Specification Chart

Output	Number of phases	Number of poles	Frequency Hz	Voltage V 50/60/60Hz	Rated current A 50/60/60Hz	Rated revolution r/min 50/60/60Hz	Protection	Cooling method	Rating	Insulation	Brake Type	Brake Rated torque (of motor torque)	Brake Insulation
1.5kW	Three-phase	4	50/60/60 (50/50/60/60)	200/200/220 (380/400/400/440)	6.6/6.0/5.8 (3.4/3.3/3.0/2.9)	1450/1745/1755 (1445/1450/1745/1755)	Totally enclosed (IP44)	Self-managed (JC411)	S1 (Continuous)	130(B)	Non-excitation	At least 150%	Class B

Note 1: The values in parentheses under "Rated current" and "Rated revolution" are for 400 V class.
Note 2: The protective construction for the brake type is IP20.

Model number		Motor output kW	Actual reduction ratio	Number of reduction steps H	Output shaft revolution r/min 50Hz	Output shaft revolution r/min 60Hz	Allowable output shaft torque 50Hz N·m	Allowable output shaft torque 50Hz {kgf·m}	Allowable output shaft torque 60Hz N·m	Allowable output shaft torque 60Hz {kgf·m}	Allowable output shaft O.H.L. N	Allowable output shaft O.H.L. {kgf}	Drawing number of outline dimensions
HMTR150	5	1.5	1/5	2	300	360	41.2	{4.2}	34.3	{3.5}	2058	{210}	1
	10		1/10		150	180	83.3	{8.5}	69.6	{7.1}	2842	{290}	
	15		1/15		100	120	124	{12.7}	104	{10.6}	3234	{330}	
	20		1/20		75	90	166	{16.9}	138	{14.1}	3626	{370}	
	25		1/25		60	72	208	{21.2}	173	{17.7}	4018	{410}	
	30		1/30		50	60	249	{25.4}	208	{21.2}	4508	{460}	
	40		1/40	3	37.5	45	317	{32.3}	264	{26.9}	5292	{540}	
	50		1/50		30	36	396	{40.4}	330	{33.7}	6076	{620}	
	60		1/60		25	30	475	{48.5}	396	{40.4}	6272	{640}	
	80		1/80		18.8	22.5	634	{64.7}	528	{53.9}	6272	{640}	
	100		1/100		15	18	792	{80.8}	661	{67.4}	9800	{1000}	2
	120		1/120		12.5	15	951	{97.0}	792	{80.8}	9800	{1000}	
	160		1/160		9.4	11.3	※1176	※{120}	1058	{108}	9800	{1000}	
	200		1/200		7.5	9	※1176	※{120}	※1176	※{120}	9800	{1000}	

Note 1: The actual reduction ratio is shown as the reduction ratio. (They are all integer ratios.)
Note 2: The output shaft revolution rate is calculated by dividing the synchronous motor revolution rate by the reduction ratio. Calculate the actual output revolution rate from the motor's rated revolution rate.
Note 3: The models marked with ※ are ones for which torque is limited.

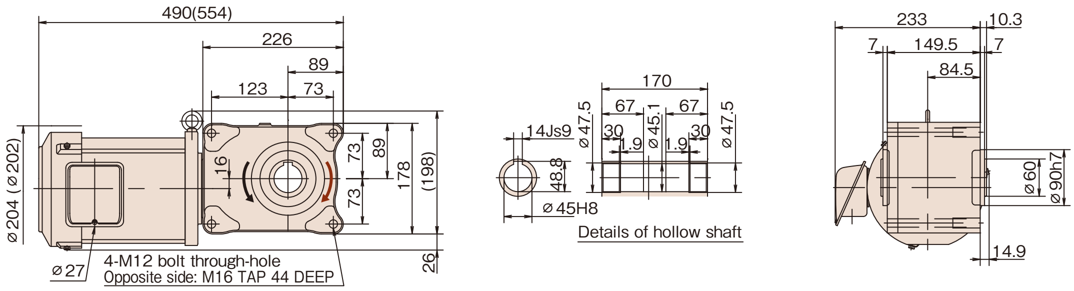
Outline Dimensions

HMTR150-45H5 – 80(B)

1/5–1/30 ↻, 1/40–1/80 ↺ **1**

Reduction ratio : 5,10, 15, 20, 25, 30, 40, 50, 60, 80

Approx. weight : 32.0(41.0)kg

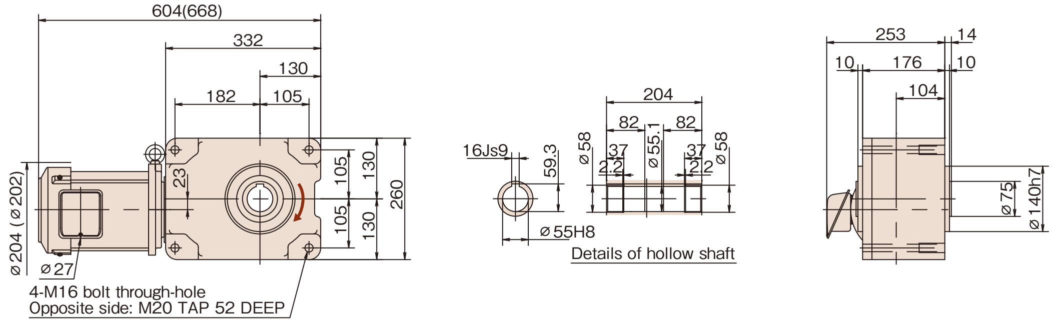


HMTR150-55H100 – 200(B)

2

Reduction ratio : 100, 120, 160, 200

Approx. weight : 61.0(69.0)kg



Note 1: The values in parentheses are for brake-equipped models.
Note 2: The dimension marked with ※ indicates that part of the motor protrudes from the mounting face.
Note 3: The direction of rotation of the output shaft is based on direction of rotation A shown on page 211.

HYPOID MOTOR TR Series
Specification Chart, Dimensions

Nomenclature Page 51
Technical Information Page 202