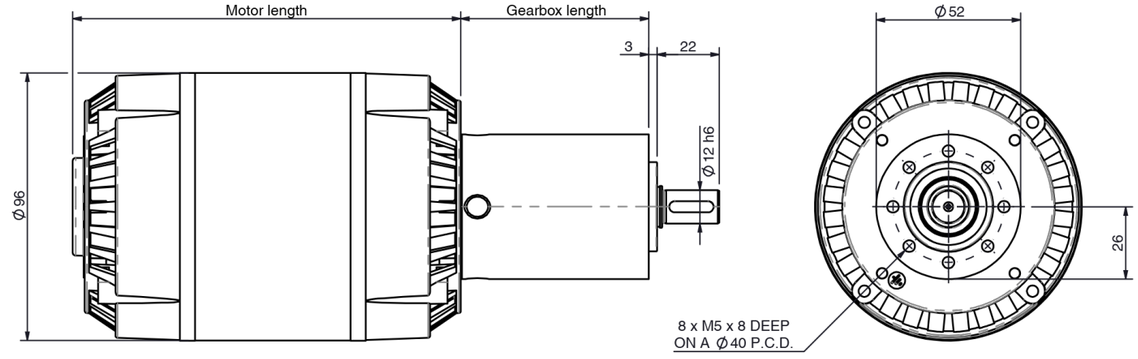
Gearbox accessories

Shaft modifications
- → Various lengths and diameters
- → Keyways
- → Flats
- → Centre holes

SD28 (1 Phase, 4 Pole)-PGx52 AC planetary geared motor

230/115 V // 55 W // 13 - 321 rpm // 1.6 - 30.0 Nm

all dimensions in mm



Combination data									
Motor		SD28 50Hz	SD28 50Hz	SD28 50Hz	SD28 50Hz	SD28 60Hz	SD28 60Hz	SD28 60Hz	SD28 60Hz
Phase		1	1	1	1	1	1	1	1
Poles		4	4	4	4	4	4	4	4
Frequency	**Hz**	50	50	50	50	60	60	60	60
Voltage	**V**	230/115	230/115	230/115	230/115	230/115	230/115	230/115	230/115
Nominal motor power	**W**	55	55	55	55	55	55	55	55
Gearbox ratio	**:1**	5.3	16	62	111	5.3	16	62	111
Nominal speed	**rpm**	264	88	23	13	321	106	27	15
Nominal torque (S1)	**Nm**	1.9	5.5	20.7	30.0	1.6	4.5	17.0	30.0

Motor only data			
Motor		SD28 50Hz	SD28 60Hz
Phase		1	1
Poles		4	4
Frequency	**Hz**	50	60
Nominal voltage	**V**	230/115	230/115
Nominal power	**W**	55	55
Nominal speed	**rpm**	1400	1700
Continuous torque (S1)	**Nm**	0.38	0.31
Weight	**Kg**	3.6	3.6
Stack length	**mm**	56	56
Motor length	**mm**	140	140
Capacitor	**MFD**	6.0 / 20.0	4.0 / 14.0

Motor accessories

Brake
- → 2.0 Nm

Encoder
N/A

Controller
N/A

Gearbox only data					
Part number		891042	891043	891044	891047
Ratio	**:1**	5.3	16	62	111
Stages		1	2	3	3
Max. continuous torque (S1) [1]	**Nm**	5.0	15.0	30.0	30.0
Max. intermittent torque	**Nm**	7.0	23.0	45.0	45.0
Efficiency	**%**	95	92	89	89
Max. axial load (dynamic)	**N**	200	200	200	200
Max. radial load, 12mm from flange	**N**	420	630	900	900
Weight	**Kg**	0.69	0.86	1.08	1.08
Gearbox length	**mm**	50.4	67.5	84.4	84.4
Gear material		Steel	Steel	Steel	Steel

[1] S1 duty cycle based on 3000rpm input speed

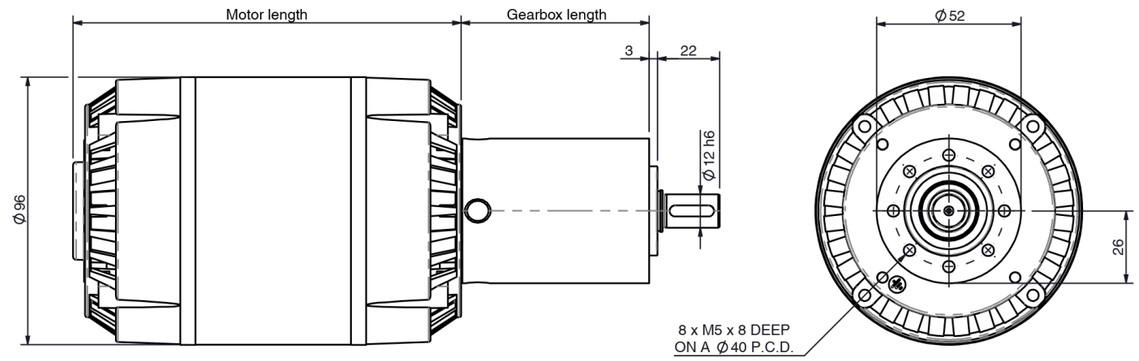
Gearbox accessories

Shaft modifications
- → Various lengths and diameters
- → Keyways
- → Flats
- → Centre holes

SD28 (3 Phase, 2 Pole)-PGx52 AC planetary geared motor

all dimensions in mm

400/230 V // 120 W // 25 - 642 rpm // 1.7 - 30.0 Nm



Combination data									
Motor		SD28 50Hz	SD28 50Hz	SD28 50Hz	SD28 50Hz	SD28 60Hz	SD28 60Hz	SD28 60Hz	SD28 60Hz
Phase		3	3	3	3	3	3	3	3
Poles		2	2	2	2	2	2	2	2
Frequency	Hz	50	50	50	50	60	60	60	60
Voltage	V	400/230	400/230	400/230	400/230	400/230	400/230	400/230	400/230
Nominal motor power	W	120	120	120	120	120	120	120	120
Gearbox ratio	:1	5.3	16	62	111	5.3	16	62	111
Nominal speed	rpm	528	175	45	25	642	213	55	31
Nominal torque (S1)	Nm	2.1	6.0	22.6	30.0	1.7	5.0	18.6	30.0

Motor only data			
Motor		SD28 50Hz	SD28 60Hz
Phase		3	3
Poles		4	4
Frequency	Hz	50	60
Nominal voltage	V	400/230	400/230
Nominal power	W	120	120
Nominal speed	rpm	2800	3400
Continuous torque (S1)	Nm	0.41	0.34
Weight	Kg	3.6	3.6
Stack length	mm	56	56
Motor length	mm	140	140

Motor accessories

Brake
- → 2.0 Nm

Encoder
N/A

Controller
N/A

Gearbox only data					
Part number		891042	891043	891044	891047
Ratio	:1	5.3	16	62	111
Stages		1	2	3	3
Max. continuous torque (S1) [1]	Nm	5.0	15.0	30.0	30.0
Max. intermittent torque	Nm	7.0	23.0	45.0	45.0
Efficiency	%	95	92	89	89
Max. axial load (dynamic)	N	200	200	200	200
Max. radial load, 12mm from flange	N	420	630	900	900
Weight	Kg	0.69	0.86	1.08	1.08
Gearbox length	mm	50.4	67.5	84.4	84.4
Gear material		Steel	Steel	Steel	Steel

[1] S1 duty cycle based on 3000rpm input speed

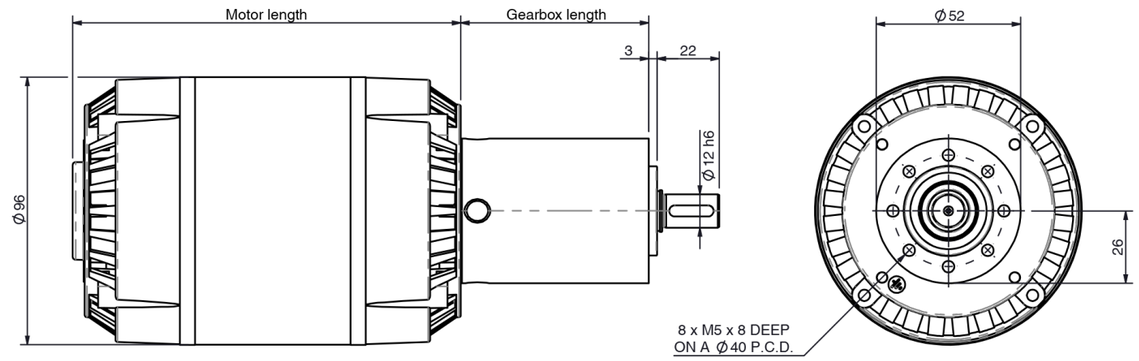
Gearbox accessories

Shaft modifications
- → Various lengths and diameters
- → Keyways
- → Flats
- → Centre holes

SD28 (3 Phase, 4 Pole)-PGx52 AC planetary geared motor

all dimensions in mm

400/230 V // 55 W // 13 - 321 rpm // 1.6 - 30.0 Nm



Combination data									
Motor		SD28 50Hz	SD28 50Hz	SD28 50Hz	SD28 50Hz	SD28 60Hz	SD28 60Hz	SD28 60Hz	SD28 60Hz
Phase		3	3	3	3	3	3	3	3
Poles		4	4	4	4	4	4	4	4
Frequency	Hz	50	50	50	50	60	60	60	60
Voltage	V	400/230	400/230	400/230	400/230	400/230	400/230	400/230	400/230
Nominal motor power	W	55	55	55	55	55	55	55	55
Gearbox ratio	:1	5.3	16	62	111	5.3	16	62	111
Nominal speed	rpm	264	88	23	13	321	106	27	15
Nominal torque (S1)	Nm	1.9	5.5	20.7	30.0	1.6	4.5	17.0	30.0

Motor only data			
Motor		SD28 50Hz	SD28 60Hz
Phase		3	3
Poles		4	4
Frequency	Hz	50	60
Nominal voltage	V	400/230	400/230
Nominal power	W	55	55
Nominal speed	rpm	1400	1700
Continuous torque (S1)	Nm	0.38	0.31
Weight	Kg	3.6	3.6
Stack length	mm	56	56
Motor length	mm	140	140

Motor accessories

Brake
- → 2.0 Nm

Encoder
N/A

Controller
N/A

Gearbox only data					
Part number		891042	891043	891044	891047
Ratio	:1	5.3	16	62	111
Stages		1	2	3	3
Max. continuous torque (S1) [1]	Nm	5.0	15.0	30.0	30.0
Max. intermittent torque	Nm	7.0	23.0	45.0	45.0
Efficiency	%	95	92	89	89
Max. axial load (dynamic)	N	200	200	200	200
Max. radial load, 12mm from flange	N	420	630	900	900
Weight	Kg	0.69	0.86	1.08	1.08
Gearbox length	mm	50.4	67.5	84.4	84.4
Gear material		Steel	Steel	Steel	Steel

[1] S1 duty cycle based on 3000rpm input speed

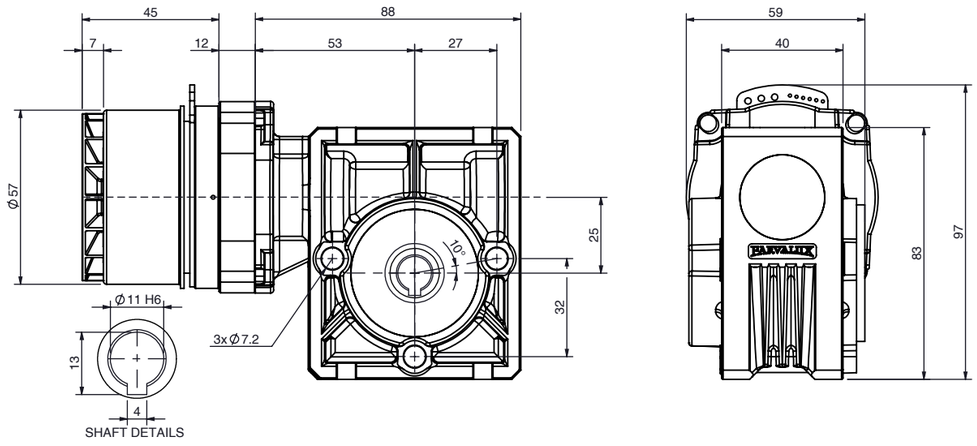
Gearbox accessories

Shaft modifications
- → Various lengths and diameters
- → Keyways
- → Flats
- → Centre holes

EC60 flat-GB28 BLDC right-angle geared motor

24 V // 100 W // 62 - 249 rpm // 3.0 - 5.0 Nm

all dimensions in mm



Combination data						
Motor		EC60 flat	EC60 flat	EC60 flat	EC60 flat	EC60 flat
Voltage	**V**	24	24	24	24	24
Nominal motor power	**W**	100	100	100	100	100
Gearbox ratio	**:1**	15	25	30	50	60
Nominal speed	**rpm**	249	149	124	75	62
Nominal torque (S1)	**Nm**	3.1	4.8	5.0	5.0	5.0

Motor only data		
Part number		625855
Motor		EC60 flat
Nominal power	**W**	100
Nominal voltage	**V**	24
Nominal speed	**rpm**	3730
Continuous torque (S1)	**Nm**	0.26
Weight	**Kg**	0.36
Motor length	**mm**	38

Motor accessories

Brake
- → 1.5 Nm

Encoder
- → Incremental 5-pin
- → Incremental 10-pin
- → Differential 5-pin

Controller
- → SC 50/15 controller

Gearbox only data						
Part number		735904	-	735906	-	735907
Ratio	**:1**	15	25	30	50	60
Max. continuous torque (S1) [1]	**Nm**	5.0	5.0	5.0	5.0	5.0
Max. intermittent torque	**Nm**	8.0	8.0	8.0	8.0	8.0
Efficiency	**%**	75	70	65	50	45
Max. axial load (dynamic)	**N**	300	300	300	300	300
Max. radial load, 12mm from flange	**N**	400	400	400	400	400
Weight	**Kg**	0.83	0.83	0.83	0.83	0.83
Gear material		Bronze	Bronze	Bronze	Bronze	Bronze

[1] S1 duty cycle based on 3000rpm input speed

Gearbox accessories

Shaft modifications
- → Various lengths and diameters
- → Keyways
- → Flats
- → Centre holes

Notes

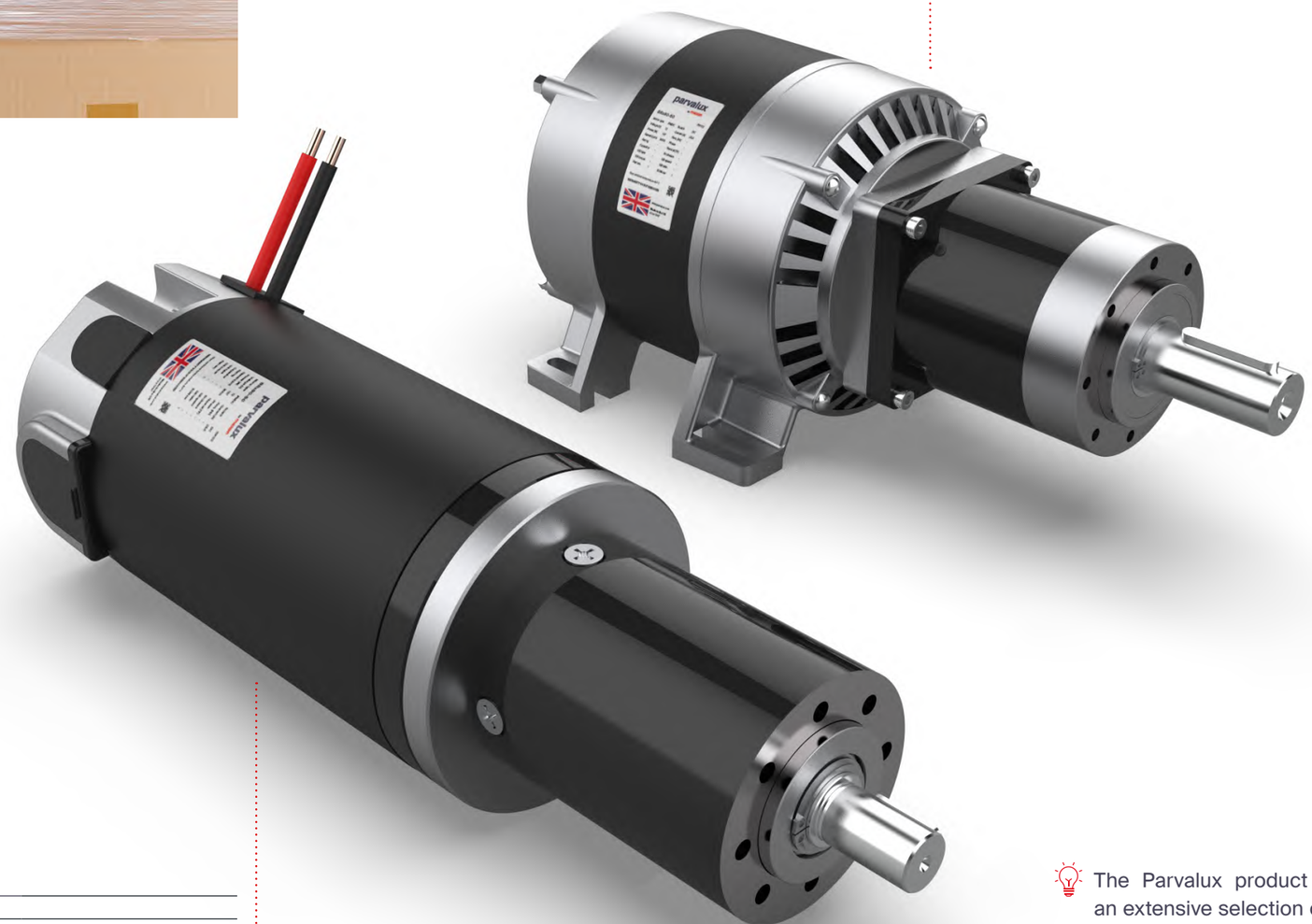


Case sealing machines

Case sealing machines require dependable motor performance to apply consistent pressure and cleanly seal cartons with tape or glue. Parvalux motors drive flap folders, tape heads, and side conveyors with quiet efficiency and long-term reliability.

Compact and easy to integrate, our motor solutions are designed to handle high output with minimal maintenance - making them ideal for busy packing stations that run for extended periods of time.

BRx70-PGx52		
Voltage	**V**	12 - 48
Power	**W**	79 - 157
Speed	**rpm**	27 - 566
Nominal torque	**Nm**	1.3 - 30.0
Intermittent torque	**Nm**	2.3 - 45.0
Detail specification available on page 35		



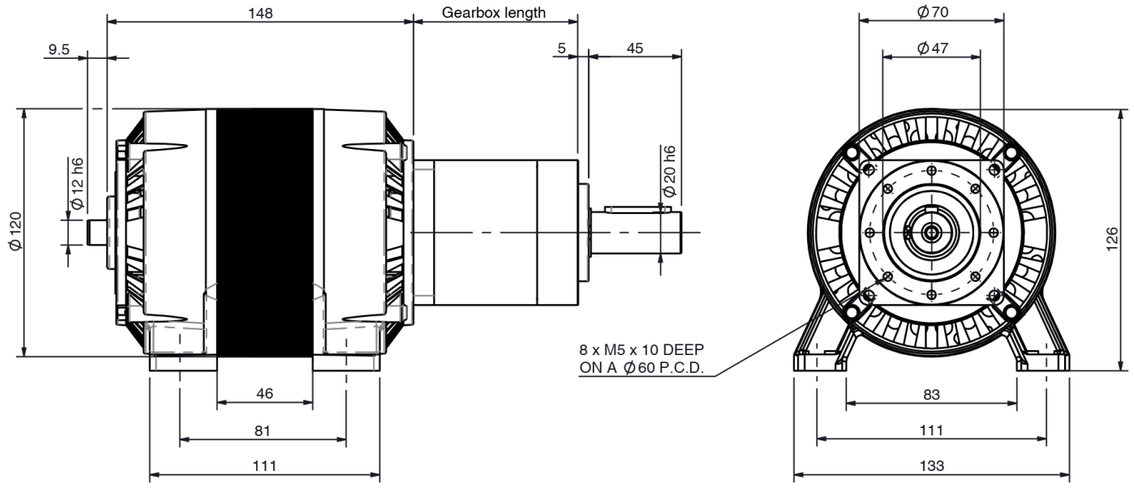
SD13-PGx70		
Frequency	**Hz**	50 - 60
Voltage	**V**	115 - 400
Power	**W**	100 - 190
Speed	**rpm**	32 - 872
Continuous torque	**Nm**	1.9 - 30.0
Detail specification available on pages 31 - 34		

The Parvalux product range offers an extensive selection of motors and gearboxes. If the examples selected within this section do not meet your specification please get in touch with your local sales engineer to discuss your requirements.

SD13 (1 Phase, 2 Pole)-PGx70 AC planetary geared motor

all dimensions in mm

230/115 V // 150 W // 64 - 872 rpm // 1.6 - 20.7 Nm



Combination data											
Motor		SD13 50Hz	SD13 50Hz	SD13 50Hz	SD13 50Hz	SD13 50Hz	SD13 60Hz	SD13 60Hz	SD13 60Hz	SD13 60Hz	SD13 60Hz
Phase		1	1	1	1	1	1	1	1	1	1
Poles		2	2	2	2	2	2	2	2	2	2
Frequency	**Hz**	50	50	50	50	50	60	60	60	60	60
Voltage	**V**	230/115	230/115	230/115	230/115	230/115	230/115	230/115	230/115	230/115	230/115
Nominal motor power	**W**	150	150	150	150	150	150	150	150	150	150
Gearbox ratio	**:1**	3.9	6.6	16	21	44	3.9	6.6	16	21	44
Nominal speed	**rpm**	718	424	175	133	64	872	515	213	162	77
Nominal torque (S1)	**Nm**	1.9	3.2	7.5	9.9	20.7	1.6	2.6	6.2	8.1	17.1

Motor only data			
Motor		SD13 50Hz	SD13 60Hz
Phase		1	1
Poles		2	2
Frequency	**Hz**	50	60
Nominal voltage	**V**	230/115	230/115
Nominal power	**W**	150	150
Nominal speed	**rpm**	2600	3400
Continuous torque (S1)	**Nm**	0.51	0.42
Weight	**Kg**	5.4	5.4
Stack length	**mm**	46	46
Motor length	**mm**	148	148
Capacitor	**MFD**	8.4 / 28.0	8.4 / 30.0

Motor accessories

Brake
- → 2.0 Nm

Encoder
- N/A

Controller
- N/A

Gearbox only data						
Part number		891049	-	891050	891051	-
Ratio	**:1**	3.9	6.6	16	21	44
Stages		1	1	2	2	2
Max. continuous torque (S1) [1]	**Nm**	10.0	10.0	30.0	30.0	30.0
Max. intermittent torque	**Nm**	12.5	12.5	37.5	37.5	37.5
Efficiency	**%**	95	95	92	92	92
Max. axial load (dynamic)	**N**	825	825	825	825	825
Max. radial load, 12mm from flange	**N**	1000	1000	1000	1000	1000
Weight	**Kg**	1.11	1.11	1.45	1.45	1.45
Gearbox length	**mm**	58.0	58.0	79.9	79.9	79.9
Gear material		Steel	Steel	Steel	Steel	Steel

[1] S1 duty cycle based on 3000rpm input speed

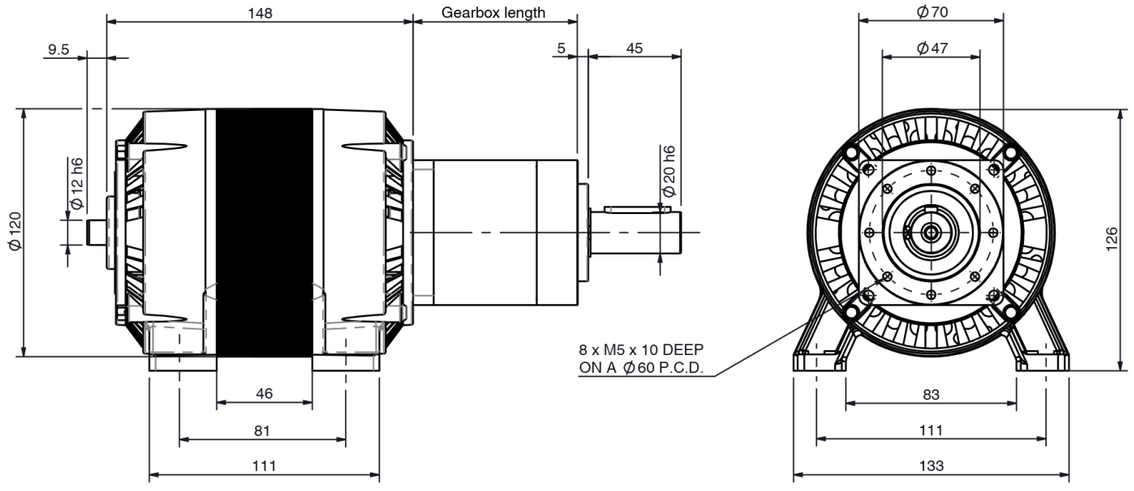
Gearbox accessories

Shaft modifications
- → Various lengths and diameters
- → Keyways
- → Flats
- → Centre holes

SD13 (1 Phase, 4 Pole)-PGx70 AC planetary geared motor

all dimensions in mm

230/115 V // 100 W // 32 - 436 rpm // 2.1 - 27.6 Nm



Combination data											
Motor		SD13 50Hz	SD13 50Hz	SD13 50Hz	SD13 50Hz	SD13 50Hz	SD13 60Hz	SD13 60Hz	SD13 60Hz	SD13 60Hz	SD13 60Hz
Phase		1	1	1	1	1	1	1	1	1	1
Poles		4	4	4	4	4	4	4	4	4	4
Frequency	**Hz**	50	50	50	50	50	60	60	60	60	60
Voltage	**V**	230/115	230/115	230/115	230/115	230/115	230/115	230/115	230/115	230/115	230/115
Nominal motor power	**W**	100	100	100	100	100	100	100	100	100	100
Gearbox ratio	**:1**	3.9	6.6	16	21	44	3.9	6.6	16	21	44
Nominal speed	**rpm**	359	212	88	67	32	436	258	106	81	39
Nominal torque (S1)	**Nm**	2.5	4.3	10.0	13.2	27.6	2.1	3.5	8.3	10.9	22.7

Motor only data			
Motor		SD13 50Hz	SD13 60Hz
Phase		1	1
Poles		4	4
Frequency	**Hz**	50	60
Nominal voltage	**V**	230/115	230/115
Nominal power	**W**	100	100
Nominal speed	**rpm**	1400	1700
Continuous torque (S1)	**Nm**	0.68	0.56
Weight	**Kg**	5.4	5.4
Stack length	**mm**	46	46
Motor length	**mm**	148	148
Capacitor	**MFD**	6.0 / 28.0	6.0 / 24.0

Motor accessories

Brake
- → 2.0 Nm

Encoder
- N/A

Controller
- N/A

Gearbox only data						
Part number		891049	-	891050	891051	-
Ratio	**:1**	3.9	6.6	16	21	44
Stages		1	1	2	2	2
Max. continuous torque (S1) [1]	**Nm**	10.0	10.0	30.0	30.0	30.0
Max. intermittent torque	**Nm**	12.5	12.5	37.5	37.5	37.5
Efficiency	**%**	95	95	92	92	92
Max. axial load (dynamic)	**N**	825	825	825	825	825
Max. radial load, 12mm from flange	**N**	1000	1000	1000	1000	1000
Weight	**Kg**	1.11	1.11	1.45	1.45	1.45
Gearbox length	**mm**	58.0	58.0	79.9	79.9	79.9
Gear material		Steel	Steel	Steel	Steel	Steel

[1] S1 duty cycle based on 3000rpm input speed

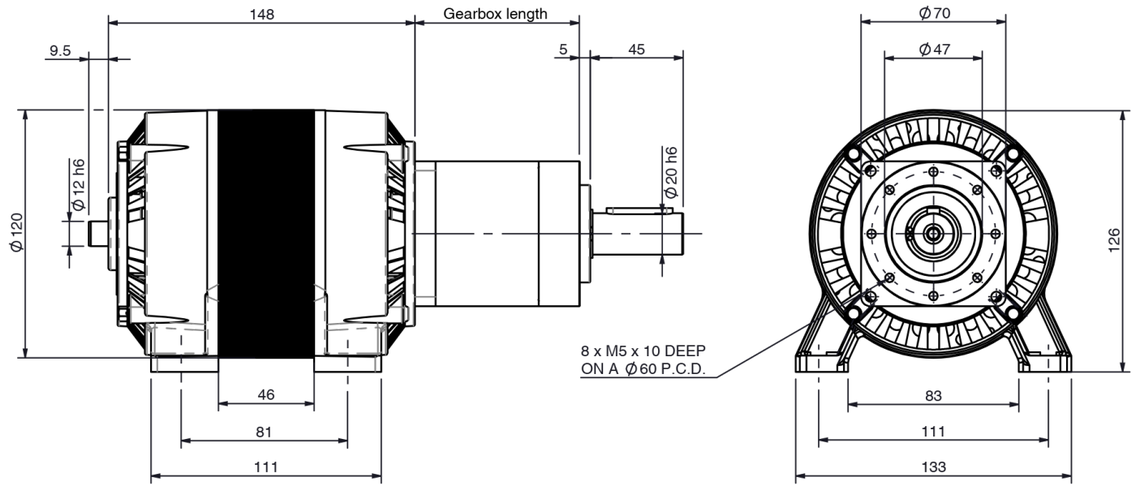
Gearbox accessories

Shaft modifications
- → Various lengths and diameters
- → Keyways
- → Flats
- → Centre holes

SD13 (3 Phase, 2 Pole)-PGx70 AC planetary geared motor

400/230 V // 190 W // 64 - 872 rpm // 2.0 - 26.2 Nm

all dimensions in mm



Combination data											
Motor		SD13 50Hz	SD13 50Hz	SD13 50Hz	SD13 50Hz	SD13 50Hz	SD13 60Hz	SD13 60Hz	SD13 60Hz	SD13 60Hz	SD13 60Hz
Phase		3	3	3	3	3	3	3	3	3	3
Poles		2	2	2	2	2	2	2	2	2	2
Frequency	Hz	50	50	50	50	50	60	60	60	60	60
Voltage	V	400/230	400/230	400/230	400/230	400/230	400/230	400/230	400/230	400/230	400/230
Nominal motor power	W	190	190	190	190	190	190	190	190	190	190
Gearbox ratio	:1	3.9	6.6	16	21	44	3.9	6.6	16	21	44
Nominal speed	rpm	718	424	175	133	64	872	515	213	162	77
Nominal torque (S1)	Nm	2.4	4.1	9.8	12.5	26.2	2.0	3.3	8.1	10.3	21.6

Motor only data			
Motor		SD13 50Hz	SD13 60Hz
Phase		3	3
Poles		4	4
Frequency	Hz	50	60
Nominal voltage	V	400/230	40/230
Nominal power	W	190	190
Nominal speed	rpm	2800	3400
Continuous torque (S1)	Nm	0.65	0.53
Weight	Kg	5.4	5.4
Stack length	mm	46	46
Motor length	mm	148	148

Motor accessories

Brake
- → 2.0 Nm

Encoder
- N/A

Controller
- N/A

Gearbox only data						
Part number		891049	-	891050	891051	-
Ratio	:1	3.9	6.6	16	21	44
Stages		1	1	2	2	2
Max. continuous torque (S1) [1]	Nm	10.0	10.0	30.0	30.0	30.0
Max. intermittent torque	Nm	12.5	12.5	37.5	37.5	37.5
Efficiency	%	95	95	92	92	92
Max. axial load (dynamic)	N	825	825	825	825	825
Max. radial load, 12mm from flange	N	1000	1000	1000	1000	1000
Weight	Kg	1.11	1.11	1.45	1.45	1.45
Gearbox length	mm	58.0	58.0	79.9	79.9	79.9
Gear material		Steel	Steel	Steel	Steel	Steel

[1] S1 duty cycle based on 3000rpm input speed

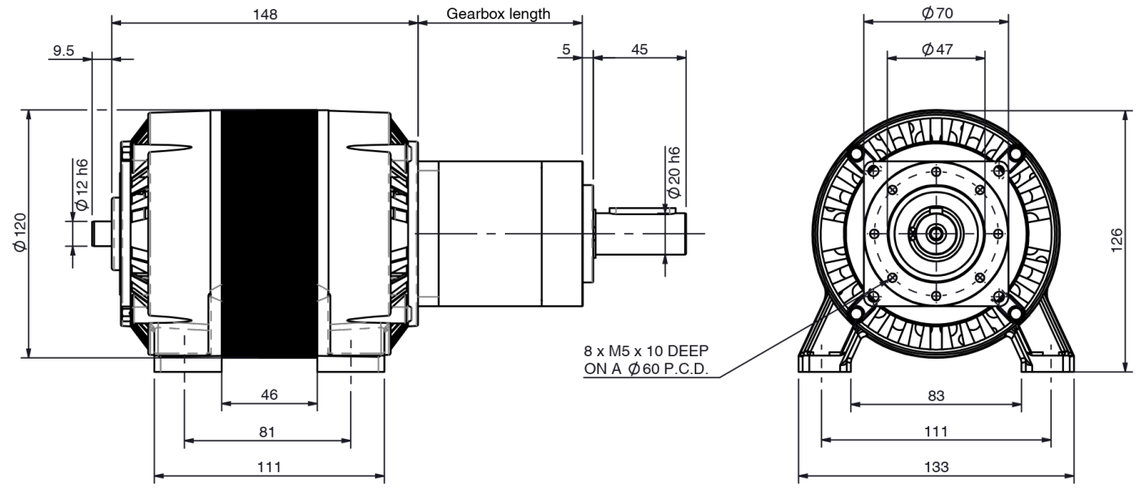
Gearbox accessories

Shaft modifications
- → Various lengths and diameters
- → Keyways
- → Flats
- → Centre holes

SD13 (3 Phase, 4 Pole)-PGx70 AC planetary geared motor

400/230 V // 125 W // 32 - 436 rpm // 3.2 - 30.0 Nm

all dimensions in mm



Combination data											
Motor		SD13 50Hz	SD13 50Hz	SD13 50Hz	SD13 50Hz	SD13 50Hz	SD13 60Hz	SD13 60Hz	SD13 60Hz	SD13 60Hz	SD13 60Hz
Phase		3	3	3	3	3	3	3	3	3	3
Poles		4	4	4	4	4	4	4	4	4	4
Frequency	Hz	50	50	50	50	50	60	60	60	60	60
Voltage	V	400/230	400/230	400/230	400/230	400/230	400/230	400/230	400/230	400/230	400/230
Nominal motor power	W	125	125	125	125	125	125	125	125	125	125
Gearbox ratio	:1	3.9	6.6	16	21	44	3.9	6.6	16	21	44
Nominal speed	rpm	359	212	88	67	32	436	258	106	81	39
Nominal torque (S1)	Nm	3.2	5.3	10.0	16.5	30.0	2.6	4.4	10.0	13.6	28.4

Motor only data			
Motor		SD13 50Hz	SD13 60Hz
Phase		3	3
Poles		4	4
Frequency	Hz	50	60
Nominal voltage	V	400/230	400/230
Nominal power	W	125	125
Nominal speed	rpm	1400	1700
Continuous torque (S1)	Nm	0.85	0.70
Weight	Kg	5.4	5.4
Stack length	mm	46	46
Motor length	mm	148	148

Motor accessories

Brake
- → 2.0 Nm

Encoder
- N/A

Controller
- N/A

Gearbox only data						
Part number		891049	-	891050	891051	-
Ratio	:1	3.9	6.6	16	21	44
Stages		1	1	2	2	2
Max. continuous torque (S1) [1]	Nm	10.0	10.0	30.0	30.0	30.0
Max. intermittent torque	Nm	12.5	12.5	37.5	37.5	37.5
Efficiency	%	95	95	92	92	92
Max. axial load (dynamic)	N	825	825	825	825	825
Max. radial load, 12mm from flange	N	1000	1000	1000	1000	1000
Weight	Kg	1.11	1.11	1.45	1.45	1.45
Gearbox length	mm	58.0	58.0	79.9	79.9	79.9
Gear material		Steel	Steel	Steel	Steel	Steel

[1] S1 duty cycle based on 3000rpm input speed

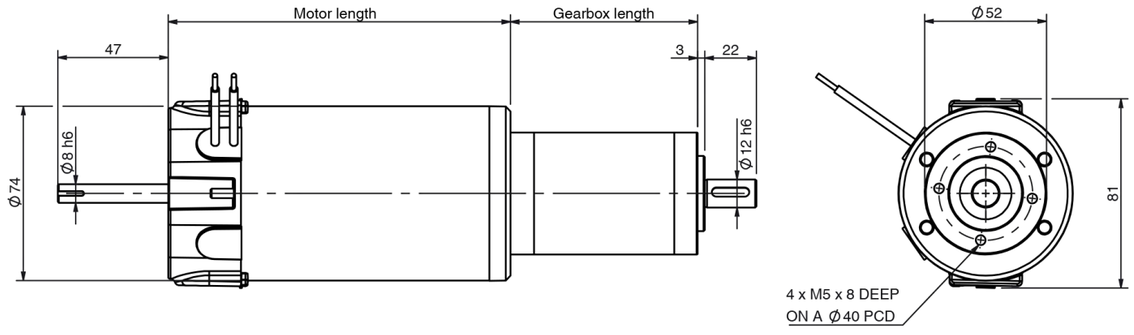
Gearbox accessories

Shaft modifications
- → Various lengths and diameters
- → Keyways
- → Flats
- → Centre holes

BRx70-PGx52 PMDC planetary geared motor

12 - 48 V // 79 - 157 W // 27 - 566 rpm // 1.3 - 45.0 Nm

all dimensions in mm



Combination data									
Motor		BRx70-40	BRx70-40	BRx70-40	BRx70-40	BRx70-60	BRx70-60	BRx70-60	BRx70-60
Voltage	V	12 - 48	12 - 48	12 - 48	12 - 48	12 - 48	12 - 48	12 - 48	12 - 48
Nominal motor power	W	79	79	79	79	157	157	157	157
Gearbox ratio	:1	5.3	16	62	111	5.3	16	62	111
Nominal speed	rpm	566	188	48	27	566	188	48	27
Nominal torque (S1)	Nm	1.3	3.7	13.8	24.7	2.5	7.4	27.6	30.0
Intermittent torque (S2 - 15 mins)	Nm	2.1	6.2	23.2	41.5	4.4	13.0	45.0	45.0

Motor only data							
Part number		781092	781093	781094	781095	781096	781097
Motor		BRx70-40	BRx70-40	BRx70-40	BRx70-60	BRx70-60	BRx70-60
Nominal power	W	79	79	79	157	157	157
Nominal voltage	V	12	24	48	12	24	48
Nominal speed	rpm	3000	3000	3000	3000	3000	3000
Continuous torque (S1)	Nm	0.25	0.25	0.25	0.50	0.50	0.50
Intermittent torque (S2 - 15 mins)	Nm	0.42	0.42	0.42	0.88	0.88	0.88
Weight	Kg	1.85	1.85	1.85	2.25	2.25	2.25
Stack length	mm	40	40	40	60	60	60
Motor length	mm	125	125	125	146	146	146

Gearbox only data					
Part number		891042	891043	891044	891047
Ratio	:1	5.3	16	62	111
Stages		1	2	3	3
Max. continuous torque (S1) [1]	Nm	5.0	15.0	30.0	30.0
Max. intermittent torque	Nm	7.0	23.0	45.0	45.0
Efficiency	%	95	92	89	89
Max. axial load (dynamic)	N	200	200	200	200
Max. radial load, 12mm from flange	N	420	630	900	900
Weight	Kg	0.69	0.86	1.08	1.08
Gearbox length	mm	50.4	67.5	84.4	84.4
Gear material		Steel	Steel	Steel	Steel

[1] S1 duty cycle based on 3000rpm input speed

Motor accessories

Brake
- → 1.5 Nm

Encoder
- → Incremental 5-pin
- → Incremental 10-pin
- → Differential 5-pin

Controller
- → SC 50/15 controller

Gearbox accessories

Shaft modifications
- → Various lengths and diameters
- → Keyways
- → Flats
- → Centre holes

Notes

Accessories

Here at Parvalux, we appreciate that sometimes it's the small things that can really make a difference, that's why we offer a range of accessories to enable more precise control of your motor-gearbox system.



Incremental encoder

Technical details	
Part number	735912
Pulses per revolution	48 - 2048 PPR
Power supply	3.6 - 5.5 VDD
Current consumption	6.0 mA
Output high level	0.8 V
Output low level	0.4 V



Differential encoder

Technical details	
Part number	919388
Pulses per revolution	48 - 2048 PPR
Power supply	4.5 - 5.5 VDD
Current consumption	16.0 mA
Output high level	0.1 V
Output low level	0.1 V

Additional flanges may be required when mounting the various accessories to our motors.



Brakes

- Power ON brakes
- Power OFF brakes (available on request)
- Multiple strengths
- Flange and magnetic mounting

Controllers

We offer a range of controllers that enable more intellignet and precise control of your application. Specification details available in our product range catalogue, found at parvalux.com.



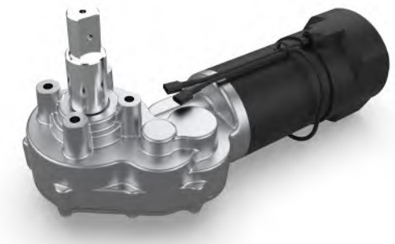
- EPOS (positioning controllers)



- ESCON (speed controllers)

More info...





Scan below to find out more

This brochure displays a number of examples of solutions for the packaging automation market, however, we also have an extensive range of motors and gearboxes that may be better suited to your application.

If you're looking for something a little different, please scan the QR code to the right to visit our website or contact your local sales engineer, found on page 41 of this brochure, to discuss the requirements of your packaging automation project.

Standard range

If you can't find anything within this brochure that meets your requirements, we have an extensive range of standard motors and gearboxes that can be found within our product range catalogue.

Visit **parvalux.com/catalogues** to explore the range.

Custom solutions

Our expert team of design engineers are well-versed in modifying our standard range to suit or can even create a completely custom solution from scratch.

Visit **parvalux.com/custom-drive-solutions** to take a look at some of our previous creations.

If you require any further information about the products found in this brochure, our standard range, or our custom drive solutions, our friendly team of sales engineers are on-hand to answer any questions you may have. Please turn to page 41 to find your local sales engineer and start the conversation about your project.

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maxon

Parvalux is proudly a maxon company, meaning that we have representation on every continent and the backing of one of the finest technical teams on the planet.

parvalux
by maxon

All products are built in accordance to performance tolerances from EN60034-1:2010. As continuous improvement, Parvalux periodically test their product range to ensure test results are as accurate as possible and are therefore subject to change. Please ensure you are using the latest datasheets found on our website

2025 v1.0 // 13.11.25

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