



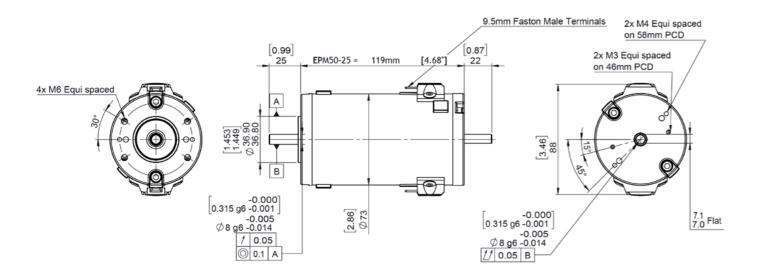
Toll Free Phone (877) SERV098
Toll Free Fax (877) SERV099
www.electromate.com
sales@electromate.com



EPM Range

Our EPM DC motor range offers a wide selection of output speed, power, and torque to perfectly meet the requirements of applications in a myriad of market sectors.

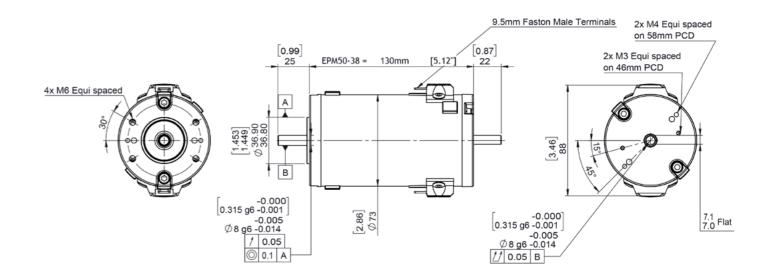
Reliable and robust, they combine seamlessly with our gearbox range, enabling you to fine tune the output performance of your motor-gearbox system.



Part number key						Available on request: custom shaft length and diameter, shaft on both sides, special windings
Modular	######					for specific voltages and speed, higher IP protection class, custom flanges and connectors
Standard	######					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
Calculated data	######					and are therefore subject to change. Please ensure you are using the latest datasheets found on our website
Technical data						
1 Part number		-	-	-	-	
2 Nominal power	W	79	79	79	79	
3 Nominal voltage	V	12	24	40	48	
4 No load speed	rpm	4376	4136	4073	3893	
5 No load current	Α	1.75	1.04	0.61	0.31	
6 Nominal speed	rpm	3000	3000	3000	3000	
7 Nominal continuous torque (S1)	Nm	0.25	0.25	0.25	0.25	
8 Nominal continuous current (S1)	Α	12.3	5.6	3.3	2.6	
9 Max. intermittent torque (S3)	Nm	0.44	0.44	0.44	0.44	
10 Stall current	Α	35.7	23.6	13.8	11.5	
11 Stall torque	Nm	0.81	1.16	1.14	1.20	
12 Stack length	mm	25	25	25	25	
13 Maximum efficiency	%	61	64	65	70	
14 Terminal resistance - phase to phase	Ω	0.34	1.02	2.91	4.19	
15 Terminal inductance - phase to phase	mH	-	-	-	-	
16 Speed constant	rpm/V	383.4	180.3	106.6	83.4	
17 Torque constant	Nm/A	0.024	0.050	0.080	0.110	
18 Speed torque gradient	rpm/Nm	5800	3621	3621	3428	
19 Rotor inertia	Kgcm ²	1.41 x 10 ⁻⁴				

Thermal data			Modular syste	em			
20 Ambient temperature	°C	40					
			Brake	+L mm		Gearbox	+L mm
Mechanical data			1.5 Nm 2.0 Nm	28.2 32.2		GB4/41 GB12	110 110
	Al Francis	150 051	2.0 14111	52.2		PGS62	44 - 90
21 Radial load [distance from flange]	N [mm]	150 [15]				PGS71	49 - 99
Other data 22 Number of poles		2			+	~~~	
23 Weight	Kg	1.40			T	() ———————————————————————————————————	
24 IP rating		IP44			+	+L mm = approxin	nate added length*
25 Enclosure		Enclosed			•		
26 Insulation Class		F				Controller	
27 Reversible		Yes		Encoder +L n		SC 50/15	
				Optical Magnetic	9 12	ESCON EPOS	

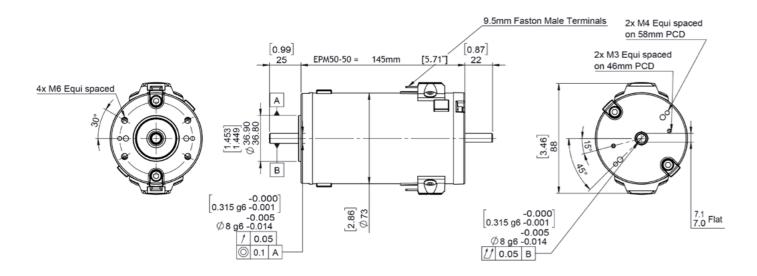
*additional length may also be required for mounting flange between component



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Calculated data	######					and are therefore subject to change. Please ensure you are using the latest datasheets found on our we
Technical data						
1 Part number		-	-	-	-	
2 Nominal power	W	94	94	94	94	
3 Nominal voltage	V	12	24	40	48	
4 No load speed	rpm	3807	3827	3939	3920	
5 No load current	Α	1.4	0.57	0.35	0.29	
6 Nominal speed	rpm	3000	3000	3000	3000	
7 Nominal continuous torque (S1)	Nm	0.3	0.3	0.3	0.3	
8 Nominal continuous current (S1)	Α	11.0	5.5	3.4	2.8	
9 Max. intermittent torque (S3)	Nm	0.50	0.50	0.50	0.50	
0 Stall current	Α	76	32	20	17	
11 Stall torque	Nm	2.3	1.9	1.9	1.9	
2 Stack length	mm	38	38	38	38	
3 Maximum efficiency	%	78	77	77	77	
4 Terminal resistance - phase to phase	Ω	0.159	0.760	1.990	2.900	
5 Terminal inductance - phase to phase	mH	-	-	-	-	
6 Speed constant	rpm/V	312	156	96	80	
17 Torque constant	Nm/A	0.031	0.060	0.098	0.120	
8 Speed torque gradient	rpm/Nm	1646	2041	2041	2041	
9 Rotor inertia	Kgcm ²	1.57 x 10 ⁻⁴				

Thermal data			Modular syste	m			
20 Ambient temperature	°C	40	Brake	+L mm 28.2		Gearbox GB4/41	+L mn
Mechanical data			2.0 Nm	32.2		GB12	110
21 Radial load [distance from flange]	N [mm]	150 [15]				PGS62 PGS71	44 - 90 49 - 99
Other data							
22 Number of poles		2			+	<i>(</i> 63)	
23 Weight	kg	1.60			*	200	
24 IP rating		IP44			+	+L mm = approxim	ate added lengt
25 Enclosure		Enclosed			φ		
26 Insulation Class		F				Controller	
27 Reversible		Yes		Encoder +L m Optical Magnetic	m 9 12	SC 50/15 ESCON EPOS	

*additional length may also be required for mounting flange between components

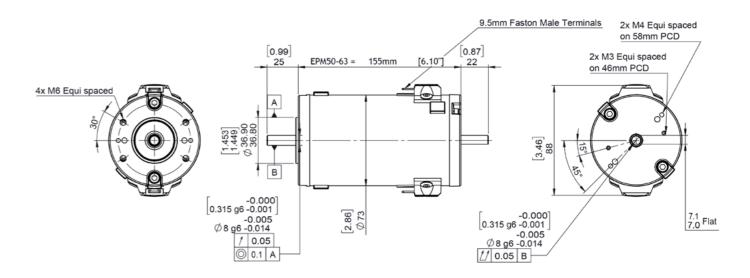


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Technical data						
1 Part number		-	-	-	-	
2 Nominal power	W	123	123	123	123	
3 Nominal voltage	V	12	24	40	48	
4 No load speed	rpm	4051	3624	3579	3624	
5 No load current	Α	1.26	0.50	0.30	0.25	
6 Nominal speed	rpm	3000	3000	3000	3000	
7 Nominal continuous torque (S1)	Nm	0.39	0.39	0.39	0.39	
8 Nominal continuous current (S1)	Α	14.3	6.7	4.0	3.3	
9 Max. intermittent torque (S3)	Nm	0.65	0.65	0.65	0.65	
10 Stall current	Α	77	41	24	20	
11 Stall torque	Nm	2.3	2.5	2.5	2.5	
12 Stack length	mm	50	50	50	50	
13 Maximum efficiency	%	81	79	80	80	
14 Terminal resistance - phase to phase	Ω	0.16	0.59	1.68	2.36	
15 Terminal inductance - phase to phase	mH	-	-	-	-	
16 Speed constant	rpm/V	1786	148	88	74	
17 Torque constant	Nm/A	0.03	0.06	0.11	0.13	
18 Speed torque gradient	rpm/Nm	1786	1426	1426	1426	
19 Rotor inertia	Kgcm ²	2.28 x 10 ⁻⁴				

Thermal data			Modular syster	n			
20 Ambient temperature	°C	40	Brake	+L mm 28.2		Gearbox GB4/41	+L mm
Mechanical data			2.0 Nm	32.2		GB12	110
21 Radial load [distance from flange]	N [mm]	150 [15]				PGS62 PGS71	44 - 90 49 - 99
Other data							
22 Number of poles		2			(+ ()	_ • ~~	
23 Weight	Kg	2.05			Щ Т	= + { ₀ }	_
24 IP rating		IP44			+	+L mm = approxi	mate added length*
25 Enclosure		Enclosed			P		
26 Insulation Class		F				Controller	
27 Reversible		Yes		Encoder Optical Magnetic	+L mm 9 12	SC 50/15 ESCON EPOS	

*additional length may also be required for mounting flange between component

EPM50-63 PMDC motor



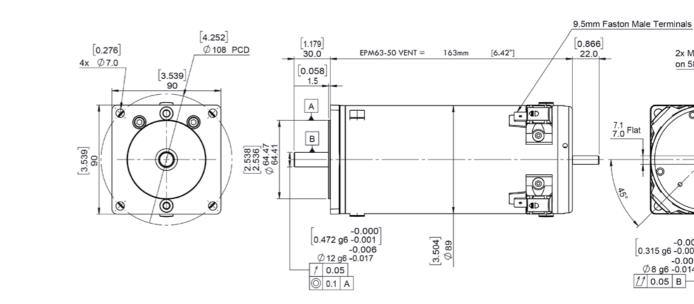
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Calculated data	######					and are therefore subject to change. Please ensure you are using the latest datasheets found on our we
Technical data						
1 Part number		-	-	-	-	
2 Nominal power	W	151	151	151	151	
3 Nominal voltage	V	12	24	40	48	
4 No load speed	rpm	4119	3912	3650	3598	
5 No load current	Α	1.30	0.50	0.27	0.22	
6 Nominal speed	rpm	3000	3000	3000	3000	
7 Nominal continuous torque (S1)	Nm	0.48	0.48	0.48	0.48	
8 Nominal continuous current (S1)	Α	18.0	8.4	4.9	4.1	
9 Max. intermittent torque (S3)	Nm	0.80	0.80	0.80	0.80	
10 Stall current	Α	79	42	32	26	
11 Stall torque	Nm	2.3	2.8	3.3	3.2	
12 Stack length	mm	63	63	63	63	
13 Maximum efficiency	%	80	80	81	81	
14 Terminal resistance - phase to phase	Ω	0.15	0.57	1.25	1.86	
15 Terminal inductance - phase to phase	mH	-	-	-	-	
16 Speed constant	rpm/V	330	178	90	74	
17 Torque constant	Nm/A	0.03	0.06	0.10	0.13	
18 Speed torque gradient	rpm/Nm	1835	1412	1121	1120	
19 Rotor inertia	Kgcm ²	2.48 x 10 ⁻⁴				

Thermal data			Modular systen	n				
20 Ambient temperature	°C	40	Bushin	.1			0	.1
			Brake 1.5 Nm	+L mm 28.2			Gearbox GB4/41	+L mm
Mechanical data			2.0 Nm	32.2			GB12	110
21 Radial load [distance from flange]	N [mm]	150 [15]					PGS62	44 - 90
							PGS71	49 - 99
Other data								
22 Number of poles		2			n + T		<i>{</i> \$}	
23 Weight	Kg	2.15			" " L		£03	
24 IP rating		IP44				+	+L mm = approxim	ate added length
25 Enclosure		Enclosed				Ŷ		
26 Insulation Class		F				*	Controller	
27 Reversible		Yes			+L mm	T	SC 50/15	
				Optical Magnetic	9 12		ESCON EPOS	
				Magnetic	14		1 2 3 3	

*additional length may also be required for mounting flange between componer

2x M4 Equi spaced on 58mm PCD

0.000 0.315 g6 -0.001 -0.005 Ø8 g6 -0.014 1 0.05 B



Part number key						
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Calculated data	######					and are therefore subject to change. Please ensure you are using the latest datasheets found on our we
Technical data						
1 Part number		-	-	-	-	
2 Nominal power	W	327	327	327	327	
3 Nominal voltage	V	12	24	40	48	
4 No load speed	rpm	4548	3992	3881	3854	
5 No load current	Α	5.50	2.60	1.50	1.04	
6 Nominal speed	rpm	3000	3000	3000	3000	
7 Nominal continuous torque (S1)	Nm	1.04	1.04	1.04	1.04	
8 Nominal continuous current (S1)	Α	46.0	20.0	11.4	7.0	
9 Max. intermittent torque (S3)	Nm	1.60	1.60	1.60	1.60	
10 Stall current	Α	156.0	83.0	47.0	38.7	
11 Stall torque	Nm	3.8	4.8	4.7	4.6	
12 Stack length	mm	50	50	50	50	
13 Maximum efficiency	%	69	70	70	70	
14 Terminal resistance - phase to phase	Ω	0.08	0.29	0.85	1.24	
15 Terminal inductance - phase to phase	mH	-	-	-	-	
16 Speed constant	rpm/V	371	159	93	77	
17 Torque constant	Nm/A	0.025	0.059	0.100	0.123	
18 Speed torque gradient	rpm/Nm	1200	831	831	831	
19 Rotor inertia	Kgcm ²	6.13 x 10 ⁻⁴				

Thermal data			Modular system	l control			
20 Ambient temperature	°C	40					
			Brake 2.0 Nm	+L mm 32.2		Gearbox GB4/41	+L mn
Mechanical data			2.0 NIII	32.2		GB4/41	110
21 Radial load [distance from flange]	N [mm]	200 [15]				GB9	138
						PGS62 PGS71	44 - 90 49 - 99
Other data 22 Number of poles		4		+ (5~~	
23 Weight	Kg	3.10			+ +	(°)—	
24 IP rating		IP21			+	+L mm = approxim	ate added lengt
25 Enclosure		Ventilated			Q		
26 Insulation Class		F				Controller	
27 Reversible		Yes		Encoder -	+L mm	SC 50/15 ESCON	
				Magnetic	12	EPOS	

*additional length may also be required for mounting flange between comp

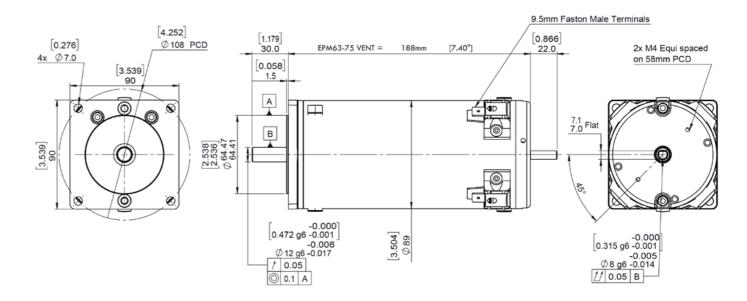
[0.276]	[4.252] Ø 108 PCD	[1.179] 30.0 EPM63-50 =	: 150mm	9.5m [0.86 [5.90"]	m Faston Male Terminals [6] D. 2x M4 Equi spaced
4x Φ7.0 [3.539]	-	[0.058] 1.5	1301111		on 58mm PCD
(3.539) (90) (90) (90) (90) (90) (90) (90) (9	2.538 2.538 0.64.47 0.64.47	B			7.1 Flat
		0.472 g6 -0.000 -0.006 Ø12 g6 -0.017 / 0.05	[3.504] Ø89		-0.000 [0.315 g6 -0.001] -0.005 Φ 8 g6 -0.014 [ff 0.05 B]

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Calculated data	######					and are therefore subject to change. Please ensure you are using the latest datasheets found on our website
Technical data						
1 Part number		-	-	-	-	
2 Nominal power	W	220	220	220	220	
3 Nominal voltage	V	12	24	40	48	
4 No load speed	rpm	3899	3992	3881	3854	
5 No load current	Α	4.70	2.60	1.50	1.24	
6 Nominal speed	rpm	3000	3000	3000	3000	
7 Nominal continuous torque (S1)	Nm	0.7	0.7	0.7	0.7	
8 Nominal continuous current (S1)	Α	28.4	14.5	8.4	7.0	
9 Max. intermittent torque (S3)	Nm	1.17	1.17	1.17	1.17	
10 Stall current	Α	115	83	47	39	
11 Stall torque	Nm	3.3	4.8	4.7	4.6	
12 Stack length	mm	50	50	50	50	
13 Maximum efficiency	%	67	70	70	70	
14 Terminal resistance - phase to phase	Ω	0.10	0.29	0.85	1.24	
15 Terminal inductance - phase to phase	mH	-	-	-	-	
16 Speed constant	rpm/V	320	159	93	77	
17 Torque constant	Nm/A	0.03	0.06	0.10	0.12	
18 Speed torque gradient	rpm/Nm	1200	831	831	831	
19 Rotor inertia	Kgcm ²	6.13 x 10 ⁻⁴				

Thermal data			Modular sy	stem		
20 Ambient temperature	°C	40				
			2.0 Nm	+L mm 32.2		Gearbox +L mm GB4/41 110
Mechanical data			2.0 NIII	32.2		GB12 110
21 Radial load [distance from flange]	N [mm]	200 [15]				GB9 138 PGS62 44 - 90 PGS71 49 - 99
Other data						10011 40 00
22 Number of poles		4			+ 11 + 11 1 1 +	~~
23 Weight	Kg	3.00			+ + + + + + + + + + + + + + + + +	{o}——
24 IP rating		IP44			+	+L mm = approximate added length*
25 Enclosure		Enclosed			•	
26 Insulation Class		F				Controller
27 Reversible		Yes		Encoder Optical Magnetic	+L mm 9 12	SC 50/15 ESCON EPOS

*additional length may also be required for mounting flange between components

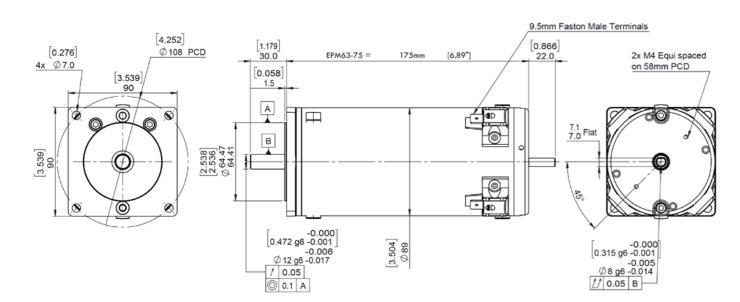
Ø90 mm frame // 75 mm stack



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Calculated data	######					and are therefore subject to change. Please ensure you are using the latest datasheets found on our websi
Technical data						
1 Part number		-	-	-	-	
2 Nominal power	W	377	377	377	377	
3 Nominal voltage	V	12	24	40	48	
4 No load speed	rpm	4158	3973	3913	3973	
5 No load current	Α	4.00	1.70	1.00	0.85	
6 Nominal speed	rpm	3000	3000	3000	3000	
7 Nominal continuous torque (S1)	Nm	1.2	1.2	1.2	1.2	
8 Nominal continuous current (S1)	Α	30.0	21.4	12.6	10.7	
9 Max. intermittent torque (S3)	Nm	1.80	1.80	1.80	1.80	
10 Stall current	Α	242	88	51	44	
11 Stall torque	Nm	6.4	5.3	5.2	5.3	
12 Stack length	mm	75	75	75	75	
13 Maximum efficiency	%	75	80	79	79	
14 Terminal resistance - phase to phase	Ω	0.050	0.272	0.780	1.090	
15 Terminal inductance - phase to phase	mH	-	-	-	-	
16 Speed constant	rpm/V	335	160	94	80	
17 Torque constant	Nm/A	0.027	0.061	0.100	0.120	
18 Speed torque gradient	rpm/Nm	649	755	755	755	
19 Rotor inertia	Kgcm ²	2.83 x 10 ⁻⁴				

Thermal data			Compatible pr	oducts			
20 Ambient temperature	°C	40	Brake	+L mm		Gearbox	+L mn
Mechanical data			2.0 Nm	32.2		GB4/41 GB12	11(11(
21 Radial load [distance from flange]	N [mm]	200 [15]				GB9 PGS62 PGS71	138 44 - 90 49 - 99
Other data							
22 Number of poles		4		 + (1 + The +	₹63 <u></u>	
23 Weight	Kg	4.10]	200	
24 IP rating		IP21			+	+L mm = approxin	nate added lengt
25 Enclosure		Ventilated			φ		
26 Insulation Class		F				Controller	
27 Reversible		Yes		Encoder + Optical Magnetic	L mm 9 12	SC 50/15 ESCON EPOS	

*additional length may also be required for mounting flange between component

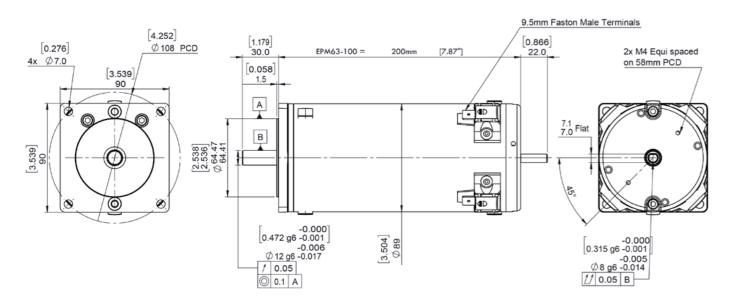


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Technical data						
1 Part number		-	-	-	-	
2 Nominal power	W	283	283	283	283	
3 Nominal voltage	V	12	24	40	48	
4 No load speed	rpm	3564	3973	3913	3973	
5 No load current	Α	3.40	1.70	1.00	0.85	
6 Nominal speed	rpm	3000	3000	3000	3000	
7 Nominal continuous torque (S1)	Nm	0.9	0.9	0.9	0.9	
8 Nominal continuous current (S1)	Α	25.8	13.2	7.8	6.6	
9 Max. intermittent torque (S3)	Nm	1.50	1.50	1.50	1.50	
10 Stall current	Α	178.0	88.0	51.3	44.0	
11 Stall torque	Nm	5.5	5.3	5.2	5.3	
12 Stack length	mm	75	75	75	75	
13 Maximum efficiency	%	67	79	79	80	
14 Terminal resistance - phase to phase	Ω	0.067	0.272	0.780	1.090	
15 Terminal inductance - phase to phase	mH	-	-	-	-	
16 Speed constant	rpm/V	288.0	160.0	94.4	80.0	
17 Torque constant	Nm/A	0.031	0.061	0.100	0.120	
18 Speed torque gradient	rpm/Nm	649	755	755	755	
19 Rotor inertia	Kgcm ²	2.83 x 10 ⁻⁴				

Thermal data			Modular system
20 Ambient temperature	°C	40	
			Brake +L mm Gearbox +L mm
Mechanical data			2.0 Nm 32.2 GB4/41 110 GB12 110
21 Radial load [distance from flange]	N [mm]	200 [15]	GB9 138 PGS62 44 - 90
			PGS02 44-90 PGS71 49-99
Other data			
22 Number of poles		4	
23 Weight	Kg	4.00	
24 IP rating		IP44	+L mm = approximate added length*
25 Enclosure		Enclosed	0
26 Insulation Class		F	Controller
27 Reversible		Yes	Encoder +L mm SC 50/15
			Optical 9 ESCON Magnetic 12 EPOS
			magnetic 12 I LF03

*additional length may also be required for mounting flange between components

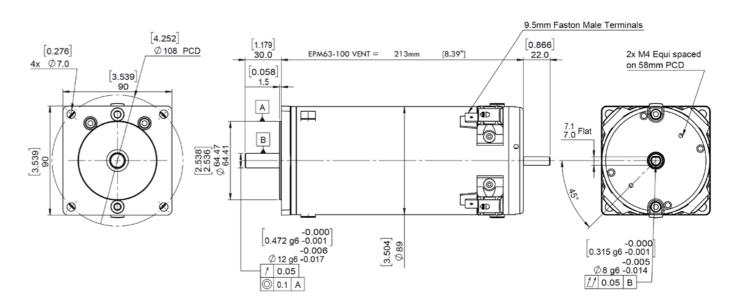
Ø90 mm frame // 100 mm stack



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Standard	######					an products are built in accordance to periormance tolerances from Evolutional 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
Calculated data	######					and are therefore subject to change. Flease ensure you are using the fatest datastreets found on our website
Technical data						
1 Part number		-	-	-	-	
2 Nominal power	W	377	377	377	377	
3 Nominal voltage	V	12	24	40	48	
4 No load speed	rpm	4771	3895	3819	3895	
5 No load current	Α	5.20	1.90	1.10	0.94	
6 Nominal speed	rpm	3000	3000	3000	3000	
7 Nominal continuous torque (S1)	Nm	1.2	1.2	1.2	1.2	
8 Nominal continuous current (S1)	Α	54.6	22.3	13.1	11.1	
9 Max. intermittent torque (S3)	Nm	1.90	1.90	1.90	1.90	
10 Stall current	Α	194	134	77	67	
11 Stall torque	Nm	4.6	7.7	7.5	7.7	
12 Stack length	mm	100	100	100	100	
13 Maximum efficiency	%	73	78	78	78	
14 Terminal resistance - phase to phase	Ω	0.062	0.300	0.520	0.720	
15 Terminal inductance - phase to phase	mH	-	-	-	-	
16 Speed constant	rpm/V	393	158	93	79	
17 Torque constant	Nm/A	0.024	0.060	0.100	0.120	
18 Speed torque gradient	rpm/Nm	1041	509	509	509	
19 Rotor inertia	gcm ²	9.64 x 10 ⁻⁴				

Thermal data			Modular system
20 Ambient temperature	°C	40	Brake +L mm Gearbox +L mn 2.0 Nm 32.2 GB4/41 110
Mechanical data			GB12 110
21 Radial load [distance from flange]	N [mm]	200 [15]	GB9 138 PGS62 44 - 90 PGS71 49 - 99
Other data			
22 Number of poles		4	
23 Weight	Kg	4.50	
24 IP rating		IP44	+L mm = approximate added length
25 Enclosure		Enclosed	Ŷ
26 Insulation Class		F	Controller
27 Reversible		Yes	Encoder +L mm Optical 9 Magnetic 12 SC 50/15 ESCON EPOS

*additional length may also be required for mounting flange between component



Part number key						Available on request: Custom shaft length and diameter, shaft on both sides, special windings
Modular	######					for specific voltages and speed, higher IP protection class, custom flanges and connectors
Standard	######					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 possi
Calculated data	######					and are therefore subject to change. Please ensure you are using the latest datasheets found on our web
Technical data						
1 Part number		-	-	-	-	
2 Nominal power	W	471	471	471	471	
3 Nominal voltage	V	12	24	40	48	
4 No load speed	rpm	4771	3895	3819	3895	
5 No load current	Α	5.20	1.90	1.10	0.94	
6 Nominal speed	rpm	3000	3000	3000	3000	
7 Nominal continuous torque (S1)	Nm	1.5	1.5	1.5	1.5	
8 Nominal continuous current (S1)	Α	67.0	27.5	16.2	13.7	
9 Max. intermittent torque (S3)	Nm	2.00	2.40	2.40	2.40	
10 Stall current	Α	194	134	77	67	
11 Stall torque	Nm	4.6	7.7	7.5	7.7	
12 Stack length	mm	100	100	100	100	
13 Maximum efficiency	%	67	78	78	78	
14 Terminal resistance - phase to phase	Ω	0.06	0.18	0.52	0.72	
15 Terminal inductance - phase to phase	mH	-	-	-	-	
16 Speed constant	rpm/V	393	158	93	79	
17 Torque constant	Nm/A	0.024	0.060	0.100	0.120	
18 Speed torque gradient	rpm/Nm	1041	509	509	509	
19 Rotor inertia	Kg/cm ²	9.64 x 10 ⁻⁴				

Thermal data			Compatible pr	oducts				
20 Ambient temperature	°C	40	Brake	+L mm			Gearbox	+L mn
Mechanical data			2.0 Nm	32.2			GB4/41 GB12	11(11(
21 Radial load [distance from flange]	N [mm]	200 [15]					GB9 PGS62 PGS71	138 44 - 90 49 - 99
Other data								
22 Number of poles		4			n +	¬ь +	£65}	
23 Weight	Kg	4.60			" " L		200	
24 IP rating		IP21			+		+L mm = approxir	nate added lengt
25 Enclosure		Ventilated			P			
26 Insulation Class		F					Controller	
27 Reversible		Yes		Encoder Optical Magnetic	+L mm 9 12	1	SC 50/15 ESCON EPOS	

*additional length may also be required for mounting flange between componen