





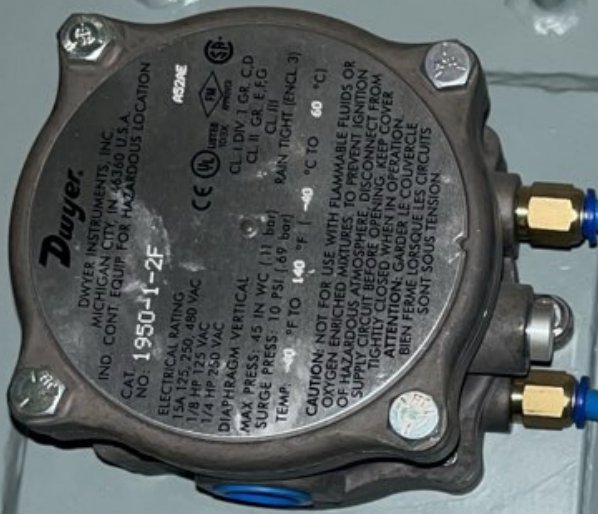








W191126/310.44/11/10
P482355/1
KM-9700



Dwyer.

DWYER INSTRUMENTS, INC.
MICHIGAN CITY, IN 46360 U.S.A.
IND. CONT. EQUIP. FOR HAZARDOUS LOCATION
NO. 1950-1-2F

ELECTRICAL RATING
1 1/2 HP 250 VAC
1 7/8 HP 125 VAC
1 3/4 HP 250 VAC

DIAPHRAGM VERTICAL
MAX PRESS. 45 IN WC (1.1 bar)
SURGE PRESS. 10 PSI (.69 bar)

TEMP. -40 °F TO 140 °F | -40 °C TO 60 °C

CAUTION: NOT FOR USE WITH FLAMMABLE FLUIDS OR
OXYGEN ENRICHED MIXTURES TO PREVENT IGNITION
OF HAZARDOUS ATMOSPHERE. DISCONNECT FROM
SUPPLY CIRCUIT BEFORE OPENING. KEEP COVER
TIGHTLY CLOSED WHEN IN OPERATION.
ATTENTION: GARDER LE COUVERCLE
BIEN FERMÉ LORSQUE LES CIRCUITS
SONT SOUS TENSION.

CE (UL) LISTED
1950
AS2AIE

CL I DIV. I GR. C, D
CL II GR. E, F, G
CL III
RAIN TIGHT (ENCL. 3)



ELECTRIC

HYUNDAI 3 PHASE INDUCTION MOTOR



OUTPUT	2000HP, 2P	INPUT	3Phase, 4000V, 251.3A, 60Hz
FRAME SIZE	450	ROTOR TYPE	SQUIRREL CAGE
TYPE	HNP3 451-28E	DUTY TYPE	S1 (Continuous)
ENCLOSURE TYPE	WP II (IP24W)	SERVICE FACTOR	1.15
SPEED AT FULL LOAD	3554 rpm	INSULATION CLASS	F
AMBIENT TEMP.	10-40 °C	TEMPERATURE RISE	B class
EFFICIENCY	95.2 %	POWER FACTOR	0.90
BEARING(D.E)	SLEEVE	BEARING(N-D.E)	SLEEVE
SPACE HEATER	1 Ø		120 V 200 W
WEIGHT	5300 kg	CODE LETTER	F
SERIAL NO.	20193136RMH840001	MANUFACT' G DATE	2020.05
Class 1, Division 2, Group C&D, T3			

MADE IN KOREA

4M-091240

LUBRICATION - OIL BEARING			
VISCOSITY ISO VG		32 SAE	
FORCED LUB.	OIL RATE	D END BEARING	l / min
		ND END BEARING	l / min
	OIL PRESSURE		kgf / cm ²
SELF LUB.	OIL QTY	D END BEARING	2.9 l
		ND END BEARING	2.9 l
OIL CHARGING DURING STANDSTILL ONLY			

FCI-WS2-KM-970

CAUTION
BEFORE STARTING, CHECK IF THE BEARING IS FILLED WITH OIL TO THE SUFFICIENT OIL LEVEL.



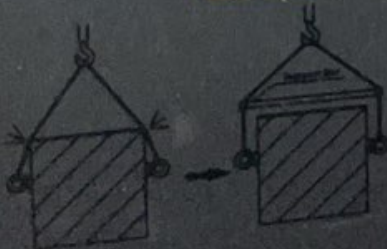
PRIOR TO REMOVING END SHIELD, TAKE OFF THE SIDE COVER THEN DISASSEMBLE THE AIR EQUALIZATION INSTALLED ON AIR GUIDE AND END SHIELD.

NOTICE



PLEASE ALIGN "SHAFT LINE" WITH "ENDPLAY INDICATOR" MOVING THE SHAFT, AND THEN COUPLING SHOULD BE INSTALLED.

CAUTION



Using support bar is recommended for lifting. Use lifting lug which are attached on motor frame not on lifting the complete motor.

WARNING

TO PREVENT THE SHAFT CURRENT, INSULATION BEARING IS PROVIDED. SO, WHEN REPLACING BEARING, INSULATION BEARING SHOULD BE USED.

INSULATION BEARING	
D.E SIDE INSULATED	N.D.E SIDE

CAUTION

BEARING MUST BE KEPT

A/S Call Center

+82-80-230-7777
+82-52-202-7777

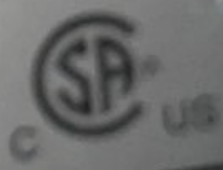
service@hyundai-electric.com

CAUTION

1. REMOVE SHAFT LOCKING DEVICE BEFORE OPERATION
2. SHAFT LOCKING DEVICE SHOULD BE INSTALLED DURING TRANSPORT

HYUNDAI

ELECTRIC



INDUCTION MOTOR

2000HP, 2P	INPUT	3Phase, 480V, 201.3A, 60Hz
450	ROTOR TYPE	SQUIRREL CAGE
HNP3 451-28E	DUTY TYPE	S1 (Continuous)
WP II (IP24W)	SERVICE FACTOR	1.15
3554 rpm	INSULATION CLASS	F
10-40 °C	TEMPERATURE RISE	B-0000
95.2 %	POWER FACTOR	0.90
SLEEVE	BEARING(N.D.E)	Ball BE
1 2	120 V	200 A
5300	CODE LETTER	F
20183130PMH040001	MANUFACT G DATE	2020.06

Group C&D, 73

TO PREVENT
IS PROVIDED
BEARING
BEA

ELECTRIC

HYUNDAI 3 PHASE INDUCTION MOTOR



OUTPUT	2000HP, 2P	INPUT	
FRAME SIZE	450	ROTOR TYPE	
TYPE	HNP3 451-28E	DUTY TYPE	
ENCLOSURE TYPE	WP II (IP24W)	SERVICE FACTOR	
SPEED AT FULL LOAD	3554 rpm	INSULATION CLASS	
AMBIENT TEMP.	10~40 °C	TEMPERATURE RISE	
EFFICIENCY	95.2 %	POWER FACTOR	
BEARING(D.E)	SLEEVE	BEARING(N-D E)	
SPACE HEATER	1 Ø	CODE LETTER	120 V
WEIGHT	5300 kg	MANUFACT G DATE	
SERIAL NO.	20193136RMH840001		
Class I, Division 2, Group C&D, T3			

MADE IN KOREA

LUBRICATION FOR BEARING			
VISCOSITY ISO VG		32	SAE
FORCED LUB.	OIL RATE	D-END BEARING	l / min
		ND-END BEARING	l / min
SELF LUB.	OIL QTY	D-END BEARING	kg / hr
		ND-END BEARING	kg / hr
CHARGING DURING STANDSTILL ONLY			

UTION

WEIGHT
SPACE HEATER

5300
20193136RMH840001

MANUFACTURING DATA

SERIAL NO.

Class I, Division 2, Group C&D, T3

MADE IN KOREA

LUBRICATION FOR BEARING

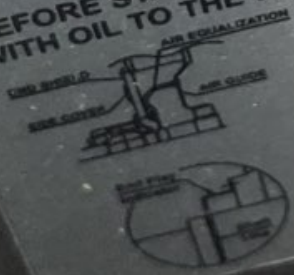
VISCOSITY ISO VG 32 SAE
ℓ / min
ℓ / min

FORCED LUB.	OIL RATE	D-END BEARING	kgf / cm ²
		ND-END BEARING	
SELF LUB. <td rowspan="2">OIL Q'TY<td>2.9</td><td>ℓ</td></td>	OIL Q'TY <td>2.9</td> <td>ℓ</td>	2.9	ℓ
		2.9	ℓ

OIL CHARGING DURING STANDSTILL ONLY

CAUTION

BEFORE STARTING, CHECK IF THE BEARING IS FILLED WITH OIL TO THE SUFFICIENT OIL LEVEL.
PRIOR TO REMOVING END SHIELD, TAKE OFF THE SIDE COVER THEN DISASSEMBLE THE AIR EQUALIZATION INSTALLED ON AIR GUIDE AND END SHIELD.



NOTICE

PLEASE ALIGN "SHAFT LINE" WITH "ENDPLAY INDICATOR" MOVING THE SHAFT AND THEN COUPLING SHOULD BE INSTALLED.

CAUTION



Using support bar is recommended for lifting.
Use lifting lug when lifting the motor.
When lifting the motor, please use the lifting bar and support bar.



HYUNDAI ELECTRIC

HYUNDAI 3 PHASE INDUCTION MOTOR



OUTPUT	2000HP, 2P	INPUT	3Phase, 4000V, 251.3A, 60Hz
FRAME SIZE	450	ROTOR TYPE	SQUIRREL CAGE
TYPE	HNP3 451-28E	DUTY TYPE	S1 (Continuous)
ENCLOSURE TYPE	WP II (IP24W)	SERVICE FACTOR	1.15
SPEED AT FULL LOAD	3554 rpm	INSULATION CLASS	F
AMBIENT TEMP.	10-40 °C	TEMPERATURE RISE	B class
EFFICIENCY	95.2 %	POWER FACTOR	0.90
BEARING(D.E)	SLEEVE	BEARING(N-D.E)	SLEEVES
SPACE HEATER	1 ⌀	CODE LETTER	200 W
WEIGHT	5300 kg	MANUFACT'G DATE	2020.05
SERIAL NO.	20193136RMH840001		
Class I, Division 2, Group C&D, 73			

MADE IN KOREA

LUBRICATION FOR BEARING	
FORCED OIL	1-2 END BEARING
LIFE OIL	3-4 END BEARING
WATER	1-2 END BEARING
WATER	3-4 END BEARING
WATER	1-2 END BEARING
WATER	3-4 END BEARING

CAUTION

BEARING MONITORING SYSTEM (BMS) IS AVAILABLE FOR THIS MOTOR. CONTACT YOUR HYUNDAI ELECTRIC SALES REPRESENTATIVE FOR MORE INFORMATION.

NOISE

HYUNDAI ELECTRIC

1-82-50

100-1-1


 (QUALITY APPROVED & RELEASED FOR SHIPMENT)
 품질보증서 (품질보증서)
 품질보증서 (품질보증서)



HYUNDAI

ELECTRIC

HYUNDAI 3 PHASE INDUCTION MOTOR		INPUT	
OUTPUT	2000HP, 2P	ROTOR TYPE	
FRAME SIZE	450	DUTY TYPE	
TYPE	IMP3 451-2BE	SERVICE FACTOR	
ENCLOSURE TYPE	WP II (IP24W)	INSULATION CLASS	
SPEED AT FULL LOAD	3554 rpm	TEMPERATURE RISE	
EFFICIENCY	10~40 %	POWER FACTOR	
POWER FACTOR	95.2 %	BEARING(S)	
WEIGHT	SLEEVE	120 V	
	1 g	kg	
	5300	CODE LETTER	
	20193136RUM1840001	MANUFACTURE DATE	
	Group C&D T3		

MADE IN KOREA

LUBRICATION FOR BEARING			
VISCOSITY ISO VG		32	SAE
FORCED LUB.	OIL RATE	D-END BEARING	1 min / 1 min
		ND-END BEARING	1 min / 1 min
SELF LUB.	OIL PRESSURE	D-END BEARING	1.5 / 1.5
		ND-END BEARING	1.5 / 1.5

OIL CHARGING DURING STANDSTILL ONLY

CAUTION

BEFORE STARTING, CHECK IF THE BEARINGS IS FILLED WITH OIL TO THE SUFFICIENT OIL LEVEL.

PRIOR TO REMOVING END SHIELD, REMOVE THE SIDE COVER THEN DISASSEMBLE THE AIR EQUALIZATION INSTALL AND AIR DUCTS AND END SHIELD.

NOTICE

PLEASE ALWAYS CHECK THE MOTOR WITH THE DISPLAY BOARD THEN REMOVE THE OIL AND THEN CLEAN THE MOTOR.

CAUTION







ACCESSORY
TERMINAL CAB

CAUTION
INTRINSICALLY SAFE CIRCUIT

Access
Terminal Box

CAUTION
INTRINSICALLY SAFE CIRCUIT



