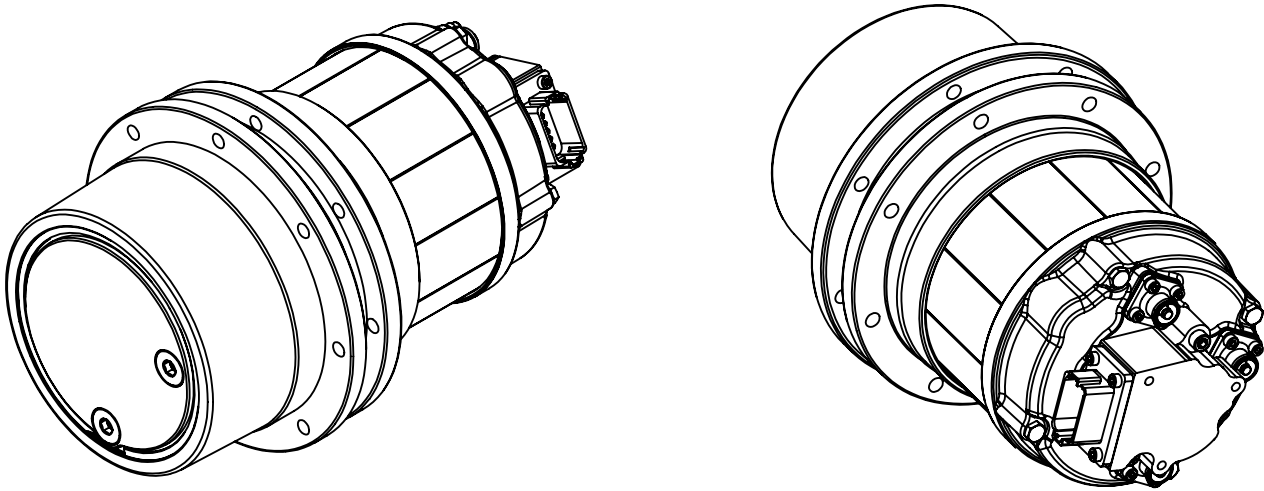
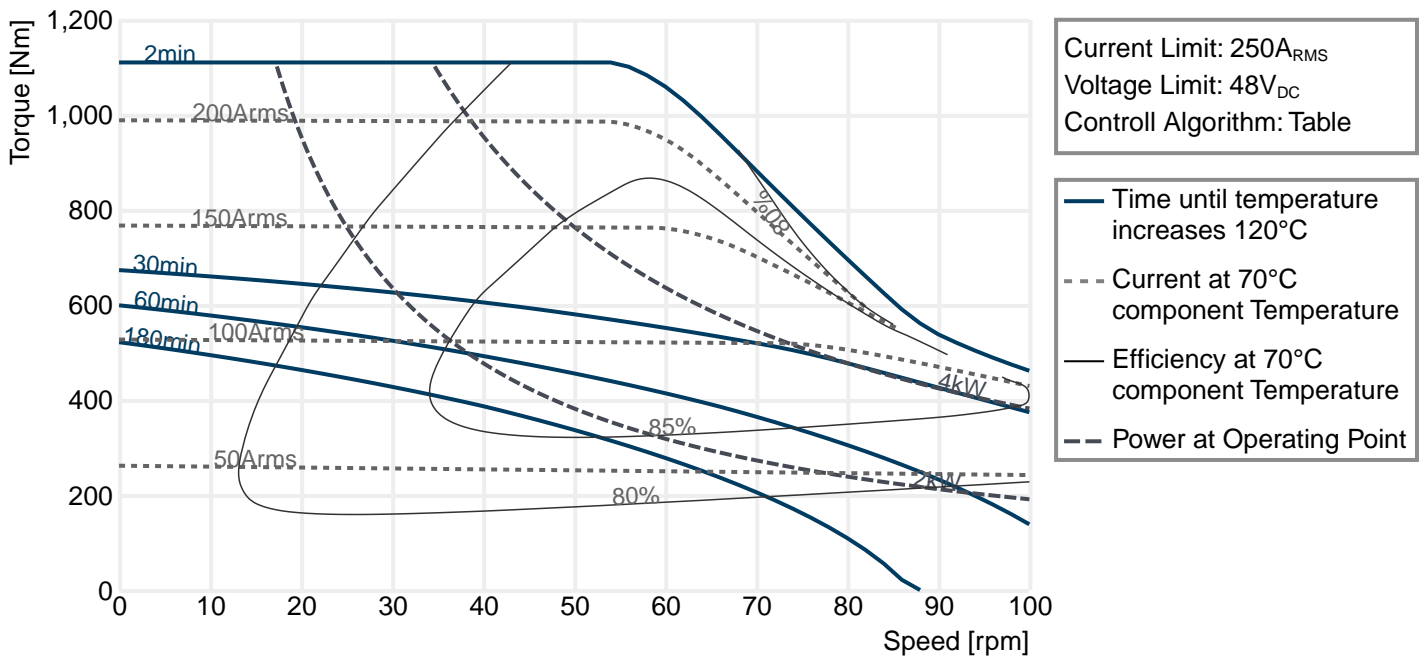


MODEL: M160i2-72-18-i42.7-B48V-AC96_AT
 SUPPLY: 48V_{DC} / 250A_{RMS}



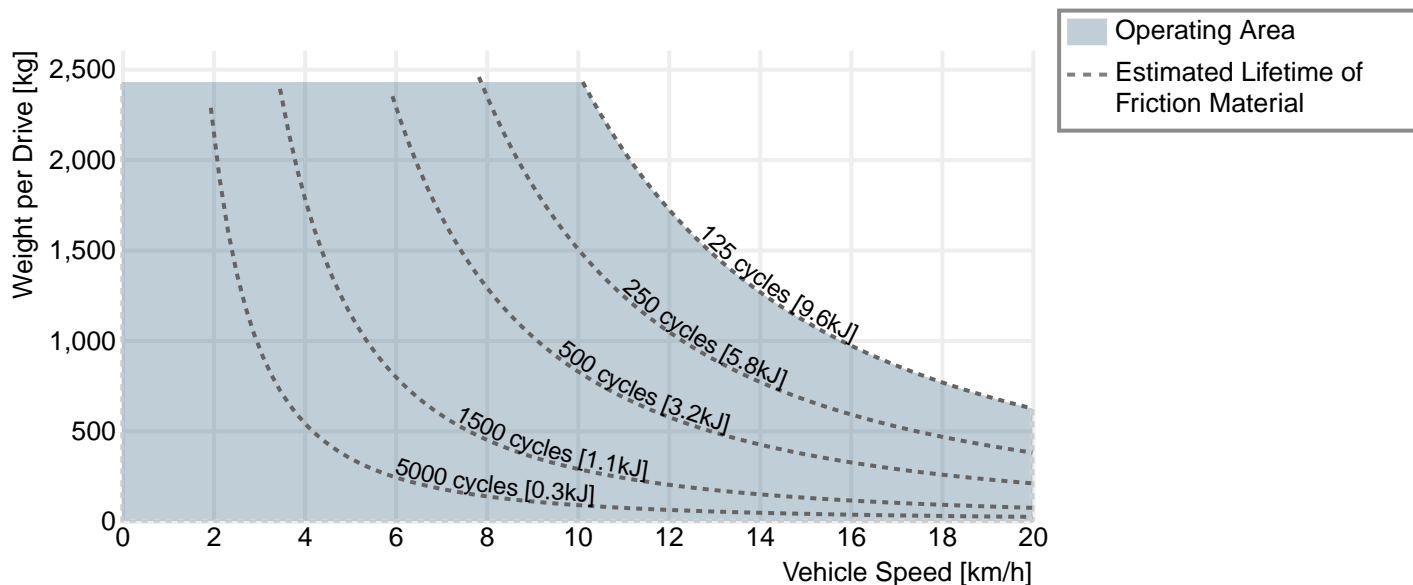
DRIVE PERFORMANCE



Engine Type	IPM	
Number of Poles	8	
Reducer Ratio	42.70	
Peak Torque (Flange)	1110 Nm	
Peak Current	222 Arms	
Torque Constant (Shaft / Flange)	0.11 Nm/Arms	4.7 Nm/Arms
Back EMF Const. (Line to Line @ motor shaft)	PEAK: 9.5 V/1000min-1	RMS: 6.7 V/1000min-1
Electrical Resistance @ 25°C	5 mOHM	
Electrical Inductance	Lq: 142 μH	Ld: 122 μH

BRAKE

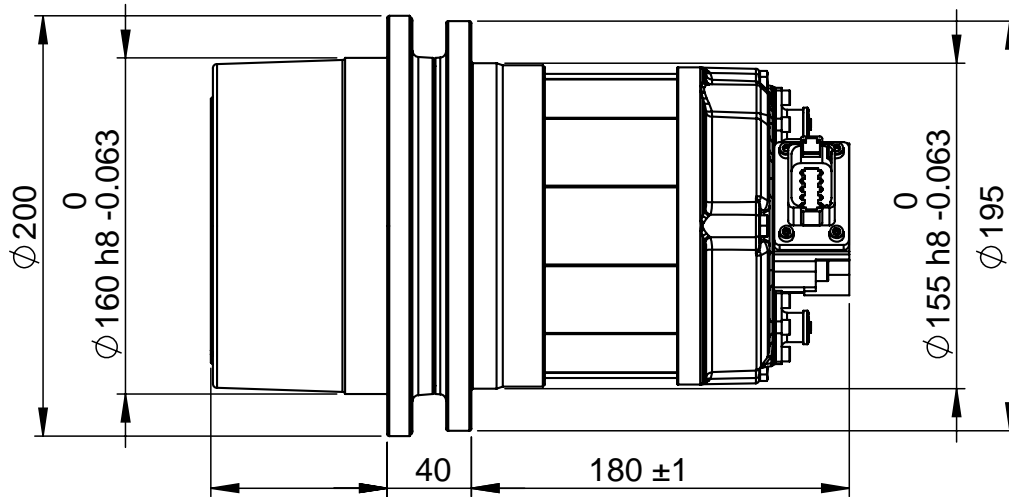
Brake Type	Negative Type Electric Disk Brake
Function Principle	Braked Engine Shaft
Nominal Voltage	48VDC
Typ. Braking Torque	1110 Nm
Typ. Resistance	44.5 OHM
Brake Type	Negative Type Electric Disk Brake



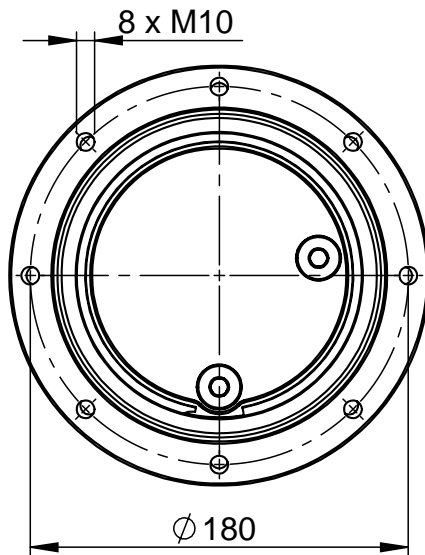
The number of possible cycles has been evaluated with flywheel-tests. The number of possible cycles in the real application will also depend on the inclination. The condition of the brake must be checked in the application

DIMENSIONS

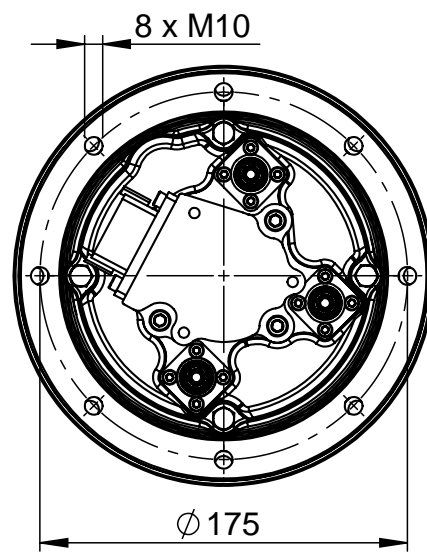
SIDE VIEW



ROTATING FLANGE



FIXED FLANGE

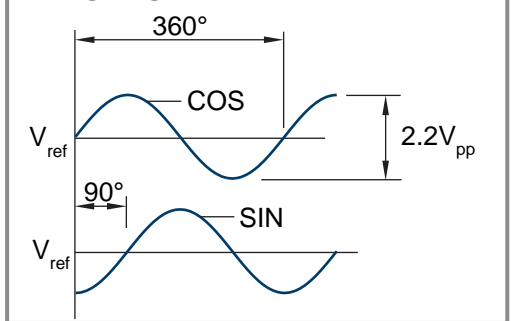


SENSOR

Analogue sinusoidal Output

Power supply	Vdd = 5 V \pm 5 %
Current consumption	Max. 30 mA
Internal serial impedance	100 OHM
Signal amplitude	2.2 \pm 0.2 V _{pp}
Signal offset	2.5 V \pm 1 %

Timing Diagram



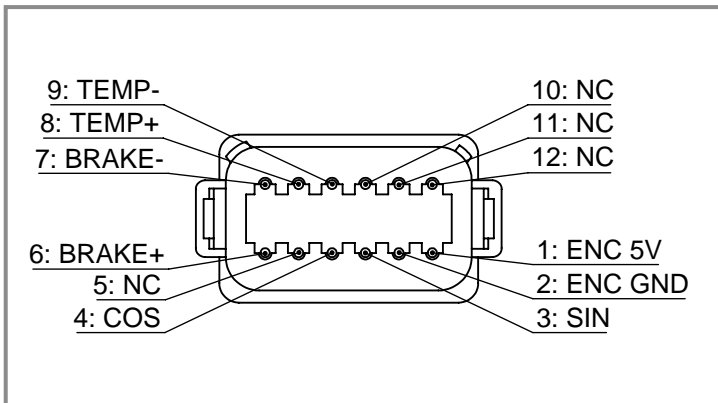
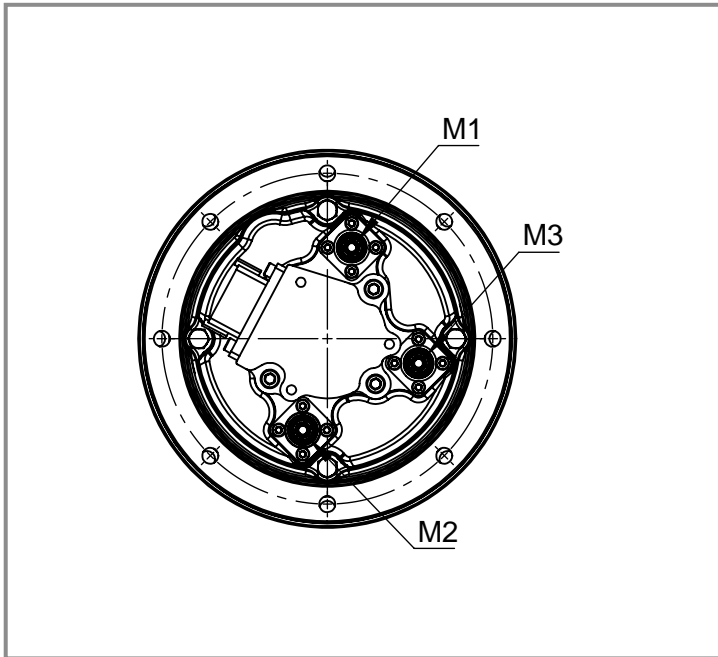
TEMPERATURE SENSOR

Sensor Type	PT1000
Number of Sensors	1x
Position of Temperature Sensor	Encapsulated between stator winding


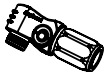
Table of the Resistance values:

-40 °C	843 OHM	60 °C	1232 OHM
-30 °C	882 OHM	70 °C	1271 OHM
-20 °C	922 OHM	80 °C	1309 OHM
-10 °C	961 OHM	90 °C	1347 OHM
0 °C	1000 OHM	100 °C	1385 OHM
10 °C	1039 OHM	110 °C	1423 OHM
20 °C	1078 OHM	120 °C	1461 OHM
30 °C	1117 OHM	130 °C	1498 OHM
40 °C	1155 OHM	140 °C	1536 OHM
50 °C	1194 OHM	150 °C	1573 OHM
60 °C	1232 OHM	160 °C	1611 OHM



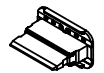
CONNECTIONS



Mating Power Connectors

	Part Mfg # I&W # Mfg	Surlock Plus 5.7mm (16mm ²) SLPPA16BSO P0052_0013 Amphenol
	Part Mfg # I&W # Mfg	Surlock Plus 5.7mm (25mm ²) SLPPA25BSO P0052_0014 Amphenol

Mating Signal Connectors

	Part Mfg # I&W # Mfg	Plug DT06-12SA P0052_0066 TE
	Part Mfg # I&W # Mfg	Socket 1062-16-xxxx - TE
	Part Mfg # I&W # Mfg	Wedge Lock W12S-P012 P0052_0068 TE