



EPM Range

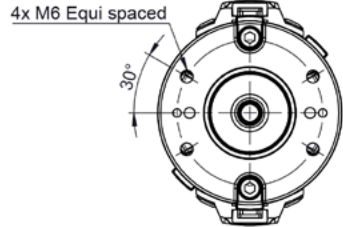
Our EPM DC motor range offers a wide selection of output speed, power, and torque to perfectly meet the requirements of applications in a myriad of market sectors.

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

PMDC motor

Ø73 mm frame // 25 mm stack

all dimensions in mm



Available on request: custom shaft length and diameter, shaft on both sides, special windings for specific voltages and speed, higher IP protection class, custom flanges and connectors

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

Brake

	+L mm
1.5 Nm	28.2
2.0 Nm	32.2

Encoder

	+L mm
Optical	9
Magnetic	12

Gearbox

	+L mm
GB4/41	110
GB12	110
PGS62	44 - 90
PGS71	49 - 99

Controller

	+L mm
SC 50/15	110
ESCON	110
EPOS	110

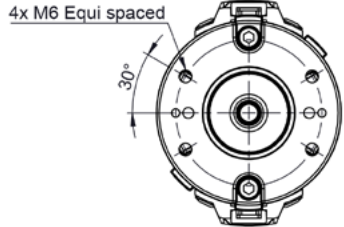
+L mm = approximate added length

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

PMDC motor

Ø73 mm frame // 38 mm stack

all dimensions in mm



Available on request: Custom shaft length and diameter, shaft on both sides, special windings for specific voltages and speed, higher IP protection class, custom flanges and connectors

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1.5 Nm	28.2
2.0 Nm	32.2

Encoder

	+L mm
Optical	9
Magnetic	12

Gearbox

	+L mm
GB4/41	110
GB12	110
PGS62	44 - 90
PGS71	49 - 99

Controller

SC 50/15
ESCON
EPOS

+L mm = approximate added length

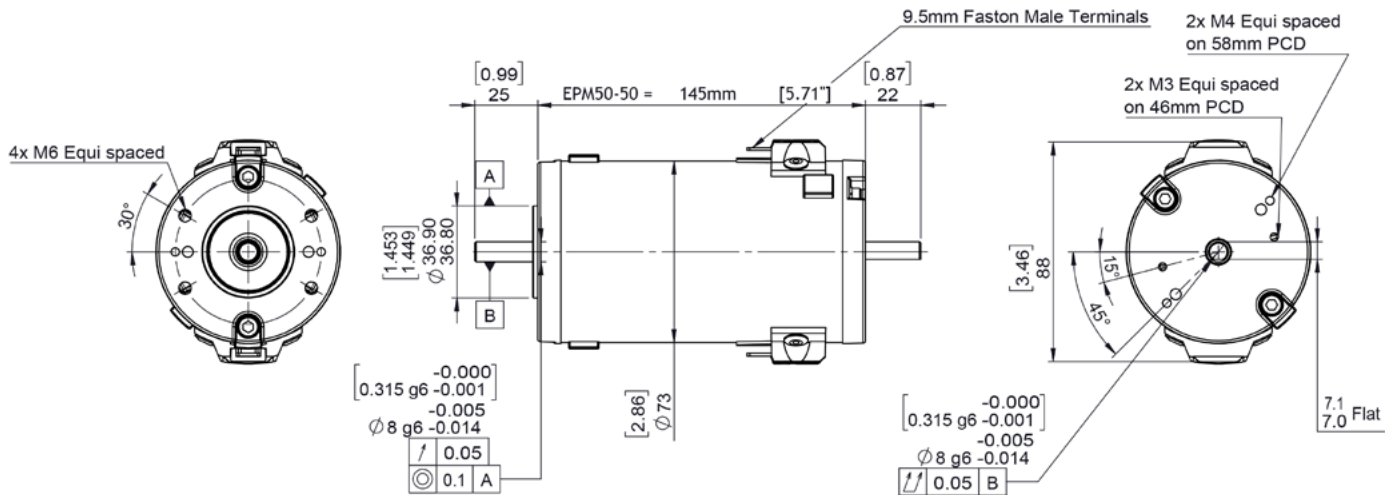
*additional length may also be required for mounting flange between component

EPM50-50

PMDC motor

Ø73 mm frame // 50 mm stack

all dimensions in mm



Part number key					
Modular	#####	Available on request: Custom shaft length and diameter, shaft on both sides, special windings for specific voltages and speed, higher IP protection class, custom flanges and connectors 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			
Standard	#####				
Calculated data	#####				
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	A	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)	A	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	A	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	Kgcm²	2.28 x 10 ⁻⁴	2.28 x 10 ⁻⁴	2.28 x 10 ⁻⁴	2.28 x 10 ⁻⁴

Thermal data		Modular system	
20 Ambient temperature	°C	40	
Mechanical data		Brake 1.5 Nm 2.0 Nm	+L mm 28.2 32.2
21 Radial load [distance from flange]	N [mm]	150 [15]	Gearbox GB4/41 GB12 PGS62 PGS71
Other data			+L mm 110 110 44 - 90 49 - 99
22 Number of poles		2	
23 Weight	Kg	2.05	
24 IP rating		IP44	
25 Enclosure		Enclosed	
26 Insulation Class		F	
27 Reversible		Yes	

Encoder
Optical
Magnetic

+L mm
9
12

Controller
SC 50/15
ESCON
EPOS

+L mm = approximate added length*

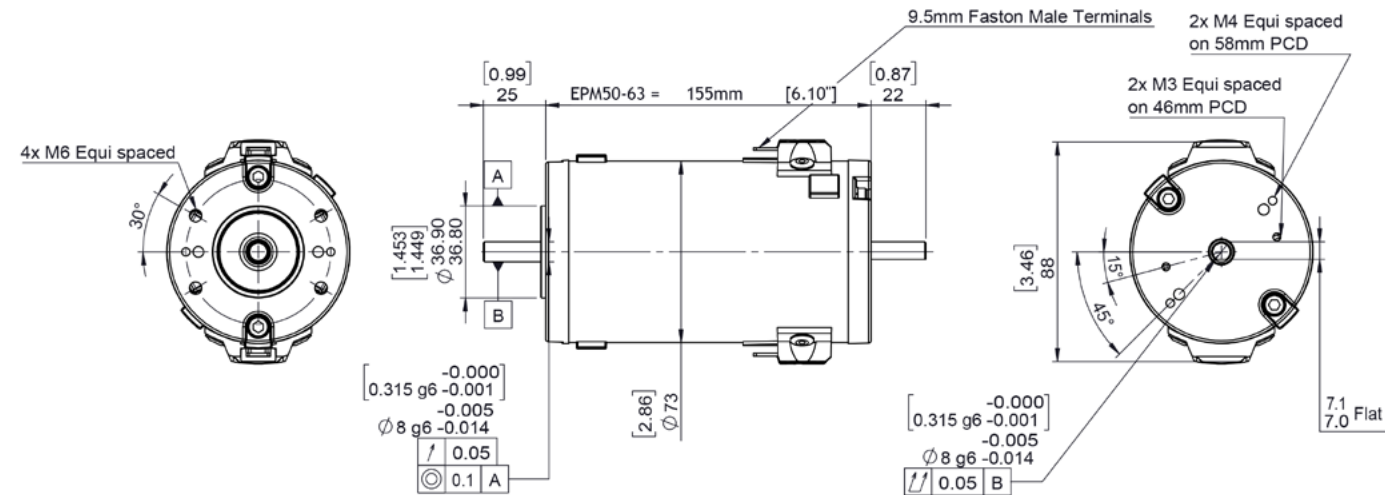
*additional length may also be required for mounting flange between components

EPM50-63

PMDC motor

Ø73 mm frame // 63 mm stack

all dimensions in mm



Part number key					
Modular	#####	Available on request: Custom shaft length and diameter, shaft on both sides, special windings for specific voltages and speed, higher IP protection class, custom flanges and connectors 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			
Standard	#####				
Calculated data	#####				
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	A	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)	A	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	A	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	Kgcm²	2.48 x 10 ⁻⁴	2.48 x 10 ⁻⁴	2.48 x 10 ⁻⁴	2.48 x 10 ⁻⁴

Thermal data		Modular system	
20 Ambient temperature	°C	40	
Mechanical data		Brake 1.5 Nm 2.0 Nm	+L mm 28.2 32.2
21 Radial load [distance from flange]	N [mm]	150 [15]	Gearbox GB4/41 GB12 PGS62 PGS71
Other data			+L mm 110 110 44 - 90 49 - 99
22 Number of poles		2	
23 Weight	Kg	2.15	
24 IP rating		IP44	
25 Enclosure		Enclosed	
26 Insulation Class		F	
27 Reversible		Yes	

Encoder
Optical
Magnetic

+L mm
9
12

Controller
SC 50/15
ESCON
EPOS

+L mm = approximate added length*

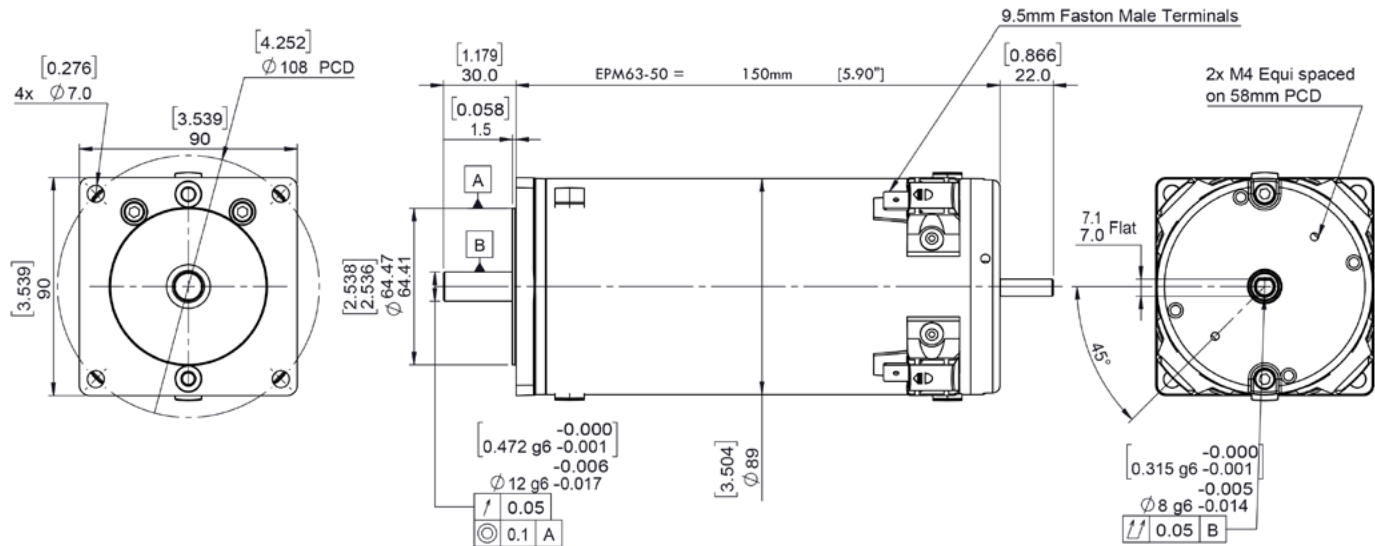
*additional length may also be required for mounting flange between components

EPM63-50

PMDC motor

all dimensions in mm

Ø90 mm frame // 50 mm stack



Part number key					
Modular	#####	Available on request: Custom shaft length and diameter, shaft on both sides, special windings for specific voltages and speed, higher IP protection class, custom flanges and connectors 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			
Standard	#####				
Calculated data	#####				
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	A	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)	A	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	A	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	Kgcm²	6.13 x 10 ⁻⁴	6.13 x 10 ⁻⁴	6.13 x 10 ⁻⁴	6.13 x 10 ⁻⁴

Thermal data			Modular system	
20 Ambient temperature	°C	40		
Mechanical data				
21 Radial load [distance from flange]	N [mm]	200 [15]		
Other data				
22 Number of poles		4		
23 Weight	Kg	3.00		
24 IP rating		IP44		
25 Enclosure		Enclosed		
26 Insulation Class		F		
27 Reversible		Yes		

Brake

2.0 Nm

+L mm

32.2

Gearbox

GB4/41

GB12

GB9

PGS62

PGS71

+L mm

110

110

138

44 - 90

49 - 99

Encoder

Optical

Magnetic

+L mm

9

12

Controller

SC 50/15

ESCON

EPOS

+L mm = approximate added length*

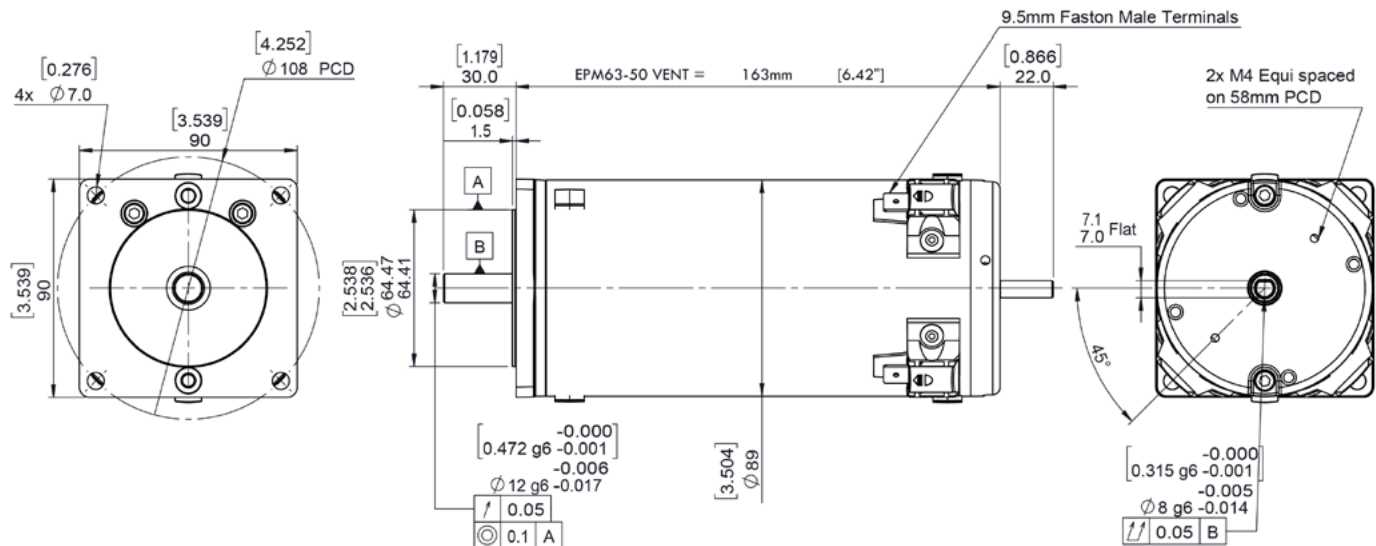
*additional length may also be required for mounting flange between components

EPM63-50 Fan Cooled

PMDC motor

all dimensions in mm

Ø90 mm frame // 50 mm stack



Part number key					
Modular	#####	Available on request: Custom shaft length and diameter, shaft on both sides, special windings for specific voltages and speed, higher IP protection class, custom flanges and connectors 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			
Standard	#####				
Calculated data	#####				
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	A	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)	A	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	A	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	Kgcm²	6.13 x 10 ⁻⁴	6.13 x 10 ⁻⁴	6.13 x 10 ⁻⁴	6.13 x 10 ⁻⁴

Thermal data			Modular system	
20 Ambient temperature	°C	40		
Mechanical data				
21 Radial load [distance from flange]	N [mm]	200 [15]		
Other data				
22 Number of poles		4		
23 Weight	Kg	3.10		
24 IP rating		IP21		
25 Enclosure		Ventilated		
26 Insulation Class		F		
27 Reversible		Yes		

Brake

2.0 Nm

+L mm

32.2

Gearbox

GB4/41

GB12

GB9

PGS62

PGS71

+L mm

110

110

138

44 - 90

49 - 99

Encoder

Optical

Magnetic

+L mm

9

12

Controller

SC 50/15

ESCON

EPOS

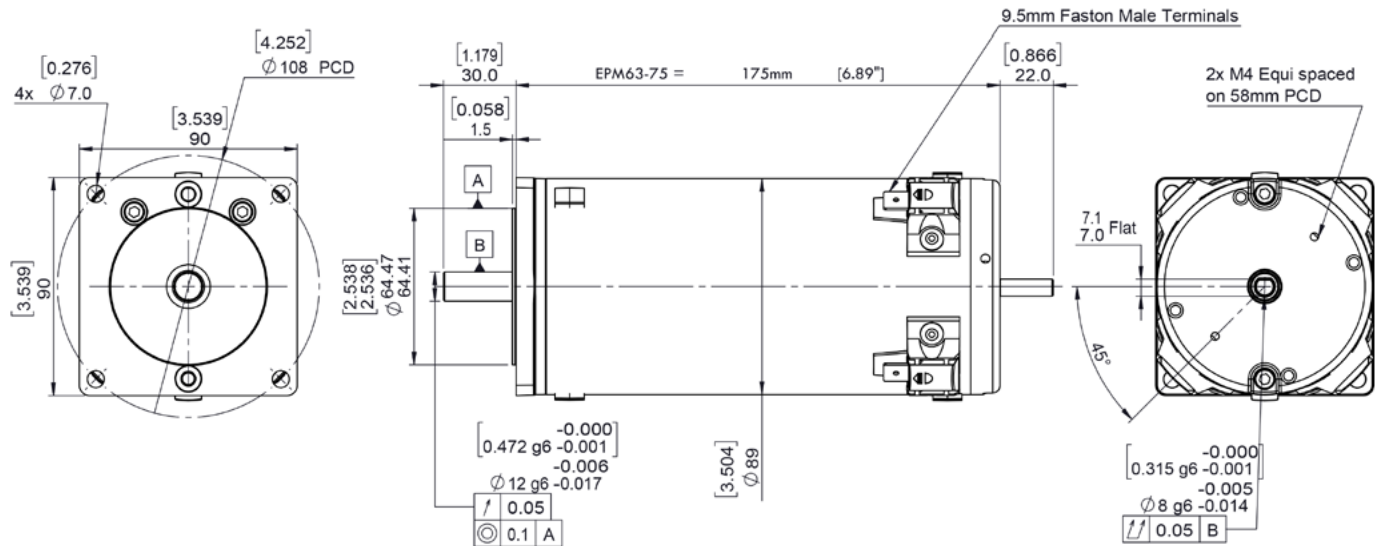
+L mm = approximate added length*

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

EPM63-75 PMDC motor

Ø90 mm frame // 75 mm stack

all dimensions in mm



Part number key					
Modular	#####	Available on request: Custom shaft length and diameter, shaft on both sides, special windings for specific voltages and speed, higher IP protection class, custom flanges and connectors 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			
Standard	#####				
Calculated data	#####				
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	A	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)	A	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	A	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	Kgcm²	2.83 x 10 ⁻⁴	2.83 x 10 ⁻⁴	2.83 x 10 ⁻⁴	2.83 x 10 ⁻⁴

Thermal data			Modular system	
20 Ambient temperature	°C	40		
Mechanical data				
21 Radial load [distance from flange]	N [mm]	200 [15]		
Other data				
22 Number of poles		4		
23 Weight	Kg	4.00		
24 IP rating		IP44		
25 Enclosure		Enclosed		
26 Insulation Class		F		
27 Reversible		Yes		

Brake

2.0 Nm

+L mm

32.2

Gearbox

GB4/41

GB12

GB9

PGS62

PGS71

+L mm

110

110

138

44 - 90

49 - 99

Encoder

Optical

Magnetic

+L mm

9

12

Controller

SC 50/15

ESCON

EPOS

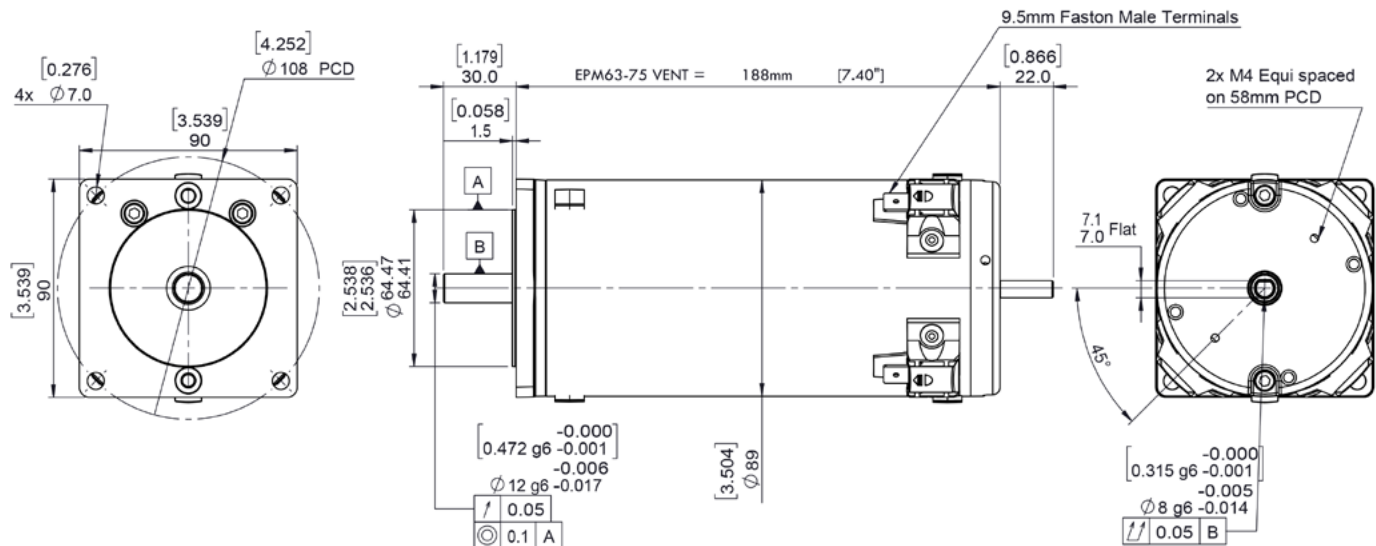
+L mm = approximate added length*

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

EPM63-75 Fan Cooled PMDC motor

Ø90 mm frame // 75 mm stack

all dimensions in mm



Part number key					
Modular	#####	Available on request: Custom shaft length and diameter, shaft on both sides, special windings for specific voltages and speed, higher IP protection class, custom flanges and connectors 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			
Standard	#####				
Calculated data	#####				
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	A	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)	A	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	A	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	Kgcm²	2.83 x 10 ⁻⁴	2.83 x 10 ⁻⁴	2.83 x 10 ⁻⁴	2.83 x 10 ⁻⁴

Thermal data			Compatible products	
20 Ambient temperature	°C	40		
Mechanical data				
21 Radial load [distance from flange]	N [mm]	200 [15]		
Other data				
22 Number of poles		4		
23 Weight	Kg	4.10		
24 IP rating		IP21		
25 Enclosure		Ventilated		
26 Insulation Class		F		
27 Reversible		Yes		

Brake

2.0 Nm

+L mm

32.2

Gearbox

GB4/41

GB12

GB9

PGS62

PGS71

+L mm

110

110

138

44 - 90

49 - 99

Encoder

Optical

Magnetic

+L mm

9

12

Controller

SC 50/15

ESCON

EPOS

+L mm = approximate added length*

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

