COMPACT WHEEL DRIVE







Compact Design with Minimal Axial Length

Exceptional power in a compact size, offering efficiency and performance in applications where space and power are critical.

Exceptional Radial Load Capacity

Ensures robust support and stability in demanding applications, enabling the drives to handle heavy-duty tasks with ease while maintaining precision and efficiency.

Smooth Motion and High Reliability

Delivers smooth and precise motion, coupled with high reliability - ensuring minimal downtime and maintenance.

Best-in-class Power Density

Offering efficiency and performance in applications where space and power are critical.

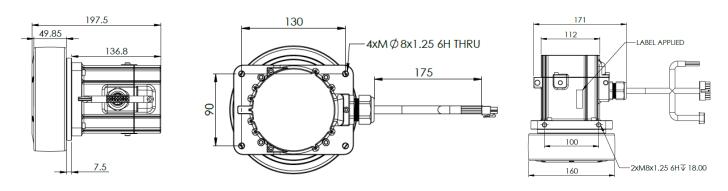
Low Noise Operation

Enhancing the work atmosphere and complying with noise regulations.

Technical Specifications

Parameter	Units	Value
Continuous Output Torque	Nm	40
Acceleration Torque	Nm	100
Emergency Torque	Nm	150
Nominal Output Velocity	rpm	240
Maximum Output Velocity	rpm	300
Ratio	-	15:1
Reducer Efficiency	%	90
Noise Level @ nominal Velocity and load	dBA/1 m	<75
Backlash	Arcmin	<30
Life expectancy	Hrs.	> 30,000
Bus Voltage	VDC	48
Power	Watts	1200
Wheel Diameter	Mm	160
Radial Load	N	8000
Encoder Resolution	Counts	16,384
Halls	-	Υ
Optional Brake Torque	Nm	10
Ambient Operating Temperature	Celsius	-10 to 40
Protection Class		IP54

Dimensional Drawing



Cable and Connection

FLYING LEADS (POWER & BRAKE)								
FUNCTION	N PHASE A PHASE B PHASE C BRAKE 1 BRAKE 2							
COLOR	OR YELLOW GREEN BLACK 2 CONDUCTOR CABL							

HALLS CONNECTOR: JST PHR-6 (MATES WITH XXX)								
FUNCTION	GND	+5V	HALL A	HALL C	HALL B	TEMP		
PIN#	1	2	3	4	5	6		

ENCODER CONNECTOR: 39-01-2160 USING 39-00-0184 CONTACTS (EXAMPLE MATE: 39-01-2161)															
FUNCTION	A+	A-	B+	B-	Z+	Z-	U+	U-	۷+	V-	W+	W-	+5\	GND	SHLD
PIN#	15	8	14	16	13	6	3	9	4	10	5	11	12	7	1

Motor Specifications

Parameter	Unit	Value				
Rated Power	W	1000				
Rated Voltage	V _(DC)	48				
Continuous Stall Torque	N-m	3.18				
Max Torque	N-m	6.50				
Rated/Max Speed	Rpm	3600/4300				
Rated Current	A _(peak)	28.5				
Max Current	A _(peak)	54				
Ке	V _(peak) /Krpm	11.2				
Kt	Nm/A _(peak)	0.12				
Resistance	Ω	0.06				
Inductance	mH	0.20				
Number of Poles	#	8				
Operating Environment	0-40 °C					
	Humidity 95% RH (free from condensing)					
Storage Environment	0-	40 °C				
	Humidity 95% RH (free from condensing)					
Insulation	Class H (180 °C Winding Temperature)					
Duty Class	Continuous					
Feedback Sensor	16384 counts/rev.					