BRx70-60 PMDC motor

Ø70 mm frame // 60 mm stack

20.2 ±0.5 L=146 22 ±1 FLYING LEADS 14 AWG 300mm RED & BLACK 45° 11.0 RED LEAD 2xM4 THRU 22.5 5.0 BLACK LEAD EQUI-SPACED ON 46.0 PCD 8% 000 Ø 24.9 0.0 4xM5 x 0.8 Φ 45 ø 8 DEEP EQUI-SPACED ò 53 ┣ E ON 48.0 PCD 4x M4 x 0.8 4x M5x 0.8 8 DEEP φ В 8 DEEP 2xM4 THRU EQUI-SPACED EQUI-SPACED EQUI-SPACED ON 36.0 PCD 6.00 5.95 ON 40.0 PCD 2.0 ON 62.0 PCD Ø74 2.45 NORTH POLE 4x M4x 0.7 8 DEEP EQUI-SPACED ON 49.0 PCD Ø $^{8.000}_{7.985}$ DETAIL B DETAIL A all dimensions in mm

Part number key					Available on request: Custom shaft length and diameter, shaft on both sides, special windi
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 co improvement, Parvalux periodically test their product range to ensure test results are as acc
Calculated data	######				and are therefore subject to change. Please ensure you are using the latest datasheets four
Technical data					
1 Part number		781095	781096	781097	
2 Nominal power	W	157	157	157	
3 Nominal voltage	v	12	24	48	
4 No load speed	rpm	3970	3580	3310	
5 No load current	Α	1.80	0.80	0.37	
6 Nominal speed	rpm	3000	3000	3000	
7 Nominal continuous torque (S1)	Nm	0.5	0.5	0.5	
8 Nominal continuous current (S1)	Α	21.0	9.0	4.2	
9 Max. intermittent torque (S2 - 15 minutes)	Nm	0.88	0.88	0.88	
10 Stall current	А	70.7	48.0	28.7	
11 Stall torque	Nm	1.8	2.8	3.6	
12 Stack length	mm	60	60	60	
13 Maximum efficiency	%	72	79	82	
14 Terminal resistance - phase to phase	Ω	0.10	0.36	1.51	
15 Terminal inductance - phase to phase	mH	0.15	0.81	3.29	
16 Speed constant	rpm/V	333.1	150.4	69.1	
17 Torque constant	Nm/A	0.026	0.060	0.130	
18 Speed torque gradient	rpm/Nm	2423	1383	985	
19 Rotor inertia	Kgcm ²	2.5 x 10 ⁻⁴	2.5 x 10 ⁻⁴	2.5 x 10⁻⁴	

Modular system Thermal data 20 Ambient temperature °C 40 Brake +L mm Gearbox +L mm 1.5 Nm 28.2 GB12 110 Mechanical data PGS71 49 - 99 PGS80 52 - 102 21 Radial load [distance from flange] 200 [15] N [mm] Other data 22 Number of poles 2 + + 23 Weight 2.25 Kg 24 IP rating IP54 + +L mm = approximate added length* 25 Enclosure Enclosed <u>م</u> 26 Insulation Class F Controller SC 50/15 ESCON 27 Reversible Yes Encoder +L mm Optical EPOS 9

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

parvalux

by **maxon**