



all dimensions in mm

Part number key			
Modular	#####		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 contact.
Standard	#####		
Calculated data	#####		

Technical data							
1 Part number		774940	774941	774942	774943	774944	774945
2 Nominal power	W	170	170	170	170	170	170
3 Nominal voltage	V	12	24	40	48	110	220
4 No load speed	rpm	3602	3869	3789	3748	3511	3726
5 No load current	A	1.80	1.31	0.41	0.77	0.29	0.11
6 Nominal speed	rpm	3000	3000	3000	3000	3000	3000
7 Nominal continuous torque (S1)	Nm	0.54	0.54	0.54	0.54	0.54	0.54
8 Nominal continuous current (S1)	A	18.3	10.6	5.6	4.9	2.1	1.1
9 Max. intermittent torque (S2 - 15 minutes)	Nm	0.70	0.70	0.70	0.70	0.70	0.70
10 Stall current	A	66.0	53.4	36.0	26.0	12.3	1.1
11 Stall torque	Nm	2.1	3.0	3.6	3.3	3.6	3.3
12 Stack length	mm	69	69	69	69	69	69
13 Maximum efficiency	%	73	71	81	75	73	74
14 Terminal resistance	Ω	0.18	0.45	1.13	1.85	8.97	36.00
15 Terminal inductance	mH	-	-	-	-	-	-
16 Speed constant	rpm/V	301	156	91	78	32	16
17 Torque constant	Nm/A	0.033	0.058	0.100	0.130	0.300	0.550
18 Speed torque gradient	rpm/Nm	1723	1284	1048	1146	975	1136
19 Rotor inertia	gcm²	3250	3250	3250	3250	3250	3250

Thermal data		
20 Ambient temperature	°C	40

Mechanical data		
21 Radial load [distance from flange]	N [mm]	200 [15]

Other data		
22 Number of poles		2
23 Weight	Kg	2.7
24 IP rating		IP54
25 Enclosure		Enclosed
26 Insulation Class		F
27 Reversible		Yes

Compatible products					
Gearbox	+L mm	Brake	+L mm	Encoder	+L mm
M Box	85.0	1.5 Nm	28.2	Incr. 5-pin	9.0
MIW	83.0	2.0 Nm	32.4	Incr. 10-pin	9.0
LWS	127.0	4.0 Nm	27.7	Diff. 10-pin	12.0
LIW	102.0	Power-on	26.4	Magnetic	12.0
LIS	108.0				
GB12	110.0	Controller		Key	
GB80	80.0	SC 50/15		Standard combination	
		ESCON		Modular combination	
		EPOS			

+L mm = approximate added length*

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