

Data sheet for three-phase Squirrel-Cage-Motors SIMOTICS SIMOTICS GP - 100 L - IM B3 - 8p Motor type : 1AV3104D Offer no. Client order no. Item-No. Order no. Consignment no. Project Remarks Electrical data Safe Area П Δ/Υ f Р Р ī n М η 3) cosφ ³⁾ I_A/I_N M_A/M_N M_K/M_N IE-CL [V] [Hz] [kW] [hp] [A] [1/min] [Nm] I_I/I_N T_I/T_N T_B/T_N 4/4 3/4 2/4 4/4 3/4 2/4 **DOL duty (S1)** - 155(F) to 130(B) 230 Δ 50 0.75 3.75 710 10.1 75.0 75.7 73.1 0.67 0.58 0.45 2.1 IE3 -/-75.7 0.58 400 50 0.75 710 10.1 75.0 73.1 0.67 0.45 3.7 1.5 2.1 IE3 2.10 IM B3 / IM 1001 FS 100 L IP55 UKCA IEC/EN 60034 IEC, DIN, ISO, VDE, EN Environmental conditions: -20 °C - +40 °C / 1000 m Locked rotor time (hot / cold): 49 s | 62.5 s Mechanical data 61.4 / 69.4 dB(A) Sound level (SPL / SWL) at 50Hz|60Hz 64 / 72 dB(A) 2) 3) Vibration severity grade Α Moment of inertia 0.0096 kg m² Thermal class F Bearing DE | NDE 6206 2Z C3 6206 2Z C3 Duty type S1 bearing lifetime Direction of rotation bidirectional $L_{10mh}\,F_{Rad\,min}$ for coupling operation $50|60Hz^{\,1)}$ 40000 h 32000 h Frame material aluminum Regreasing device Without Net weight of the motor (IM B3) 20 kg Grease nipple Coating (paint finish) Standard paint finish C2 Type of bearing Preloaded bearing DE Color, paint shade RAL7030 Condensate drainage holes Without Motor protection (A) without (Standard) External earthing terminal Without Method of cooling IC411 - self ventilated, surface cooled Terminal box Terminal box position top Max. cross-sectional area Material of terminal box Aluminium Cable diameter from ... to ... 11 mm - 21 mm Type of terminal box TB1 F00 Cable entry 2xM32x1,5 Contact screw thread M4 Cable gland 2 plugs Notes: I_A/I_N = locked rotor current / current nominal 1) L10mh according to DIN ISO 281 10/2010 3) Value is valid only for DOL operation with motor design IC411 M_A/M_N = locked rotor torque / torque nominal

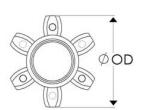
$M_b/M_{\rm N}$ = break down torque / nominal torque									
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JD36/57-92Y

Ruland JD36/57-92Y, Jaw Coupling Spider, 92 Shore A Yellow, 2.250" (57.2mm) OD, Balance of Torque & Dampening





Description

Ruland JD36/57-92Y is a zero-backlash jaw coupling spider designed to fit Ruland hubs that have an. It is a component in a three-piece design consisiting of two aluminum hubs and an elastomeric insert called the spider creating a lightweight low inertia coupling capable of speeds up to 8,000 RPM. This three-piece design allows for a highly customizable coupling that easily combines clamp or set screw hubs with inch, metric, keyed, and keyless bores. JD36/57-92Y is made from polyurethane and has 85 Shore A hardness allowing for a good balance of dampening and torque capacity. Ruland jaw couplings have a balanced design for reduced vibration at high speeds. Hardware is metric and tests beyond DIN 912 12.9 standards for maximum torque capabilities. JD36/57-92Y is RoHS3 and REACH compliant.

Product Specifications

Outer Diameter (OD)	2.250 in (57.2 mm)	Rated Torque	285 in-lb (32.21 Nm)
Angular Misalignment	0.9°	Peak Torque	570 in-lb (64.6 Nm)
Parallel Misalignment	0.005 in (0.13 mm)	Torsional Stiffness	250.0 lb-in/Deg (28.57 Nm/Deg)
Moment of Inertia	0.03690 lb-in ² (1.080 X 10 ⁻⁵ kg-m ²)	Axial Motion	0.050 in (1.27 mm)
Maximum Speed	8,000 RPM	Full Bearing Support Required?	Yes
Zero-Backlash?	Yes	Weight (lbs)	0.063700
Temperature	-10°F to 180°F (-23°C to 82°C)	Material Specification	Polyurethane 92 Shore A YELLOW
Finish Specification	Plain	Manufacturer	Ruland Manufacturing
UPC	634529068991	Country of Origin	USA
Tariff Code	8483.60.8000	UNSPC	31163011
Recommended Gap Between Hubs	0.050 in (1.25 mm)		
Note 1	Performance ratings are for guidance	ce only. The user must determine su	itability for a particular application.
Note 2	normal/typical conditions the hubs a cases, especially when the smalles shaft is possible below the nominal		inal torque of the spiders. In some shafts are undersized, slippage on the available to provide additional torque
Prop 65	This product does not require a war	rning.	
Installation Instructions	•	-	

Installation Instructions

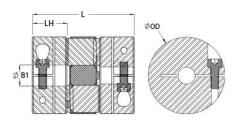
- 1. Align the bores of the jaw coupling hubs on the shafts that are to be joined and determine if the misalignment parameters are within the limits of the coupling. (Angular Misialignment: 0.9 deg, Parallel Misalignment. 0.005 in (0.13 mm), Axial Motion: 0.05 in (1.27 mm))
- 2. Fully tighten the screw(s) on the first hub to the recommended seating torque using a hex torque
- 3. Insert a spider into the jaws of the first hub until the raised points contact the base of the hub.
- 4. Insert the jaws of the second hub into the spider openings until the raised points contact the base of the second hub. Some force will be required to insert the second hub. This is normal.
- 5. Assure that a gap is maintained between the two hubs so there is no metal to metal contact. Fully tighten the screw(s) on the second hub to the recommended seating torque.





MJC57-18-A

Ruland MJC57-18-A, 18mm Jaw Coupling Hub, Aluminum, Clamp Style, 57.2mm OD, 28.7mm Length





Description

Ruland MJC57-18-A is a clamp zero-backlash jaw coupling hub with a 18mm bore, 57.2mm OD, and 28.7mm length. It is a component in a three-piece design consisiting of two aluminum hubs and an elastomeric insert called the spider creating a lightweight low inertia coupling capable of speeds up to 8,000 RPM. This three-piece design allows for a highly customizable coupling that easily combines clamp or set screw hubs with inch, metric, keyed, and keyless bores. Spiders are available in three durometers allowing the user to tailor coupling performance to their application. Ruland jaw couplings have a balanced design for reduced vibration at high speeds. Hardware is metric and tests beyond DIN 912 12.9 standards for maximum torque capabilities. MJC57-18-A is machined from bar stock that is sourced exclusively from North American mills and is RoHS3 and REACH compliant. It is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

Product Specifications

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Bore (B1)	18 mm	B1 Max Shaft Penetration	28.7 mm
Outer Diameter (OD)	2.250 in (57.2 mm)	Bore Tolerance	+0.03 mm / -0.00 mm
Hub Width (LH)	28.7 mm	Length (L)	3.150 in (80.0 mm)
Recommended Shaft Tolerance	+0.000 mm / -0.013 mm	Forged Clamp Screw	M6
Number of Screws	1 ea	Screw Material	Alloy Steel
Screw Finish	Black Oxide	Hex Wrench Size	5.0 mm
Seating Torque	16 Nm	Torque Specifications	Torque ratings vary with insert selection
Misalignment	Misalignment ratings vary with insert selection	Maximum Speed	8,000 RPM
Moment of Inertia	9.331 x 10 ⁻⁵ kg-m ²	Full Bearing Support Required?	Yes
Recommended Inserts	JD36/57-98R, JD36/57-92Y	Zero-Backlash?	Yes
Balanced Design	Yes	Fail Safe?	Yes
Weight (lbs)	0.441500	Temperature	-10°F to 180°F (-23°C to 82°C)
Material Specification	2024-T351 Aluminum Bar	Finish	Bright
Finish Specification	Bright, No Plating	Manufacturer	Ruland Manufacturing
Recommended Gap Between Hubs	0.050 in (1.25 mm)	Country of Origin	USA
UPC	634529067932	UNSPC	31163011
Tariff Code	8483.60.8000		
Note 1	Stainless steel hubs are available u	pon request.	
Note 2	Performance ratings are for guidance	ce only. The user must determine su	itability for a particular application.
Note 3	normal/typical conditions the hubs a cases, especially when the smalles shaft is possible below the nominal		inal torque of the spiders. In some shafts are undersized, slippage on the available to provide additional torque
Prop 65		pose you to the chemical Ethylene The defects or other reproductive harm.	· · · · · · · · · · · · · · · · · · ·

Installation Instructions

1. Align the bores of the MJC57-18-A jaw coupling hubs on the shafts that are to be joined and

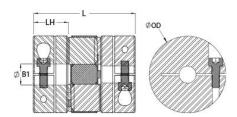
- determine if the misalignment parameters are within the limits of the coupling. (See spider for misalignment parameters.)
- 2. Fully tighten the M6 screw(s) on the first hub to the recommended seating torque of 16 Nm using a 5.0 mm hex torque wrench.
- 3. Insert a spider into the jaws of one hub until the raised points contact the base of the hub.
- 4. Insert the jaws of the second hub into the spider openings until the raised points contact the base of the second hub. Some force will be required to insert the second hub. This is normal.
- 5. Assure that a gap is maintained between the two hubs so there is no metal to metal contact. Fully tighten the screw(s) on the second hub to the recommended seating torque.





MJC57-22-A

Ruland MJC57-22-A, 22mm Jaw Coupling Hub, Aluminum, Clamp Style, 57.2mm OD, 28.7mm Length





Description

Ruland MJC57-22-A is a clamp zero-backlash jaw coupling hub with a 22mm bore, 57.2mm OD, and 28.7mm length. It is a component in a three-piece design consisiting of two aluminum hubs and an elastomeric insert called the spider creating a lightweight low inertia coupling capable of speeds up to 8,000 RPM. This three-piece design allows for a highly customizable coupling that easily combines clamp or set screw hubs with inch, metric, keyed, and keyless bores. Spiders are available in three durometers allowing the user to tailor coupling performance to their application. Ruland jaw couplings have a balanced design for reduced vibration at high speeds. Hardware is metric and tests beyond DIN 912 12.9 standards for maximum torque capabilities. MJC57-22-A is machined from bar stock that is sourced exclusively from North American mills and is RoHS3 and REACH compliant. It is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

Product Specifications

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Bore (B1)	22 mm	B1 Max Shaft Penetration	28.7 mm
Outer Diameter (OD)	2.250 in (57.2 mm)	Bore Tolerance	+0.03 mm / -0.00 mm
Hub Width (LH)	28.7 mm	Length (L)	3.150 in (80.0 mm)
Recommended Shaft Tolerance	+0.000 mm / -0.013 mm	Forged Clamp Screw	M6
Number of Screws	1 ea	Screw Material	Alloy Steel
Screw Finish	Black Oxide	Hex Wrench Size	5.0 mm
Seating Torque	16 Nm	Torque Specifications	Torque ratings vary with insert selection
Misalignment	Misalignment ratings vary with insert selection	Maximum Speed	8,000 RPM
Moment of Inertia	9.237 x 10 ⁻⁵ kg-m ²	Full Bearing Support Required?	Yes
Recommended Inserts	JD36/57-98R, JD36/57-92Y	Zero-Backlash?	Yes
Balanced Design	Yes	Fail Safe?	Yes
Weight (lbs)	0.420900	Temperature	-10°F to 180°F (-23°C to 82°C)
Material Specification	2024-T351 Aluminum Bar	Finish	Bright
Finish Specification	Bright, No Plating	Manufacturer	Ruland Manufacturing
Recommended Gap Between Hubs	0.050 in (1.25 mm)	Country of Origin	USA
UPC	634529099759	UNSPC	31163011
Tariff Code	8483.60.8000		
Note 1	Stainless steel hubs are available u	pon request.	
Note 2	Performance ratings are for guidance	ce only. The user must determine su	itability for a particular application.
Note 3	normal/typical conditions the hubs a cases, especially when the smalles shaft is possible below the nominal		inal torque of the spiders. In some shafts are undersized, slippage on the available to provide additional torque
Prop 65		pose you to the chemical Ethylene The defects or other reproductive harm.	· · · · · · · · · · · · · · · · · · ·

Installation Instructions

1. Align the bores of the MJC57-22-A jaw coupling hubs on the shafts that are to be joined and

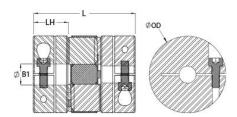
- determine if the misalignment parameters are within the limits of the coupling. (See spider for misalignment parameters.)
- 2. Fully tighten the M6 screw(s) on the first hub to the recommended seating torque of 16 Nm using a 5.0 mm hex torque wrench.
- 3. Insert a spider into the jaws of one hub until the raised points contact the base of the hub.
- 4. Insert the jaws of the second hub into the spider openings until the raised points contact the base of the second hub. Some force will be required to insert the second hub. This is normal.
- 5. Assure that a gap is maintained between the two hubs so there is no metal to metal contact. Fully tighten the screw(s) on the second hub to the recommended seating torque.





MJC57-28-A

Ruland MJC57-28-A, 28mm Jaw Coupling Hub, Aluminum, Clamp Style, 57.2mm OD, 28.7mm Length





Description

Ruland MJC57-28-A is a clamp zero-backlash jaw coupling hub with a 28mm bore, 57.2mm OD, and 28.7mm length. It is a component in a three-piece design consisiting of two aluminum hubs and an elastomeric insert called the spider creating a lightweight low inertia coupling capable of speeds up to 8,000 RPM. This three-piece design allows for a highly customizable coupling that easily combines clamp or set screw hubs with inch, metric, keyed, and keyless bores. Spiders are available in three durometers allowing the user to tailor coupling performance to their application. Ruland jaw couplings have a balanced design for reduced vibration at high speeds. Hardware is metric and tests beyond DIN 912 12.9 standards for maximum torque capabilities. MJC57-28-A is machined from bar stock that is sourced exclusively from North American mills and is RoHS3 and REACH compliant. It is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

Product Specifications

Bore (B1)	28 mm	D4 May Chaft Danatustian	00.7
	20 111111	B1 Max Shaft Penetration	28.7 mm
Outer Diameter (OD)	2.250 in (57.2 mm)	Bore Tolerance	+0.03 mm / -0.00 mm
Hub Width (LH)	28.7 mm	Length (L)	3.150 in (80.0 mm)
Recommended Shaft Tolerance	+0.000 mm / -0.013 mm	Forged Clamp Screw	M6
Number of Screws	1 ea	Screw Material	Alloy Steel
Screw Finish	Black Oxide	Hex Wrench Size	5.0 mm
Seating Torque	16 Nm	Torque Specifications	Torque ratings vary with insert selection
Misalignment	Misalignment ratings vary with insert selection	Maximum Speed	8,000 RPM
Moment of Inertia	8.957 x 10 ⁻⁵ kg-m ²	Full Bearing Support Required?	Yes
Recommended Inserts	JD36/57-98R, JD36/57-92Y	Zero-Backlash?	Yes
Balanced Design	Yes	Fail Safe?	Yes
Weight (lbs)	0.382000	Temperature	-10°F to 180°F (-23°C to 82°C)
Material Specification	2024-T351 Aluminum Bar	Finish	Bright
Finish Specification	Bright, No Plating	Manufacturer	Ruland Manufacturing
Recommended Gap Between Hubs	0.050 in (1.25 mm)	Country of Origin	USA
UPC	634529099179	UNSPC	31163011
Tariff Code	8483.60.8000		
Note 1	Stainless steel hubs are available u	ipon request.	
Note 2	Performance ratings are for guidan	ce only. The user must determine su	itability for a particular application.
Note 3	normal/typical conditions the hubs a cases, especially when the smalles shaft is possible below the nominal		inal torque of the spiders. In some shafts are undersized, slippage on the available to provide additional torque
Prop 65		pose you to the chemical Ethylene The defects or other reproductive harm.	•

Installation Instructions

1. Align the bores of the MJC57-28-A jaw coupling hubs on the shafts that are to be joined and

- determine if the misalignment parameters are within the limits of the coupling. (See spider for misalignment parameters.)
- 2. Fully tighten the M6 screw(s) on the first hub to the recommended seating torque of 16 Nm using a 5.0 mm hex torque wrench.
- 3. Insert a spider into the jaws of one hub until the raised points contact the base of the hub.
- 4. Insert the jaws of the second hub into the spider openings until the raised points contact the base of the second hub. Some force will be required to insert the second hub. This is normal.
- 5. Assure that a gap is maintained between the two hubs so there is no metal to metal contact. Fully tighten the screw(s) on the second hub to the recommended seating torque.



Precision Torque Sensor

rotating, contactless

MODEL 8656



Highlight: Very short design



Small measuring range



Large measuring range

Highlights

- Measurement ranges of 0 ... 1 N·m to 0 ... 100 N·m
- Very short design
- Output signal 0 ... ±10 V

Options

- Speed and angle measurement with resolution of up to 400 increments
- USB port including software

Applications

- End-of-line test benches
- Research & development
- Machinery and plant engineering
- Electric motor test
- Suitable for use in all types of test bench

Product description

The very short torque sensor model 8656 is contactless constructed. The torque is recorded by the torsion of the shaft using the strain gauge principle. Thanks to the inductive and optical transmission of the signals, the sensor is maintenance-free, the signals are digitized directly on the shaft and made available by the evaluation electronics as a voltage signal or via USB. Thanks to the high-quality, up to 10,000 rpm is possible. The direction of rotation can be seen from the potential of the output voltage, clockwise rotation corresponds to positive output voltage, counterclockwise rotation the voltage level is negative.

The shaft is equipped with keyways in every measuring range, matching keys are included. If a key connection is not required, the key can be omitted. The torque is matched with suitable couplings, we recommend model 8690, safely transmitted.

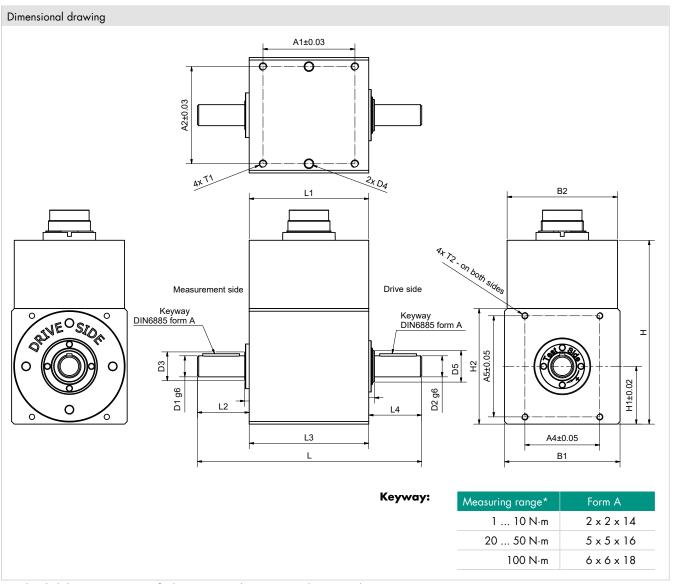
To record the speed and angle of rotation, the sensor can optionally be equipped with an incremental disc with 400 increments. This speed / angle signal is available as a TTL output signal.

The free DigiVision software is available in connection with USB, alternatively drivers for LabVIEW and DASYLab are ready for download.

Connection cables in various lengths, metal bellows couplings and mounting brackets are available for integration in customer-specific systems.

Technical Data

8656	-	5001	5002	5005	5010	5020	5050	5100						
Measuring range calibrated in N·m from 0		±1 N·m	±2 N⋅m	±5 N⋅m	±10 N·m	±20 N⋅m	±50 N⋅m	±100 N⋅m						
Accuracy														
Relative non-linearity					0.2 % F.S.									
Relative hysteresis		0.15 % F.S.												
Tolerance of sensitivity		0.25 % F.S.												
Electrical values														
Rated supply voltage range	Э		10 30 V DC (or 5 V via USB)											
DC power consumption					approx. 2 W									
Output voltage at ± rated torque			±10 V											
Output resistance					330 Ω									
Insulation resistance					> 5 MΩ									
Update rate					400/sec.									
Ripple					< 50 mV _{ss}									
Control signal					10.00 V DC									
Environmental cond	itions													
Range of operating and nominal temperature		0 °C +60 °C												
Sensitivity of temperature effects					ero point 0.015 ensitivity 0.015									
Mechanical values					,									
Dynamic overload safe				recommend	ded 70 % of nor	ninal torque								
Max. operation torque					% of nominal to									
Breakaway torque					% of nominal to	•								
Alternating load					% of nominal to	•								
Maximum limit axial load	[N]		7	70			50	165						
Maximum limit radial load	[N]	5	10	13	20	25	30	50						
Spring constant	[N·m/rad]	33	30	10	000	75	500	18000						
Mass moment of inertia measuring side	[10 ⁻⁶ kg*m ²]			4			8	22						
Mass moment of inertia	[10 ⁶ kg*m ²]			1		8	.5	25						
Max. rotary speed	[min ⁻¹]				10000	1		1						
Other														
Material			Housing	: made of anod	ized aluminium;	Shaft: steel shel	1.4542							
Protection class					c. EN 60529, II									
Weight	[g]		3	10	,		85	710						
Installation														
Installation instructions		Please refer	to our operatin	ng instructions fo	r detailed inform	rces during fittin nation www.bur l or angular offs	ster.com. Suitab	ole couplings						



For detailed dimensions you can find sensor CAD data on our website www.burster.com.

8656	_	5001	5002	5005	5010	5020	5050	5100			
Measuring range from 0		±1 N·m	±2 N⋅m	±5 N⋅m	±10 N·m	±20 N⋅m	±50 N⋅m	±100 N·m			
Geometry											
A1	[mm]			(35		33.5				
A2	[mm]		3	17		3	6	41			
A4	[mm]		28	3.5		4	.4	50			
A5	[mm]		38	3.5		4	.1	48			
B1	[mm]		4	4		5	0	59			
B2	[mm]				42						
D1 / D2	[mm]		8	g6		1.5	18g6				
D3	[mm]		1	1		1	24				
D4 Ø / deep	[mm]				Ø 3.1 / 6						
H1	[mm]		2	2		2	29.5				
H2	[mm]		4	4		5	0	59			
L	[mm]		8.5	5.4		90).1	95.5			
L2	[mm]		19	9.7		21	.5	24			
L3	[mm]		43	5.5			47.5				
L4	[mm]		20).2		21	24				
T1 / deep	[mm]		M3	/7							
T2 / deep	[mm]		M2.	5 / 8		M3	/ 8	M4 /8			

Electrical values

12-pin connector or mini USB with screw connection for configuration / measurement (option, USB connection cable included)

Wiring Code depends on the options	selected	
Pin	Assignment	Cable colour (99540-000F-052XXXX)
A	NC	
В	Angular exit B	violet
С	Moment output +	yellow
D	Moment output -	green
E	Supply -	blue
F	Supply +	red
G	Angular exit A	pink
Н	NC	
J	Ground angle output	black
K	Control signal	White
L	-	-
M	NC	

Accessories

Mounting block model 8600-Z02X



The mounting block has a central hole and special design allowing a range of options for reliable cable attachment. Two clips ensure the sensor is fixed securely.

For further information please see accessories data sheet 8600-Z02X

Metal bellow couplings



Couplings are necessary for correct installation. We recommend torsionally free metal bellows couplings to achieve an optimum compensation of misalignment.

The couplings are characterized by their excellent torsional stiffness during torque load and their low restoring forces. The couplings are optionally available with feather keys.

For further information please see accessories data sheet 8690.

Options

Integrated amplifier with USB interface



This sensor version has an USB connection instead of the $\pm 10~V$ output. The sensor is powered via USB, no further connections required.

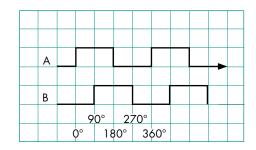
In addition to torque, the speed or rotation angle measured values are optionally available at the output. The mechanical performance calculated in the sensor is also displayed via the DigiVision software.

Free drivers are available for integration into LabVIEW and DA-SYlab, also a DLL for integration into your own programs.

Torque sensor with integrated rotational speed / angular displacement measurement

8656 torque sensors are optionally available with integrated rotational speed and angular displacement measurement. Two pulse channels with TTL level – channel A and channel B – are always available. For clockwise rotation (looking at the test side), channel A leads channel B with a phase shift of 90°. Only one pulse channel is needed for speed measurement.

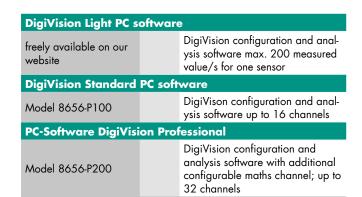
For angular displacement measurement (or direction detection), both channels need to be evaluated. To achieve the maximum angular resolution, four-edge decoding must be used to read both the rising and falling edges, so an angular resolution of 0.255 $^{\circ}$ is possible.

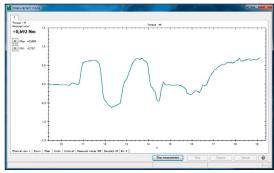


DigiVision configuration and analysis software

Features

- Can be used to actuate tare function
- Configuration options for averaging and filters
- Intuitive user interface
- Automatic sensor identification
- Sensor calibration data readout





USB measurement option

- Numerical & graphical display and measurement of the physical torque value
- Practical start and stop trigger functions
- 4 limits can be configured for each measurement channel
- MIN/MAX value acquisition
- Automatic scaling
- Measurement reports can be saved as Excel or PDF file
- Archive viewer for displaying sets of curves
- X Multichannel measurements, even with different sensors (e.g. 9206, 8631, 8625, 8661) available with standard version



Accessories

Order code	
9940	Mating connection 12 pin (scope of delivery)
9900-V539	Mating connection 90°-angle
99540-000F-0520030	Connecting cable, length 3 m, other end free
99539-000F-0520030	Connecting cable, length 3 m, plug with 90°-angle, other end free
99209-540G-0160030	Connecting cable for model 7281 and model 9311, length 3 m, with external supply
99163-540A-0150030	Connecting cable, length 3 m, 8656 to DIGIFORCE® 9307combined cannel D (option channel)
99209-215A-0090004	Adapter cable to DIGIFORCE® 9307 standard channel A/B and C (usable only in connection with type 99163-540A-015xxxx)
	DigiVision Light configuration and analysis software, max. 200 measured value/s for one sensor (freely available on our website)
9900-K349	USB cable, length 2 m (included with the USB version)
8656-P100	DigiVision Standard configuration and analysis software; up to 16 channels
8656-P200	DigiVision Professional with additional configurable maths channel; up to 32 channels
8600-Z02X	Mounting block, see accessories data sheet 8656-Z02X

Calibration

Manufacturer Calibration Certificate (WKS)										
	Special calibration for clockwise or/and counter clockwise direction torque, in 20 % steps of range up and down.									
DAkkS Calibration C	DAkkS Calibration Certificate									
	DAkkS calibration certificate per DIN 51309, clockwise or/and counter clockwise torque, with eight steps spaced across the measurement range, increasing and decreasing.									

Order Code

Measuring Range		Co	de									
0 ±1 N·m	5	0	0	1								
0 ±2 N⋅m	5	0	0	2								
0 ±5 N⋅m	5	0	0	5								
0 ±10 N·m	5	0	1	0								
0 ±20 N⋅m	5	0	2	0								
0 ±50 N⋅m	5	0	5	0								
0 ±100 N·m	5	1	0	0					Standard	1		
							0	0	0 2 0			
8 6 5 6 -					-	V	0			2	0	
■ Without angle/speed measuremen	ıt							0				
Speed/angle measurement 400 in												
Output signals												
Output voltage 0 ±10 V												
■ USB interface									1			
Rounded shaft ends with keyway										2		

<u>Data</u>	sheet	for tl	hree-ph	ase Squi	rrel-Cac	ge-Moto	rs SIMO	TICS								CC		
Motor Client ord		1AV31	04C		l _i .	SI tem-No.	MOTICS GE	P - 100 L	- IM B3 -	- 6р	Offer	no.						
						Item-No.												
Order no.						Consignment r	10.				Proje	ct						
Remarks																		
Electric	al data	a									Saf	e Area						
U	Δ/Υ	f	Р	Р	I	n	М		η 3)			cosφ ³⁾		I _A /I _N	M _A /M _N	M _K /M _N	IE-CL	
[V]		[Hz]	[kW]	[hp]	[A]	[1/min]	[Nm]	4/4	3/4	2/4	4/4	3/4	2/4	I _I /I _N	T _I /T _N	T _B /T _N		
						DO	L duty (S1) - 155(F) to 130	(B)								
230	Δ	50	1.50	-/-	6.30	970	14.8	82.5	83.1	81.5	0.73	0.65	0.52	5.2	1.9	2.8	IE3	
400	Y	50	1.50	-/-	3.60	970	14.8	82.5	83.1	81.5	0.73	0.65	0.52	5.2	1.9	2.8	IE3	
IM B3 / II	VI 1001		FS 100	L		IP55	UKCA	IEC/EN	60034		IEC, DIN, IS	SO, VDE, EN	ı					
		Enviror	mental co	onditions :	-20 °C - +4	40 °C / 10	00 m			Loc	ked roto	or time (hot / col	d) : 26.	6 s 34.7	7 _S		
Mecha	nical d	ata																
Sound	level (SP	L / SWL)	at 50Hz 60)Hz 59 <i>l</i>	71 dB(A) ²⁾	62/	74 dB(A) ^{2) 3)}	Vibr	ation seve	erity grad	e	A						
	nt of ine		·			0110 kg m²			mal class						F			
Bearing	J DE NE	Œ		6	206 2Z C3	62	206 2Z C3	Duty	type			S1						
bearing lifetime								Dire	ction of r	otation		bidirectional						
L _{10mh} F _F 50 60H	_{Rad min} for Iz ¹⁾	couplin	g operatior	า	40000 h	32000 h Frame material						aluminum						
	sing dev				١	Without Net weight of the motor (I					or (IM B3)	r (IM B3) 25 kg						
Grease	nipple					-/- Coating (paint finish)					Standard paint finish C2							
Type of	bearing	J			Preloa	loaded bearing DE Color, paint shade					RAL7030							
Conder	nsate dra	inage h	oles			Without Motor protection					(A) without (Standard)							
Externa	al earthir	ng termi	nal			Without		Met	hod of co	oling		IC411 - self ventilated, surface cooled						
Termin	al box																	
Termin	al box p	osition				top		Max	. cross-se	ctional ar	ea				4 mm ²			
Materia	al of tern	ninal bo	×		Α	luminium		Cabl	e diamet	er from	. to			11 n	nm - 21 m	m		
Type of	termina	al box				TB1 F00		Cabl	e entry						M32x1,5			
Contac	t screw t	hread				M4		Cabl	e gland		2 plugs							
Notes:	d roter cur	ent / currer	nt nominal		I 10mh accordi	ng to DIN ISO 28	1 10/2010			3) //ച	a is valid onl	v for DOL and	eration with n	notor dosia:	n IC411			
$M_A/M_N = loc$	ked rotor t	orque / torq	ue nominal ninal torque		at rated power		1 10/2010			value (د	. vailu ONI	y ioi DOL ope	ration with f	iotoi uesigi	IIICTI I			
responsible dep. technical reference					rence	created by approved by Tech				Technical data are subject to change! There may be Link documents								

$M_N/M_N = \text{locked rotor torque} / \text{torque nominal}$ 2) at rated power / at full load $M_N/M_N = \text{break down torque} / \text{nominal torque}$								
responsible dep.	technical reference	created by approved by			,	ect to change! There may be	Link docume	ents .
DI MC LVM		DT Configurator		discrepancies between calculated and rating plate values.				
SIEMENS	document type				document status			
	datasheet				released			
	title				document number			
	1LE1003-1AC42-2AA4							
					rev.	creation date	language	Page
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