

# Hypoid Motor TA Series Specifications

HYPOID MOTOR TA

## Specifications

Motor	Output	Three-phase : 0.1, 0.2, 0.4, 0.75, 1.5, 2.2, 3.7, 5.5kW	Single-phase : 100, 200W
		Non-brake type · Brake type	Non-brake type · Brake type
	Power supply	200/200/220V 50/60/60Hz	
	Number of poles	4	
	Protection type	0.1 kW - Totally-enclosed type (IP44), 0.2-5.5 kW - Totally-enclosed external fan type (IP44)	Drip-proof protection type (IP22)
	Cooling method	0.1 kW - Self-cooled type (IC410), 0.2-5.5 kW - Self-managed type (IC411)	Draft type (IC01)
	Starting method	—	
	Rating	Continuous	
	Insulation	0.1 kW-3.7 kW - Class E, 5.5 kW - Class B	Class E
	Brake	Non-excitation type · DC electromagnetic brake	
Reducer	Reduction ratio	1/5 to 1/1200	
	Lubricating method	Grease	
	Shaft end key way	New JIS key (JIS B1301-1976): Output shaft key attached (Ordinary-class key way)	
	Output shaft end	Tapped	
Ambient conditions	Installation place	Indoor not exposed to dust or water	
	Ambient temperature	-20°C to 40°C	
	Ambient humidity	Less than 85% (non condensing)	
	Altitude	Elevations below 1000 m	
	Atmosphere	Free from corrosive gases, explosive gases and steam	
	Mounting direction	No limitations on mounting angles: horizontal, vertical or inclined	
Paint color	Munsell 2.5G6/3		

Note) The protective construction for the brake type is IP20.

## Motor specifications

Number of phases	Output	Number of poles	Frequency Hz	Voltage V	Rated current A	Rated revolution rate r/min	AC-side brake current Reference value at 20°C
Three-phase	0.1kW	4	50/60/60	200/200/220 (400/400/440)	0.63/0.57/0.58 (0.32/0.29/0.29)	1410/1700/1710 (1410/1700/1710)	0.12 A
	0.2kW				1.2/1.1/1.1 (0.59/0.55/0.55)	1420/1700/1720 (1410/1690/1720)	0.12 A
	0.4kW				2.3/2.0/2.0 (1.2/1.0/1.0)	1360/1665/1685 (1360/1665/1685)	0.16 A
	0.75kW				3.8/3.4/3.4 (2.0/1.7/1.7)	1410/1690/1710 (1410/1690/1710)	0.17 A
	1.5kW				7.0/6.2/6.0 (3.5/3.1/3.0)	1420/1710/1730 (1420/1710/1730)	0.10 A
	2.2kW				9.8/8.9/8.5 (4.9/4.5/4.3)	1420/1710/1730 (1420/1710/1730)	0.10 A
	3.7kW				16.0/14.8/14.0 (8.0/7.4/7.0)	1420/1710/1730 (1420/1710/1730)	0.08 A
	5.5kW				23.8/21.0/20.0 (11.9/10.5/10.0)	1430/1730/1740 (1430/1730/1740)	0.10 A
Single-phase	100W	4	50/60	100	3.2/2.8	1440/1730	0.21 A
	200W				5.2/4.6	1430/1710	0.21 A

Note 1) The values in parentheses under "Rated current" and "Rated revolution rate" are for 400/400/440 V.

Note 2) For the brake type, the brake current shown above is added for the phase where the brake lead wire is connected to the motor lead wire. The AC-side brake current is for 200 V AC 60 Hz and 100 V AC 60 Hz.

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## Special motor type (Applied to hypoid motor and hypoid motor with brake)

○ Quick delivery product  
△ Made-to-order product

Motor specifications			Three-phase motor type															
			0.1kW		0.2kW		0.4kW		0.75kW		1.5kW		2.2kW		3.7kW		5.5kW	
			Brake		Brake		Brake		Brake		Brake		Brake		Brake		Brake	
			Not provided	Provided	Not provided	Provided	Not provided	Provided	Not provided	Provided	Not provided	Provided	Not provided	Provided	Not provided	Provided	Not provided	Provided
Voltage	Double voltage	400/400/440V 50/60/60Hz	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	△
	Other voltage (Note 1)	200 V · 400 V level	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	△
	Other voltage	Special voltage	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△
Terminal box type	Standard voltage		Standard model															△
	Double voltage	400/400/440V 50/60/60Hz	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	△
	Other voltage (Note 1)	200 V level	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	△
	Other voltage (Note 1)	400 V level	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	△
	Other voltage	Special voltage	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△
Outdoor type	Standard voltage		○	△	○	△	○	△	○	△	○	△	○	△	○	△	○	△
	Double voltage	400/400/440V 50/60/60Hz	○	△	○	△	○	△	○	△	○	△	○	△	○	△	○	△
	Other voltage (Note 1)	200 V · 400 V level	○	△	○	△	○	△	○	△	○	△	○	△	○	△	○	△
	Other voltage	Special voltage	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△
Explosion-proof type	Standard voltage		△	—	△	—	△	—	△	—	△	—	△	—	△	—	△	—
	Double voltage	400/400/440V 50/60/60Hz	△	—	△	—	△	—	△	—	△	—	△	—	△	—	△	—
	Other voltage	Special voltage	△	—	△	—	△	—	△	—	△	—	△	—	△	—	△	—

(Note 1) The other voltage 200 V level and 400 V level are applied to those indicated by "○" in the table below.

### (1) 0.1kW · 0.2kW · 0.4kW · 0.75kW · 1.5kW · 2.2kW · 3.7kW

	Three-phase 200 V level				Three-phase 400 V level							
	Frequency of 50 Hz		Frequency of 60 Hz		Frequency of 50 Hz				Frequency of 60 Hz			
	Voltage (V)		Voltage (V)		Voltage (V)				Voltage (V)			
	210	220	210	230	380	415	420	380	415	420	460	
Non-Brake type	○	○	○	○	○	○	○	○	○	○	○	○
Brake type	○	○	○	○	○	○	○	○	○	○	○	○

### (2) 5.5 kW

	Three-phase 200 V level				Three-phase 400 V level							
	Frequency of 50 Hz		Frequency of 60 Hz		Frequency of 50 Hz				Frequency of 60 Hz			
	Voltage (V)		Voltage (V)		Voltage (V)				Voltage (V)			
	210	220	210	230	380	415	420	380	415	420	460	
Non-Brake type	△	△	○	○	○	○	△	△	○	○	○	○
Brake type	△	△	○	○	○	○	△	△	○	○	○	○

Specifications

0.1 0.2  
0.4 0.75  
1.5 2.2  
3.7 5.5

## One-touch manual release brake type

○ Quick delivery product  
△ Made-to-order product

	Three-phase brake motor type									Single-phase brake motor type	
	0.1kW	0.2kW	0.4kW	0.75kW	1.5kW	2.2kW	3.7kW	5.5kW	100W	200W	
One-touch manual release brake type	○	○	○	○	○	○	○	△	○	○	