



Technical data

Ecodesign directive

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Technical data according to the Ecodesign Directive (EU) 2019/1781

Motor	BHI62A-□ BHI62AT-□ BHI62AMT-□	BHI62F-□ BHI62FT-□ BHI62FMT-□	BHI62C-□ BHI62CT-□ BHI62CMT-□	BHI62E-□ BHI62ET-□ BHI62EMT-□		
	"A" or "G2" appears at the position in the model number indicated by the box (□).					
Rated efficiency (η_N) at the full, 75% and 50% rated load and voltage (U_N), determined based on the 50/60 Hz operation and 25 °C ambient reference temperature, rounded to one decimal place [%]						
Rated Voltage U_N [V]	100	110	115	200	220	230
Full load	65.9/68.0	68.0	68.0	66.7/68.0	66.1/68.0	65.9/68.0
75%	63.0/60.7	62.0	59.3	62.7/58.9	62.3/59.8	58.8/58.4
50%	52.6/48.3	50.4	47.4	51.3/46.4	50.8/47.9	47.1/45.5
Efficiency level	IE2					
Manufacturer's name or trade mark, commercial registration number and address						
ORIENTAL MOTOR CO., LTD. 4-8-1 Higashi Ueno, Taito-ku, Tokyo, 110-8536, Japan						
Product's model identifier	See above					
Number of poles	4					
The rated power output(s) P_N [kW]	0.2					
The rated input frequency(s) [Hz]	50/60	60	60	50/60	50/60	50/60
The rated voltage(s) [V]	100	110	115	200	220	230
The rated speed(s) [r/min]	1250/1500	1500	1500	1250/1500	1250/1500	1250/1500
Phase	Single-phase					
Operating conditions						
Altitudes above sea-level	1000 meters or less					
Minimum and maximum ambient air temperatures including for motors with air cooling						
	-10 to +50 °C (Non-freezing)	-10 to +40 °C (Non-freezing)	-10 to +50 °C (Non-freezing)	-10 to +40 °C (Non-freezing)		
Water coolant temperature at the inlet to the product, where applicable						
	Not relevant, since motors are not liquid-cooled					
Maximum operating temperature	Thermal Class: 130(B)					
Potentially explosive atmospheres	Operation in potentially explosive areas prohibited					

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Motor	BHI62S-□ BHI62ST-□ BHI62SMT-□			BHI62U-□ BHI62UT-□		
	"A" or "G2" appears at the position in the model number indicated by the box (□).					
Rated efficiency (η_N) at the full, 75% and 50% rated load and voltage (U_N), determined based on the 50/60 Hz operation and 25 °C ambient reference temperature, rounded to one decimal place [%]						
Rated Voltage U_N [V]	200	220	230	380	400	415
Full load	69.1/69.5	73.5	74.5	70.5/71.1	72.1/73.3	72.8
75%	71.8/73.3	74.6	74.6	72.9/74.4	73.1/75.1	73.0
50%	70.4/73.2	72.1	71.2	71.4/73.9	70.2/73.4	69.3
Efficiency level	IE2					
Manufacturer's name or trade mark, commercial registration number and address						
ORIENTAL MOTOR CO., LTD. 4-8-1 Higashi Ueno, Taito-ku, Tokyo, 110-8536, Japan						
Product's model identifier	See above					
Number of poles	4					
The rated power output(s) P_N [kW]	0.2					
The rated input frequency(s) [Hz]	50/60	60	60	50/60	50/60	50
The rated voltage(s) [V]	200	220	230	380	400	415
The rated speed(s) [r/min]	1250/1500	1550	1600	1300/1550	1300/1550	1300
Phase	Three-phase					
Operating conditions						
Altitudes above sea-level	1000 meters or less					
Minimum and maximum ambient air temperatures including for motors with air cooling						
	-10 to +50 °C (Non-freezing)	-10 to +40 °C (Non-freezing)				
Water coolant temperature at the inlet to the product, where applicable						
	Not relevant, since motors are not liquid-cooled					
Maximum operating temperature	Thermal Class: 130(B)					
Potentially explosive atmospheres	Operation in potentially explosive areas prohibited					

Motor	BHI62S-□ BHI62ST-□ BHI62SMT-□		
	"A" or "G2" appears at the position in the model number indicated by the box (□).		
The power losses expressed in percentage (%) of the rated output power at the following different operating points for speed versus torque: (25;25) (25;100) (50;25) (50;50) (50;100) (90;50) (90;100) determined based on 25 °C ambient reference temperature, rounded to one decimal place; if the motor is not suited for operation at any of the operating points for speed versus torque above, then 'N.A.' should be indicated for such points.			
Other than the above products not applicable because it cannot be combined with an inverter.			
		Power losses expressed in % of the rated output power. (losses in W)	
Operating points for speed versus torque		200V 50Hz	200V 60Hz
(90 ; 100) Speed 90% Torque 100%		47.6 (95.2)	46.7 (93.4)
(50 ; 100) Speed 50% Torque 100%		44.7 (89.4)	43.3 (86.6)
(25 ; 100) Speed 25% Torque 100%		N.A.	N.A.
(90 ; 50) Speed 90% Torque 50%		22.6 (45.2)	20.2 (40.3)
(50 ; 50) Speed 50% Torque 50%		19.2 (38.4)	16.3 (32.6)
(50 ; 25) Speed 50% Torque 25%		15.7 (31.4)	12.2 (24.5)
(25 ; 25) Speed 25% Torque 25%		15.5 (31.0)	11.2 (22.4)