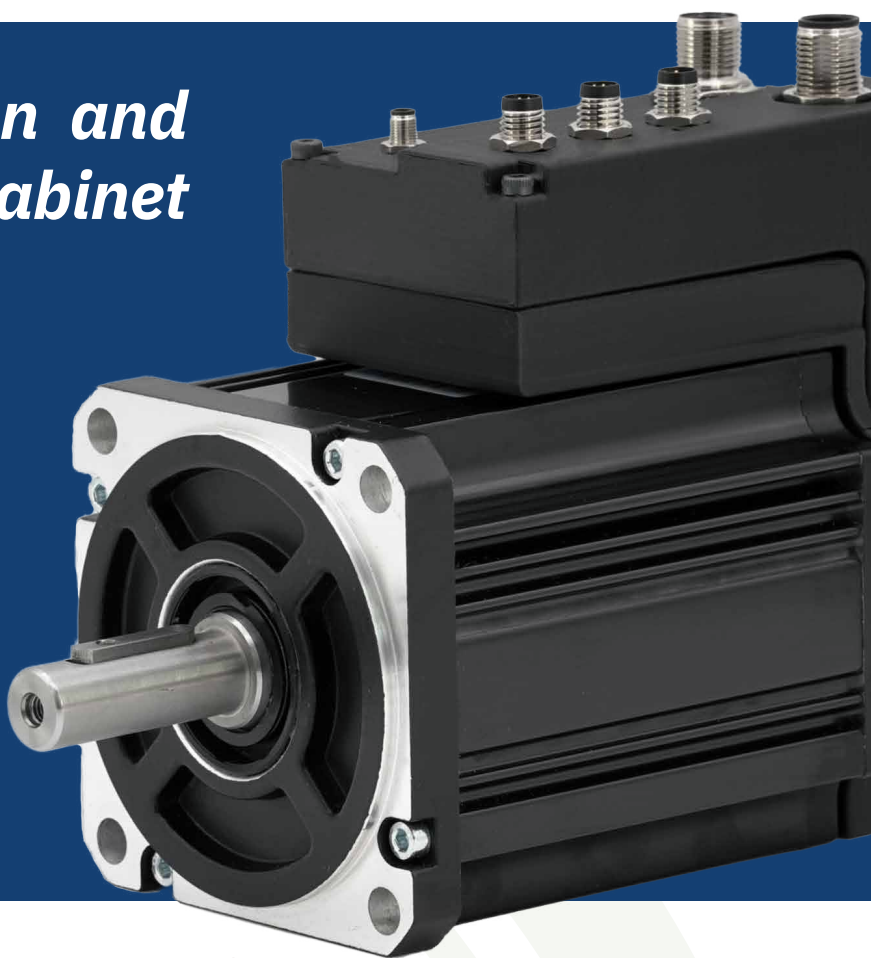


Simplify installation and cabling. Reduce cabinet space requirement.

■ Simplify installation and **Cut cost and parts requirement for cabling by half.** Plug and play Robotic grade high flexible cables are offered for power and I/O.

■ **STO and all Ethernet communication types** are supported. Integrated ethernet switching technology makes Ethernet communications even easier than any other competitor product.

■ Motor sizes follow existing DMM specifications. **Up to 1kW motor size is available in convenient mounting sizes.** The motor shaft, connectors and all seams are sealed with high density rubber gaskets.



Pulse/Analog  Modbus TCP EtherNet/IP EtherCAT 

Model#	DYN1-640	DYN1-57N	DYN1-880	DYN1-81A	DYN1-86M	DYN1-86N	DYN1-86H
Power Input	24~75VDC						
Motor Power / Voltage	400W / 60V		750W / 150V	1.0kW / 150V	750W / 150V		1.0kW / 150V
Rated/Peak Torque	1.27/3.82Nm		2.4/7.2Nm	3.18/11.1Nm	2.4/7.2Nm	2.4/7.2Nm	4/12Nm
Rated/Peak Speed*1	3000/5000rpm		1500/3000rpm				1000/2000rpm
Rated/Peak Current	8.4/21A		6.3/18.9A	5.75/20.7A	7.2/21.5A		8.3/24.9A
Torque Coefficient	0.181Nm/A	0.182Nm/A	0.378Nm/A	0.383Nm/A	0.335Nm/A		0.48Nm/A
Rotor Inertia (Brake) kg-cm^2	0.42 (0.51)	0.42 (0.51)	2 (2.3)	2.03 (2.54)	2.45 (2.94)	2.45 (2.94)	3.7 (4.2)
Frame / Shaft	□60mm φ14mm	□60mm φ6.35mm	□80mm φ19mm		□86mm φ14mm	□86mm φ12.7mm	□86mm φ14mm
Servo Mode	Position/Speed/Torque (Real-Time Mode Switching)						
Communication	Pulse, Analog, RS232, USB, Modbus TCP, EtherNet/IP, EtherCAT						
Encoder Option	16-bit Absolute Single Turn						
I/O	Inputs - Pulse, Analog, Enable			Outputs - Alarm, OnPosition, Index/Home			
STO / Brake	Optional STO / Optional +24VDC Brake						
IP Rating	IP65, Shaft Seal, Rubber Gaskets						

*1 Rated and Peak Speeds depends on DC voltage input

DYN1 - 640 - A 6 T K 1 - 00

Custom Code

Frame/Motor Power	
640	60mm/400W
57N	NEMA23/400W
880	80mm/750W
81A	80mm/1.0kW
86M	86mm/750W
86N	NEMA34/750W
86H	86mm/1.0kW

Communication	
A	Pulse/Analog
B	Modbus TCP
G	EtherNet/IP
E	EtherCAT

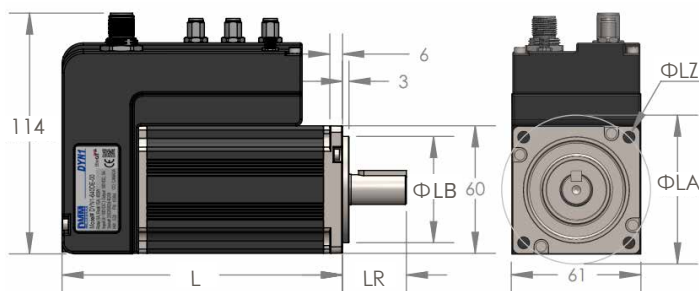
Motor Voltage	
T	60V
M	150V
Encoder Type	
6	16-bit Absolute Single-Turn
2	20-bit Absolute Single-Turn

Shaft	
K	Key
D	D-Cut

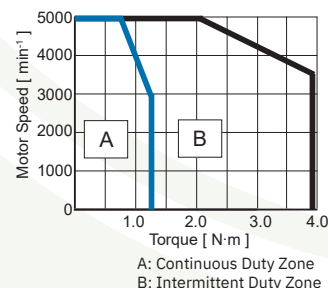
Brake+STO	
1	None
B	With Brake, no STO
T	With STO, no Brake
W	With STO and Brake

Dimensions in [mm]

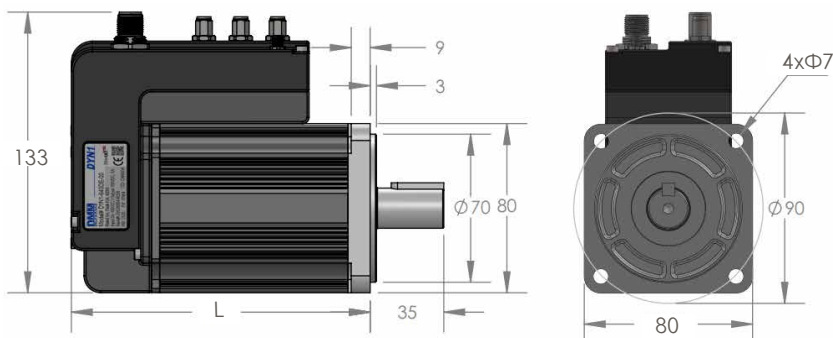
DYN1-640 (400W) DYN1-57N (400W)



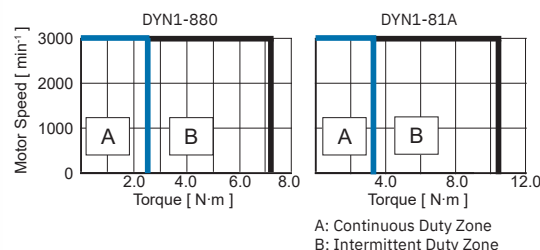
DYN1-	640	57N
L	107	107
LR	30	21
LB	50h7	38.1h7
ΦLA	70	66.5
ΦLZ	4xΦ5.7	4xΦ6.5
Shaft	Φ14mm 5mm Key	Φ6.35 Two Flats



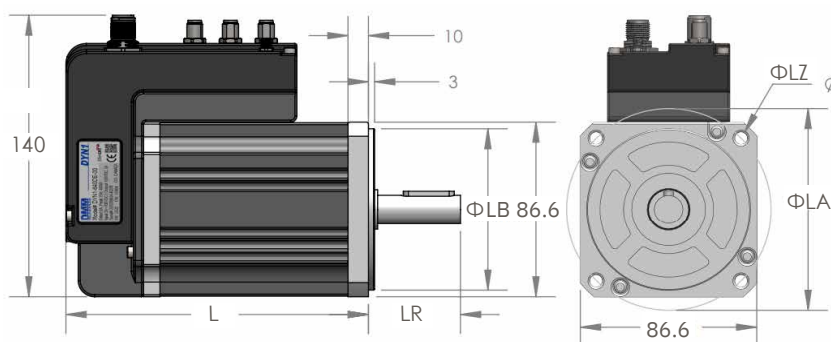
DYN1-880 (750W) DYN1-81A (1.0kW)



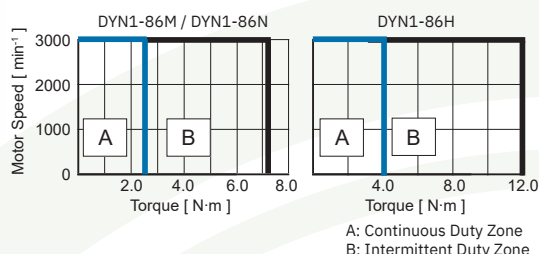
DYN1-	880	81A
L	142	158
Shaft	Φ19 6mm Key	



DYN1-86M (750W) DYN1-86N (750W) DYN1-86H (1.0kW)



DYN1-	86M	86N	86H
L	145	145	177
LR	45	37	45
LB	80h7	73h7	80h7
ΦLA	100	98.3	100
ΦLZ	4xΦ6.5	4xΦ6.5	4xΦ6.5
Shaft	Φ14mm 5mm Key	Φ12.7 Two Flats	Φ14mm 5mm Key



Connector + Cables

Cable	Part#	X - Length	Side A - DYN1	Cable *1	Side B - Controller
JP1 DC Power Cable	CAB-PW-LH X -SSP	3,5,10,15m	M12 Connector	14AWG	Flying Lead with twisted and soldered ends
JP2 Comm Cable	CAB-IO-LH X -TSP		M5 Connector	24AWG	
JP4 I/O Cable	CAB-ETH-LH X -TSP	M12 Connector			
JP5 Ethernet Cable	CAB-STO-LH X -TSP	M8 Connector			
JP7 STO Cable	CAB-USB-LH X -TSP	3m	M8 Connector		

*1 All cables are shielded, robotic grade high flexibility cables.



DMM Technology Corp.
120 - 21320 Gordon Way
Richmond, British Columbia V6W1J8
Canada

Tel: +1 (604) 370-4168
Fax: +1 (604) 285-1989
sales@dmm-tech.com
www.dmm-tech.com

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