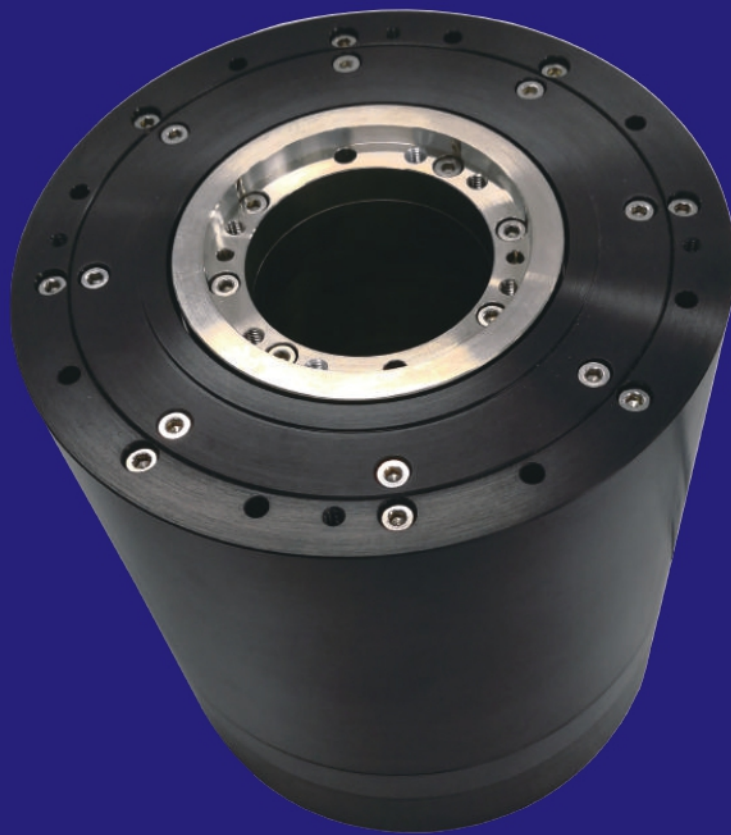


ADR-H series

Direct drive and brushless motor
High torque density
Low rotor inertia
Suitable for indexing application
(such as turret design)





ADR-H Series

Direct drive and brushless motor

High torque density

Low rotor inertia

Suitable for indexing application (such as turret design)

Specifications

ADR-H

Performance Parameters	Units	ADR152-H195		ADR152-H195	
		Self-Cooled		Air-Cooled	
Series or Parallel	S/P	S	P	S	P
Continuous Torque@100°C	Nm	33.6	33.6	37.4	37.4
Peak Torque	Nm	90.0	90.0	100.0	100.0
Cogging Torque (pk to pk)	Nm	0.19	0.19	0.19	0.19
Torque Constant	Nm/Arms	9.6	4.8	9.6	4.8
Back Emf Constant	Vpk/ krpm	0.82	0.41	0.82	0.41
Motor Constant	Nm/√watt	2.8	2.8	2.8	2.8
Resistance (Terminal to Terminal) ^①	Ω	8	2	8	2
Inductance (Terminal to Terminal)	mH	78.8	19.7	78.8	19.7
Electric Time Constant	ms	9.9	9.9	9.9	9.9
Continuous Current@100°C ^②	Arms	3.5	7.0	3.9	7.8
Peak Current	Arms	10.5	21	11.7	23.4
Continuous Power Dissipation @100°C	W	190.2	190.2	236.2	236.2
Max.Coil Temperature	°C	100	100	100	100
Thermal Dissipation Constant@100°C	W/°C	2.5	2.5	3.1	3.1
Max.Bus Voltage	Vdc	600	600	600	600
Pole Number	-	16	16	16	16
Overall Mass	kg	13.3	13.3	13.3	13.3
Rotor Inertia	kg.m ²	0.0045	0.0045	0.0045	0.0045
Max.speed @230V ac ^③	rpm	230	530	210	510
Encoder Parameters	Units	ADR152-H195		ADR152-H195	
		Self-Cooled		Air-Cooled	
ABI Optical Incremental Encoder (SINCOS)	lines/rev	4103		4103	
ABI Optical Incremental Encoder (64X)	counts/rev	262592		262592	
Accuracy with Error Mapping	arc sec	+/-4.0		+/-4.0	
Repeatability	arc sec	+/-2.0		+/-2.0	
Mechanical Parameters	Units	ADR152-H195		ADR152-H195	
		Self-Cooled		Air-Cooled	
Axial Runout	μm	20		20	
Radial Runout	μm	20		20	
Max Axial Load (Upright Mounting)	N	900		900	
Max Axial Load (Inverted/Wall Mounting)	N	72		72	
Max Moment Load (Upright Mounting)	Nm	50		50	
Max Moment Load (Inverted/Wall Mounting)	Nm	4		4	

① Terminal to terminal, at 25 Deg C

② Limited by Bus Voltage and Encoder Output Frequency, and the speed is based on peak torque. See max.speed in torque speed curve

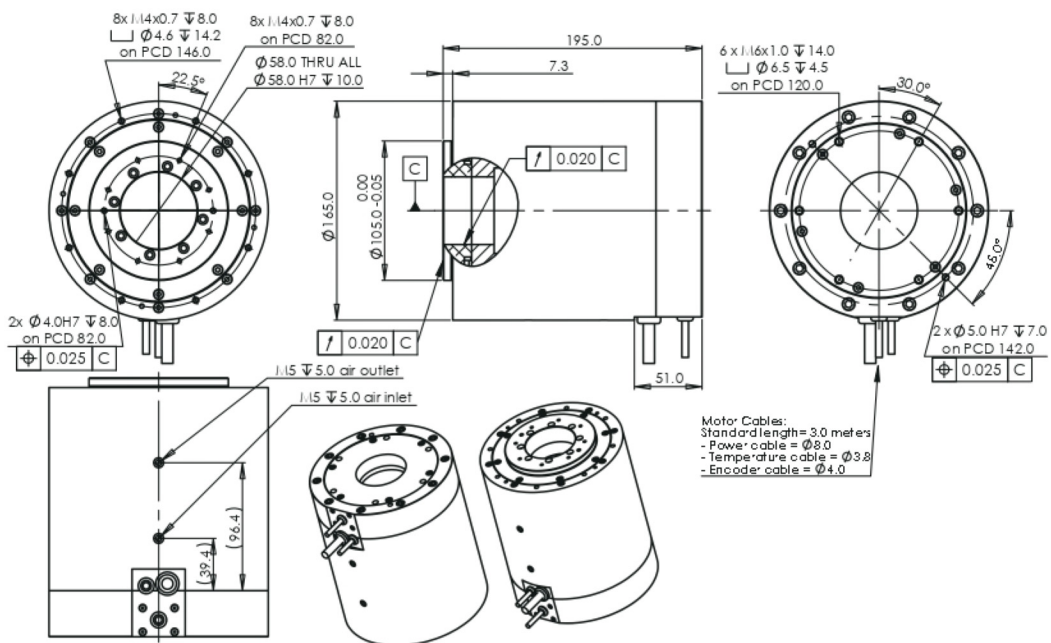
③ Based on ABI SINCOS Encoder and 4096x interpolator

Note: Except dimensions and encoder resolution , all the specifications in the table are +/-10% tolerance

ADR-H

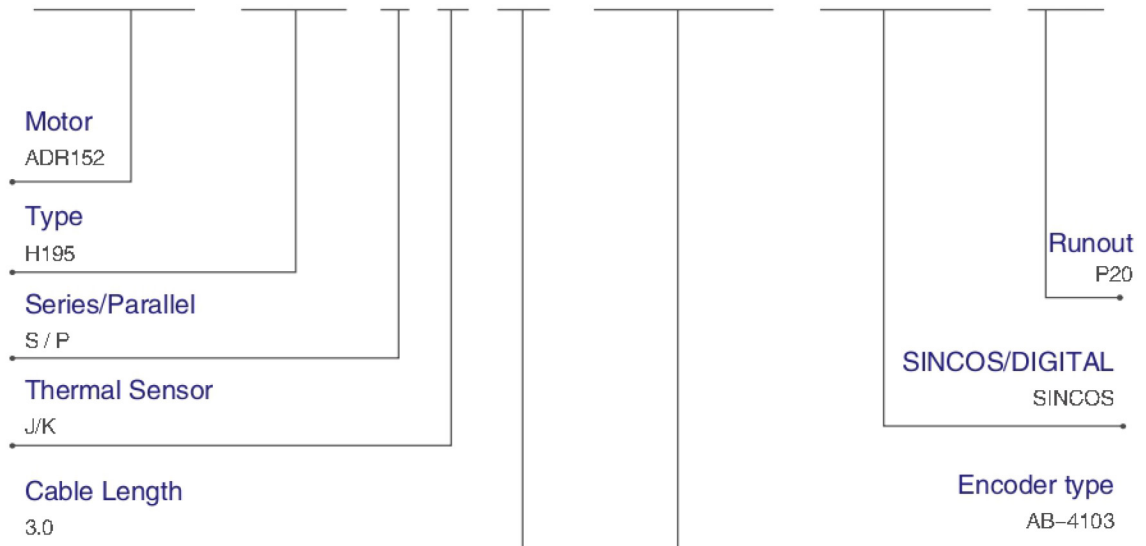
Dimensions/Part Numbering

ADR152-H195



Part Numbering

ADR152-H195-S-J-3.0-AB-4103-SINCOS-P15

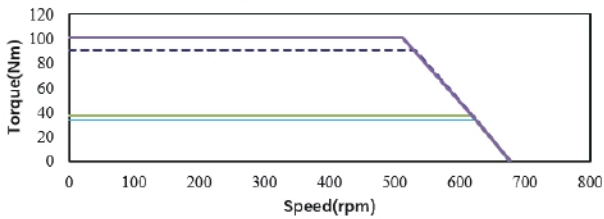


ADR-H

Successful case

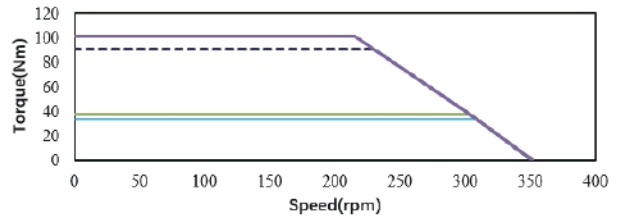
Torque-Speed-Curve

Torque speed curve-ADR152-H195-Parallel-
@DC bus voltage 310V (SINCOS/DIGITAL)



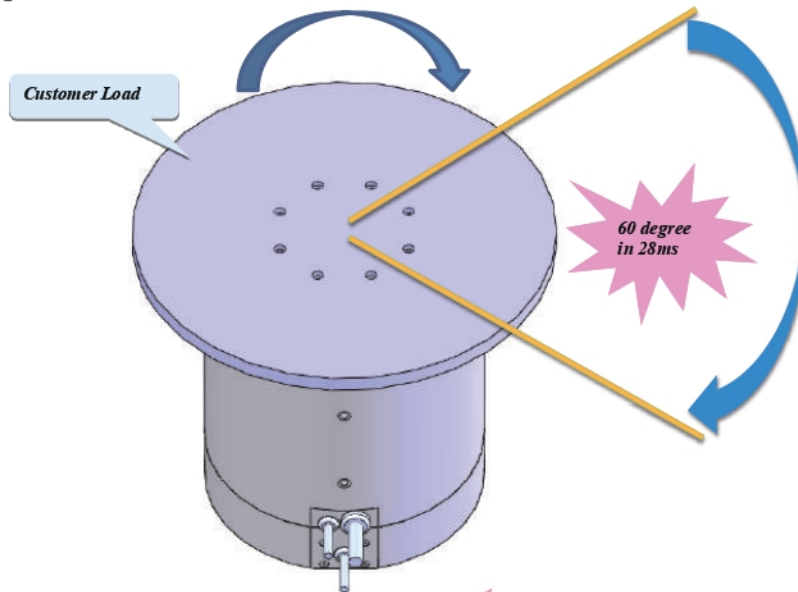
— continuous torque with self cooling --- peak torque with self cooling
— continuous torque with air cooling --- peak torque with air cooling

Torque speed curve-ADR152-H195-Series-
@DC bus voltage 310V (SINCOS/DIGITAL)



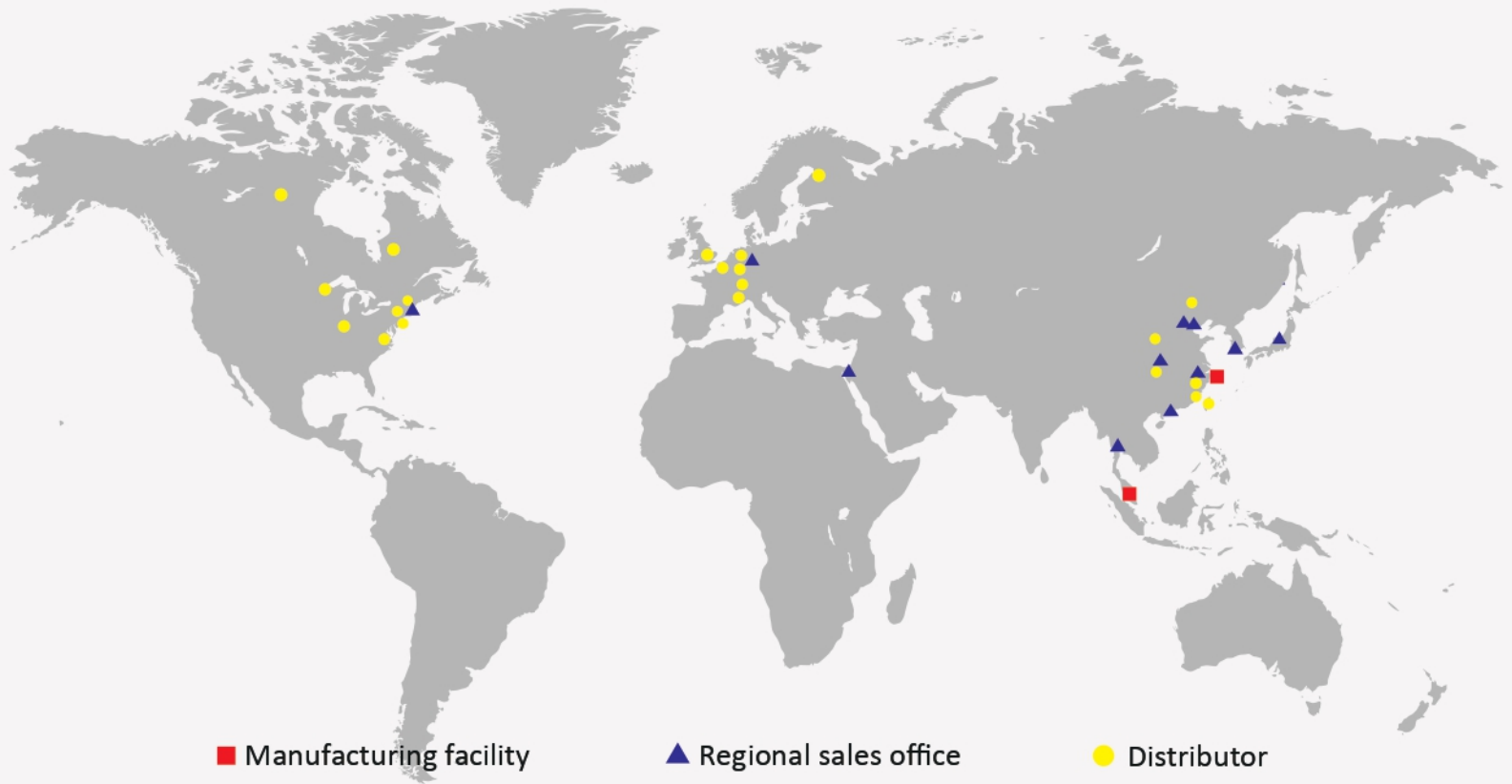
— continuous torque with self cooling --- peak torque with self cooling
— continuous torque with air cooling --- peak torque with air cooling

Successful case



*Load inertia: 0.002kg*m²;
60 degree indexing motion in 28ms;
Dwell for 50ms, repeat cycle;
Tested Accuracy: 21.96 arc sec*

Akribis Worldwide Offices and Distribution Network



Headquarters:

Akribis Systems Pte Ltd

5012 Techplace II Ang Mo Kio Ave 5
#01-05 Singapore 569876
Tel: (65) 6484 3357

Branches:

Akribis Systems (Shanghai)

No. 6999, Chuansha Road, A2
Pudong New Area, 201202,
Shanghai, China
Tel: (86) 21 5859 5800

Akribis Systems (US West)

780 Montague Expressway Suite 508
San Jose, CA 95131, USA
Tel: (1) 408 913 1300

Akribis Systems (US East)

100 Cummings Center Suite 212-D
Beverly, MA 01915, USA
Tel: (1) 508 934 7480

Akribis Systems (Germany)

Am Weichselgarten 19a
91058 Erlangen, Germany
Tel: (49) 9131 811790

Akribis Systems (Thailand)

No. 56/2 Chanothai , Khlong 3 ,
Khlong Luang Road, Khlong Luan,
Pathum thani, 12120, Thailand
Tel: (66) 8515 10088

Akribis Systems (Taiwan)

9/f, 985-8, Chunri Road,
Taoyuan District, Taoyuan ,Taiwan
Tel: (886) 3 3461082

Akribis Systems (Japan)

Excellent TR 1F 3-43-9 Musashidai
Fucyu-city Tokyo 183-0042 Japan
Tel: (81) 42 359 4295

Akribis Systems (Israel)

6 Yad-Harutsim St., Industrial Zone,
Kfar-Saba 4464103, Israel.
Tel: (972) 5459 0958 9

Akribis Systems (Korea)

4th floor, 81, Bupyeongbuk-ro, Bupyeong-gu,
Incheon, 21302, Rep. of KOREA
Tel: (82) 32 710 5033

Akribis Systems (Malaysia)

No.1, Jalan KPB 16, Balakong Industrial Park,
43300 Seri Kembangan, Selangor Darul Ehsan.
Tel: (603) 8964 4008

Akribis Systems (Beijing)

No.804, Building 7 Bao Li Da Du Hui,
No. 156 Xinhua North Street,
Tongzhou District, Beijing
Tel: (010) 56865157



cust-service@akribis-sys.cn
www.akribis-sys.com