HD HYUNDAI ELECTRIC

Essential for Today
Potential for Tomorrow

Customer :
Project Name :
Project No. :
Revision No. :

SPECIFICATION
for
INDUCTION MOTOR

0		For Bidding			
No.	DATE	DESCRIPTION	PREPARED BY	CHECKED BY	APPROVED BY

AC INDUCTION MOTOR DATA SHEET

Catalog No.	HHI40-12-364T	Item No.		Rev. No.	[ ]
Project Name		Project No.		Quantity	sets

GENERAL SPECIFICATION

Frame Size		364T
Type		PJP
Enclosure(Protection)		Totally Enclosed / IP55
Method of Cooling		IC411(FC)
Rated Frequency		60 Hz
Number of Phases		3
Insulation Class		F
Temp. Rise at full load (by resistance method)		
	at 1.0 S.F	80 deg. C
Motor Location		☐ Indoor ☐ Outdoor
Altitude		Less than 1,000 meter
Relative Humidity		Less than 80 %
Ambient Temp.		40 deg. C (Max.)
Duty Type		Continuous (S1)
Service Factor		1.15
Mounting		B3
Bearing	Type	Anti-Friction
	DE/N-DE	6314C3 / 6213C3
	Lubricant	Grease(Polyrex-EM)
External Thrust		Not applicable
Coupling Method		☑ Direct ☐ V-belt
Shaft Extension		Single
Terminal Box	Main	Cast Iron
	Aux.	No
	Location	Refer to Outline Drawing
Application		
Area classification		Hazardous
Type of Ex-Protection		Class I&II, Division 2
Applicable Standard		NEMA MG1, CSA C390

ACCESSORIES

SPARE PARTS

PERFORMANCE DATA

Rated Output		30 kW		40 HP
Number of Poles		6		
Rotor Type		Squirrel Cage		
Starting Method*		D.O.L		
Rated Voltage		575 V	460 V	230 V
Current	Full Load	39.0 A	48.8 A	97.6 A
	Locked-rotor**	680 %	680 %	680 %
Efficiency				
	50% Load	91.1 %		
	75% Load	93.1 %		
	100% Load	94.1 %		
Power Factor(p.u)				
	50% Load	0.670		
	75% Load	0.770		
	100% Load	0.820		
Speed at Full Load		1185 r.p.m		
Torque				
	Full Load	178.35 lb.ft		
	Locked-rotor**	150 %		
	Breakdown**	220 %		
Moment of Inertia (J)				
	Load(Max.)	1,186.524 lb.ft2		
	Motor	26.650 lb.ft2		
Sound Pressure Level (No-load & mean value at 1m from motor)		73 dB(A)		
Vibration		3.8 mm/sec (peak)		
Permissible number of consecutive starts		Cold 3 times		
		Hot 2 times		
Paint	Munsell No.	4.0PB5.4/5.5(VL-451)		

SUBMITTAL DRAWING

Outline Dimension Drawing	\ Motor Weight(Approx.)	
B3	LM-T1364B3PL001	780 lb.

REMARK

1. Premium efficiency according to NEMA MG1
2. Inverter Duty @ 1.0 Service Factor & F Temperature rise
   -. 10:1 VT (20:1 VT at 50% load)
   -. 10:1 CT (1 hour duty, 4:1 continuous)
   -. CHP up to 1.5 times base speed, NEMA MG1 Part31
3. CSA Certification
   -. Class I, Division 2, Group A, B, C & D
   -. Class II, Division 2 Group E, F & G (Group E : up to 320Fr.)
4. Service Factor 1.15 and Temperature rise B are applicable under the condition of sine wave power.
5. Service Factor 1.25 is applicable to motors of 100HP or less with temperature rise F & Non-Hazardous.
6. Temp. code : T3B(165°C) at sine wave

Date	DSND	CHKD	CHKD	APPD
2025-07-22	S.H. LEE	I.K. KIM	R.G. KIM	S.W. KIM

[Note] Others not mentioned in this data sheet shall be in accordance with maker standard.
Above technical data are only design values and shall be guaranteed with tolerance of applicable standard.
Inspection and performance test shall be done according to maker standard, if not mentioned.

* In case of Inverter-Fed Motor, performance data is based on sine wave tests. It may be different from test data of Inverter combined motor.

** Data is based on rated voltage & frequency and is expressed as a percentage of full-load value.

REV	DATE	CONTENTS	REVD BY	CHKD BY	CHKD BY	APPD BY

▣ MAIN NAMEPLATE

4.72

2.36

CROWN TRITON
Premium Efficiency AC 3 Phase Motor

C US Energy Verified · CC038A

40HP	6P	230/460V		Cat. No.	HHI40-12-364T		
Model	HLS364SR06U3			INS. Class	F HD-F1	Amps	97.6/48.8A
Type	HLS	Duty	CONT	Code H	Amb. 40°C	Hertz	60Hz
Frame	364T	Encl.	TEFC	S.F. 1.15	RPM 1185	NEMA Nom. Eff.	94.1%
Bearing	Drive 6314C3			S.F.1.00 (10:1 C.T., 20:1 V.T., NEMA-MG1 Part31)		3/4 Eff.	93.1%
	Opp. 6213C3					NEMA Design	B Torque
Usable at	50Hz 40HP 380V 58.5A 981rpm S.F.: 1.0 Eff.: 92.9% Code: F						
	50Hz 40HP 400/415V 56.4/55.2A 983/984rpm S.F.: 1.0 Eff.: 93.2/93.4% Code: G/H						

CSA Certified for			Temp. Code (sine wave)	Frame	140~320FR	360~400FR	440FR
Model LATER	Type PJP			Amb. 40°C	T3C (160°C)	T3B (165°C)	T3A (180°C)
CLASS I, Div. 2, Gr. A, B, C & D CLASS I, Zone 2, Gr. IIA, IIB, & IIC	CLASS II, Div. 2 Gr. E, F & G (Gr. E : Up to 320FR)			Amb. 55°C	T3A (180°C)	T3A (180°C)	T3 (200°C)

No.	-	Date	-	Weight	780 lb

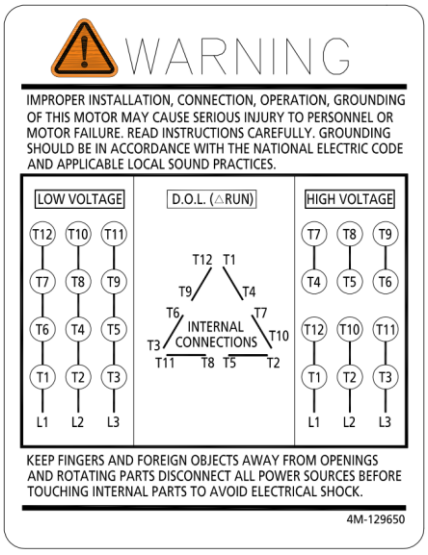
4M-135702
MARINE DUTY IEEE45

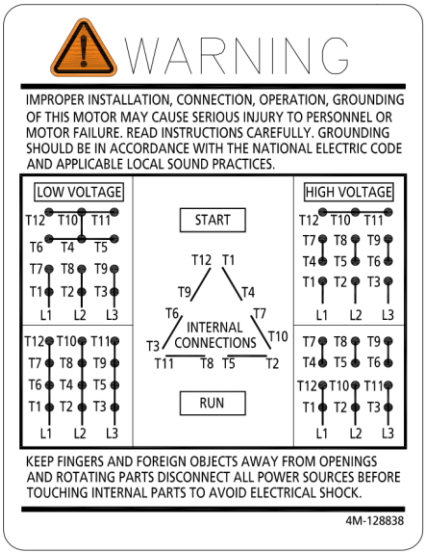
Made in Korea H1

HD HYUNDAI ELECTRIC

▣ WIRING DIAGRAM

D.O.L (INVERTER & SOFT STARTER)	WYE-DELTA (Y-D)





APPD BY	S.Y.KIM	UNIT	INCH
CHKD BY	I.K.KIM	SCALE	NONE
CHKD BY	R.G.KIM	PROJEC'N	3rd Angle
DSND BY	S.H.LEE	DATE	2024.06.07

SUBJECT	CSA Class I, Division2 Severe Duty (HHI, 364-449)	DWG SIZE A4 (1:1)
TITLE	NAMEPLATE DRAWING	
REF. NO	4M-135702 / 4M-129650	Sheet No. of
DWG NO	NP-HHI40-12-364T	Revision No. 0

HD HYUNDAI ELECTRIC

HYUNDAI ELECTRIC

PERFORMANCE CURVE

CURVE NO.

PC-HHI40-12-364T

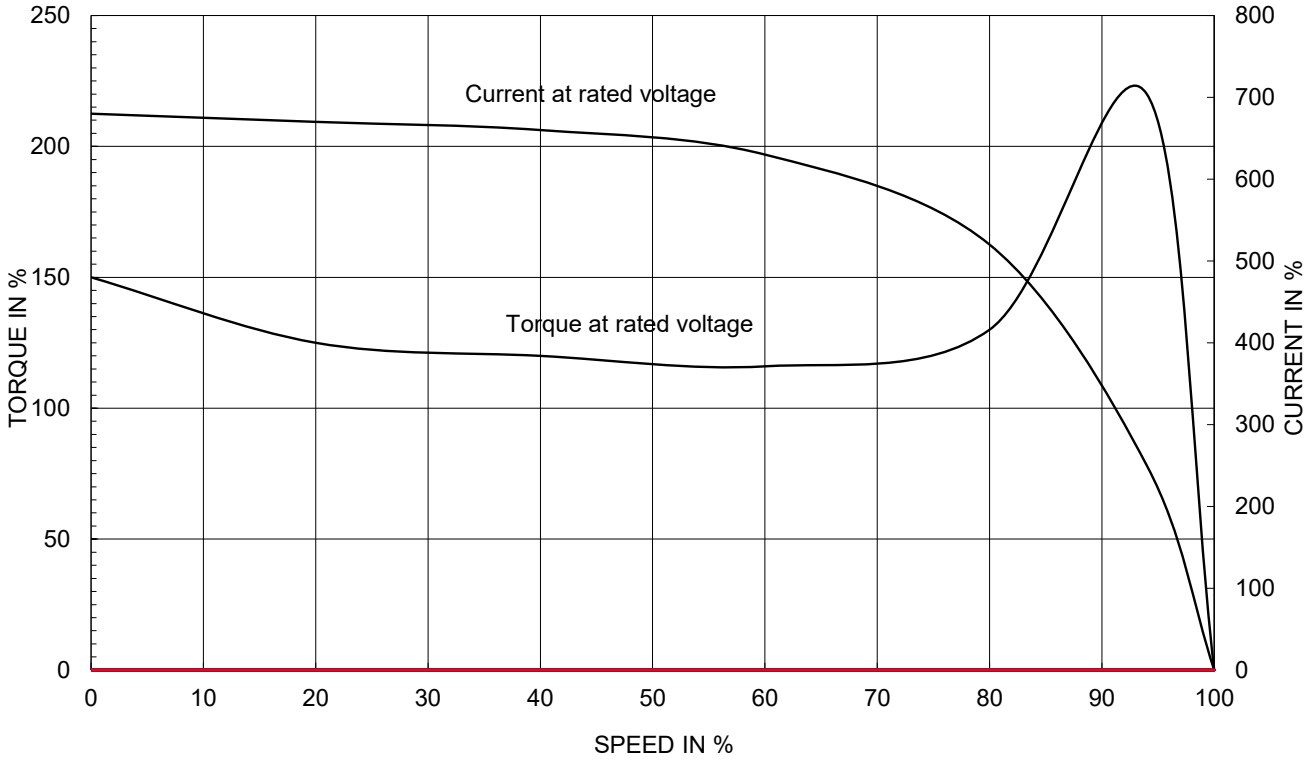
Type :	PJP	
Full Load Torque :	178.35	lb.ft
Load moment of Inertia (J) :	1186.524	lb.ft2
Motor moment of Inertia (J) :	26.650	lb.ft2

30kW 40HP 6 P 60 Hz

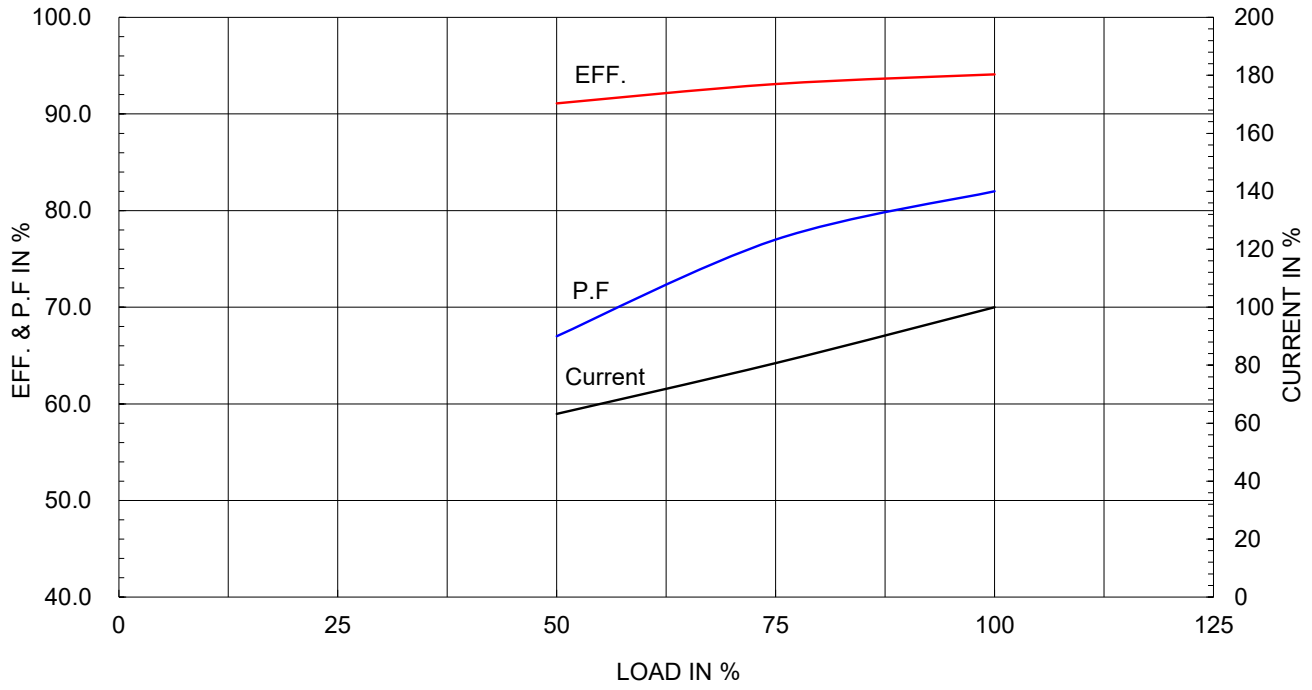
Speed at Full Load : 1185 RPM

Rated Voltage	575V	460V	230V
Full Load Current	39.0A	48.8A	97.6A

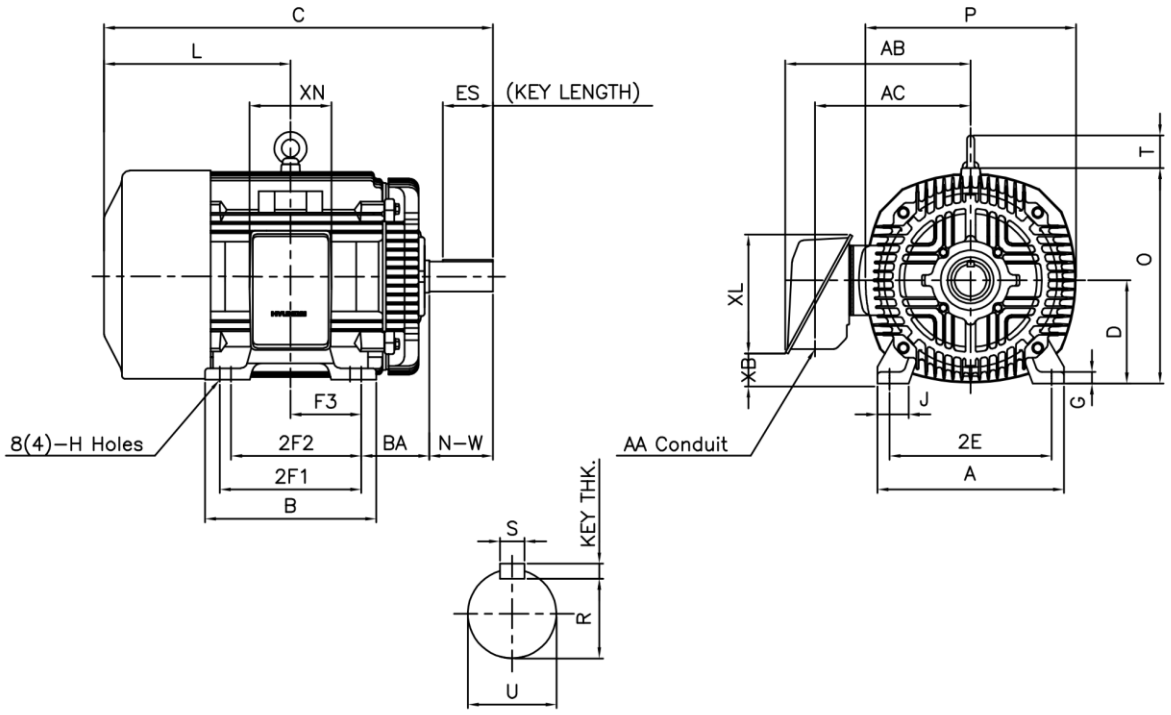
SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE



▽	50S	REV	DATE	CONTENTS	REVD BY	CHKD BY	CHKD BY	APPD BY
▽▽	12.5S							
▽▽▽	3.2S							
▽▽▽▽	0.4S							



DIMENSIONS

unit : inch

MOUNTING									CONDUIT BOX						APPROX. WGT.(LB)
A	B	2E	2F1	2F2	F3	G	J	H	AA	AB	AC	XB	XL	XN	
16.14	14.92	14.00	(12.25)	11.25	6.122	0.98	2.72	0.66	3.00	17.13	13.82	2.70	10.24	7.09	780

OVERALL							SHAFT					KEY	BEARING	
BA	C	D	L	O	P	T	U	N–W	KEYWAY R	KEYWAY ES	KEYWAY S	THK.	DRIVE END	OPP. DRIVE END
5.88	34.01	9.00	16.13	18.50	18.23	2.80	2.375	5.88	2.021	4.28	0.625	0.625	6314C3	6213C3

NOTE

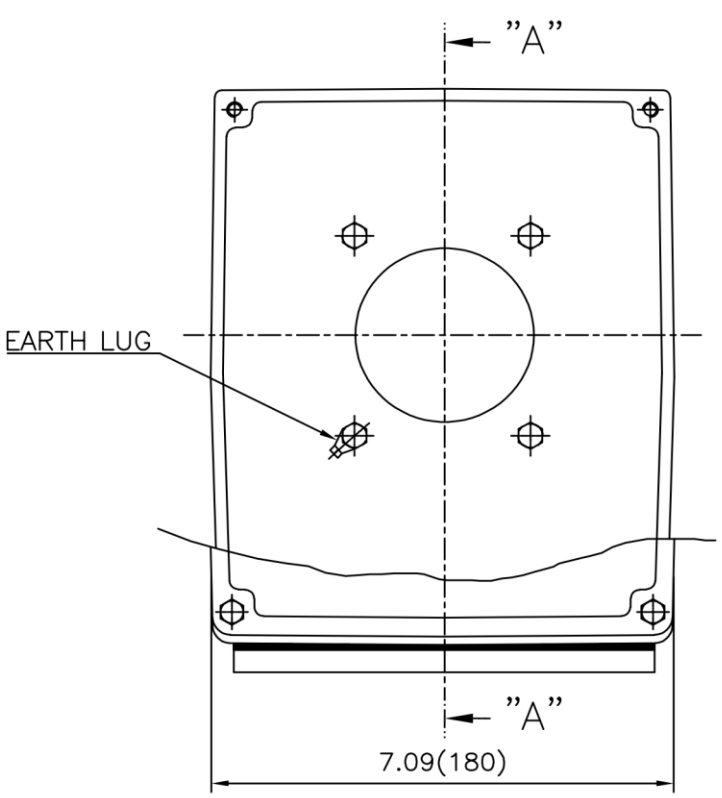
1. Dimension "D" tolerance : +0.00inch – 0.03inch (143T–365T) ; +0.000inch – 0.06inch (404T–449T)
2. Dimension "U" tolerance : +0.000inch – 0.005inch (143T–215T), +0.000inch – 0.001inch (254T–449T)
3. Dimension "R" tolerance : +0.000inch – 0.015inch

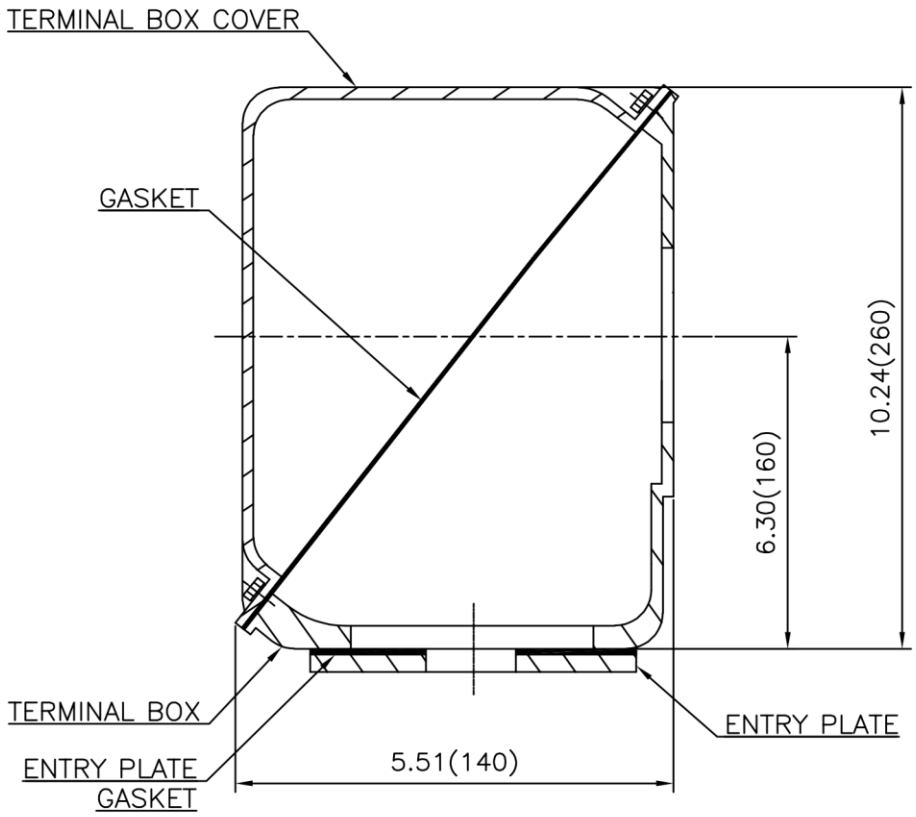
APPD BY	S.K.HAN	UNIT	INCH
Q.P CHK	I.K.KIM	SCALE	NONE
CHKD BY	R.G.KIM	PROJEC'N	3rd Angle
DSND BY	B.Y.KIM	DATE	2019.06.05

SUBJECT	364T		DWG SIZE A4 (1:1)
TITLE	OUTLINE		
REF. NO	350A1113AA	Sheet No.	of
DWG NO	LM–T1364B3PL001	Revision No.	0

HD HYUNDAI ELECTRIC

Cls. I&II, Div. 2
IEEE 841





SEC. "A"–"A"

▽	50S
▽▽	12.5S
▽▽▽	3.2S
▽▽▽▽	0.4S

REV	DATE	CONTENTS	REVD BY	CHKD BY	CHKD BY	APPD BY
	.					

일반기공공차		일반제관공차	
1–4	±0.1	6–30	±0.5
4–18	±0.2	30–120	±0.8
18–63	±0.3	120–315	±1.2
63–250	±0.5	315–1000	±2.0
250–	±0.8	1000–	±3.0

Q'TY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK	NO.

APPD BY	S.Y.KIM	UNIT	inch(mm)	SUBJECT	FR.360 (CAST IRON)
CHKD BY		SCALE	1/1.2		
CHKD BY	R.G.KIM	PROJEC'N	3rd Angle	TITLE	MAIN TERMINAL BOX ASS'Y
DSND BY	배슬희	DATE	2023-10-19		

DWG SIZE: A3 (1:1.2)

HD HYUNDAI ELECTRIC

REF. NO		Sheet No.	of
DWG NO	3M–248450	Revision No.	0