



all dimensions in mm

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

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.

Technical data							
1 Part number		775166	775167	775168	775169	775170	775171
2 Nominal power	W	273	273	273	273	273	273
3 Nominal voltage	V	12	24	40	48	110	220
4 No load speed	rpm	3562	3638	3846	3564	4091	3983
5 No load current	A	2.50	1.20	0.59	0.77	0.35	0.13
6 Nominal speed	rpm	3000	3000	3000	3000	3000	3000
7 Nominal continuous torque (S1)	Nm	0.87	0.87	0.87	0.87	0.87	0.87
8 Nominal continuous current (S1)	A	28.5	14.8	9.4	8.0	3.6	1.8
9 Max. intermittent torque (S2 - 15 minutes)	Nm	1.15	1.15	1.15	1.15	1.15	1.15
10 Stall current	A	112.0	76.0	54.0	55.0	17.4	8.7
11 Stall torque	Nm	3.7	4.8	5.3	6.4	4.5	4.7
12 Stack length	mm	81	81	81	81	81	81
13 Maximum efficiency	%	77	79	80	74	77	78
14 Terminal resistance	Ω	0.11	0.32	0.74	0.87	6.34	25.30
15 Terminal inductance	mH	-	-	-	-	-	-
16 Speed constant	rpm/V	285	146	92	73	37	17
17 Torque constant	Nm/A	0.034	0.064	0.098	0.120	0.260	0.530
18 Speed torque gradient	rpm/Nm	974	760	732	552	906	874
19 Rotor inertia	gcm²	4600	4600	4600	4600	4600	4600

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 2.9
24 IP rating	IP21
25 Enclosure	Ventilated
26 Insulation Class	F
27 Reversible	Yes

Compatible products			
Gearbox	+L mm	Brake	+L mm
M Box	85.0	1.5 Nm	28.2
MIW	83.0	2.0 Nm	32.4
LWS	127.0	4.0 Nm	27.7
LIW	102.0	Power-on	26.4
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