ABB BALDOR RELIANCE

Customer information packet

XEFRPM36604

60HP, 1800, 460V, HL364T, TEFC, F1

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Specifications

Enclosure	TEFC
Frame	HL364T
Frame Material	Exposed Laminations
Frequency	60.00 Hz
Output @ Frequency	60.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CCSA US
	NEMA PREMIUM
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Constant Torque Speed Range	1-60
Current @ Voltage	60.000 A @ 460.0 V
Duty Rating	CONT
Feedback Device	NO FEEDBACK
Frame Prefix	HL
Heater Indicator	No Heater
High Voltage Full Load Amps	60.0 a
Insulation Class	H
KVA Code	G
Motor Standards	NEMA
Mounting Arrangement	F1
Product Family	Fan - Centrifugal
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	2.374 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1800 rpm

Part Detail

Revision	G
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	LS7022A
Layout	619707-001
Eff. date	04-23-2019
CD Diagram	422927-001
Poles	04
Leads	
Proprietary	False
Created date	06-03-2016

Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat

Nameplate

000613007QF

DUTY	HP	RPM	AMPS	VOLTS	HZ
CONT	60	1800	60	460	60

CAT.NO.	XEFRPM36604		**SPEC. NO.**	H36-A000-0001							
SER.NO			**FRAME SIZE**	HL364T		**TYPE PSM**					
AMB.	40	**S.F.**	1.15	**ENCL.**	TEFC	**PH**	3	**DESIGN**	B	**CODE**	G
NEMA NOM. EFF	97	**GUARANTEED EFFICIENCY**	96.4	**POWER FACTOR**	98.6	**INSUL. CLASS**	H				
D.E. BRG.	75BC02J30X		**O.D.E. BRG.**	55BC02J30X							
VPWM INVERTER DUTY @1.0SF	**CHP HZ**	60-90	**CT HZ**	1-60		**VT HZ**	0-60				
	XT										

000692000VY

MEAS OPEN CIRCUIT VOLTAGE

IS **VOLTS AT** **RPM.**

S.O.	FRAME	HP	TYPE	PHASE	HERTZ	RPM
--	HL364T	60	PSM	3	60	1800

VOLTS	AMPS	DUTY	AMB°C	INSUL	S.F.	NEMA DESIGN
460	58.8	CONT	40	H	1.15	B

CODE LETTER	ENCL	ROTOR INERTIA ($lb\text{-}ft^2$)	STATOR RES.@ 25°C OHMS (BETWEEN LINES)	
G	TEFC	7.56	.1169	TYPICAL DATA

PERFORMANCE

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	25.1	1800	3.70	N/A
1/4	15.0	20.0	1800	74.6	94.0
2/4	30.0	30.6	1800	95.9	96.2
3/4	45.0	44.2	1800	98.4	96.8
4/4	60.0	58.8	1800	98.6	97.0
5/4	75.0	73.6	1800	98.1	97.0

SPEED TORQUE

	RPM	TORQUE (% FULL LOAD)	TORQUE (lb-ft)	AMPERES
LOCKED ROTOR	0	159	278.5	439.8
PULL OUT	1800	247	432.6	187.8
FULL LOAD	1800	100	175.2	58.8

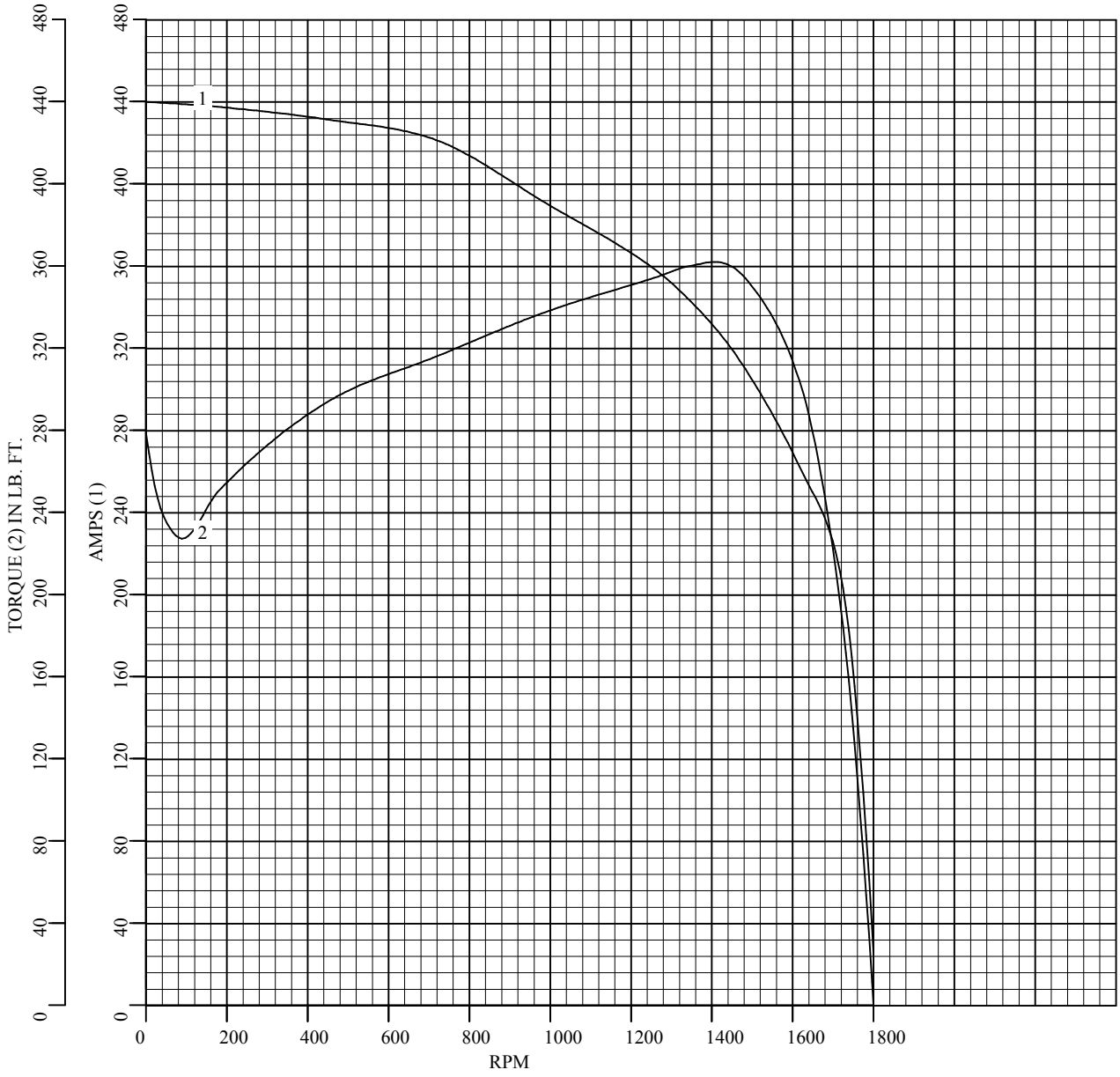
THIS IS A PERMANENT MAGNET MOTOR

GENERATED OPEN CIRCUIT LINE-LINE VOLTAGE at 25°C = 21.1 VOLTS PER 100 RPM

REMARKS:

S.O.	--	HERTZ	60	AMB°C	40	CODE LETTER	G
FRAME	HL364T	RPM	1800	INSUL	H	WK² (lb-ft²)	7.56
HP	60	VOLTS	460	S.F.	1.15	NEMA DESIGN	B
TYPE	PSM	AMPS	58.8	ENCL	TEFC	STATOR RES.@ 25°C	.1169
PHASE	3	DUTY	CONT			OHMS (BETWEEN LINES)	

Amps & Torque vs. RPM
During Acceleration



TYPICAL DATA

BALDOR
A MEMBER OF THE ABB GROUP

DR. BY	CAD
CK. BY	RFM
APP. BY	RFM
DATE	05/25/2016

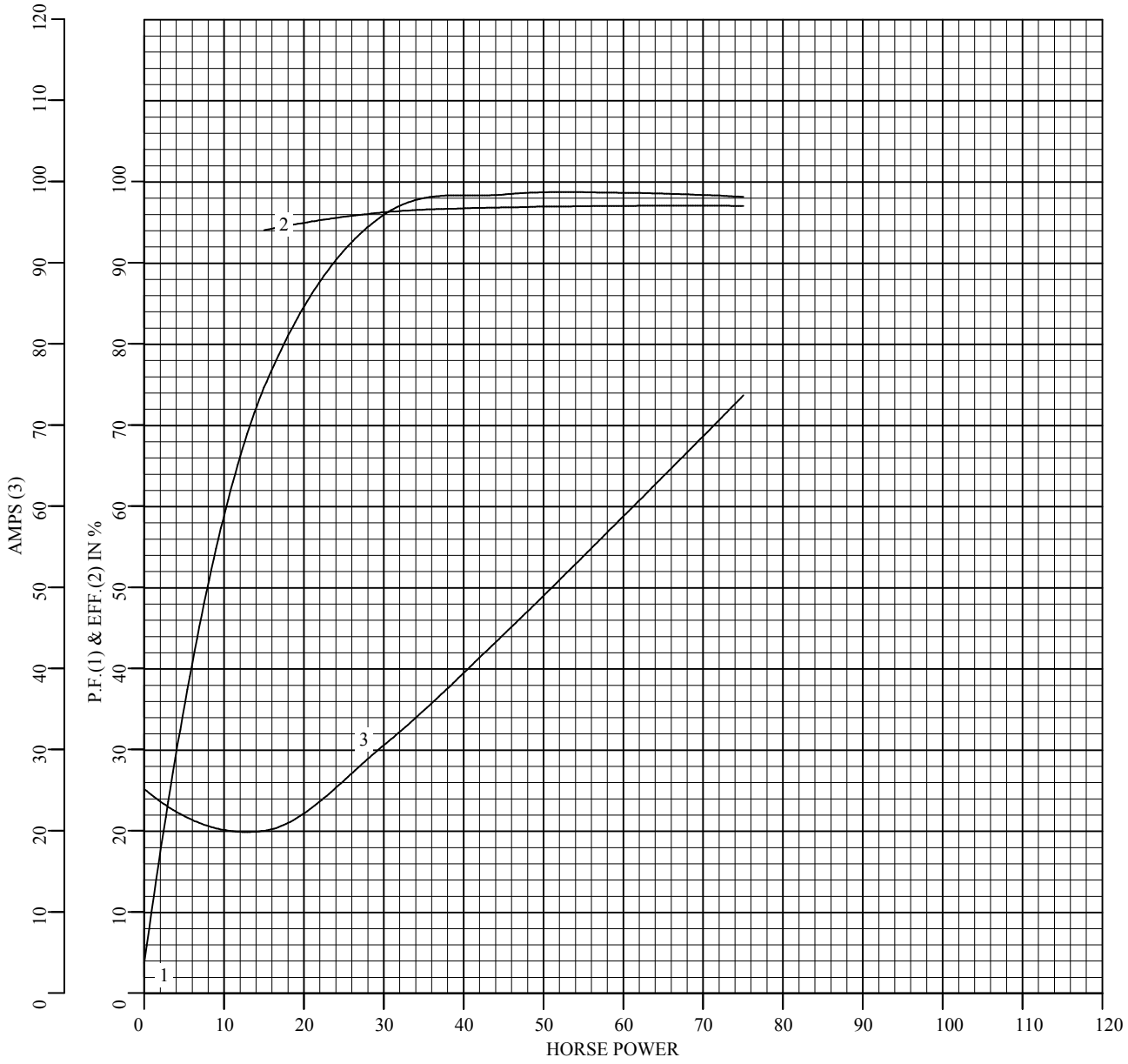
LSPM MOTOR PERFORMANCE CURVES

LS7022A

ISSUE DATE 05/25/2016

S.O.	--	HERTZ	60	AMB°C	40	CODE LETTER	G
FRAME	HL364T	RPM	1800	INSUL	H	WK² (lb-ft²)	7.56
HP	60	VOLTS	460	S.F.	1.15	NEMA DESIGN	B
TYPE	PSM	AMPS	58.8	ENCL	TEFC	STATOR RES.@ 25°C	.1169
PHASE	3	DUTY	CONT			OHMS (BETWEEN LINES)	

Performance Data vs. HP
At Synchronous Speed



TYPICAL DATA

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DR. BY	CAD
CK. BY	RFM
APP. BY	RFM
DATE	05/25/2016

LSPM MOTOR PERFORMANCE CURVES

LS7022A

ISSUE DATE 05/25/2016

RPM-AC FINNED FRAME VARIABLE SPEED ALTERNATING CURRENT MOTOR
NEMA HL364T

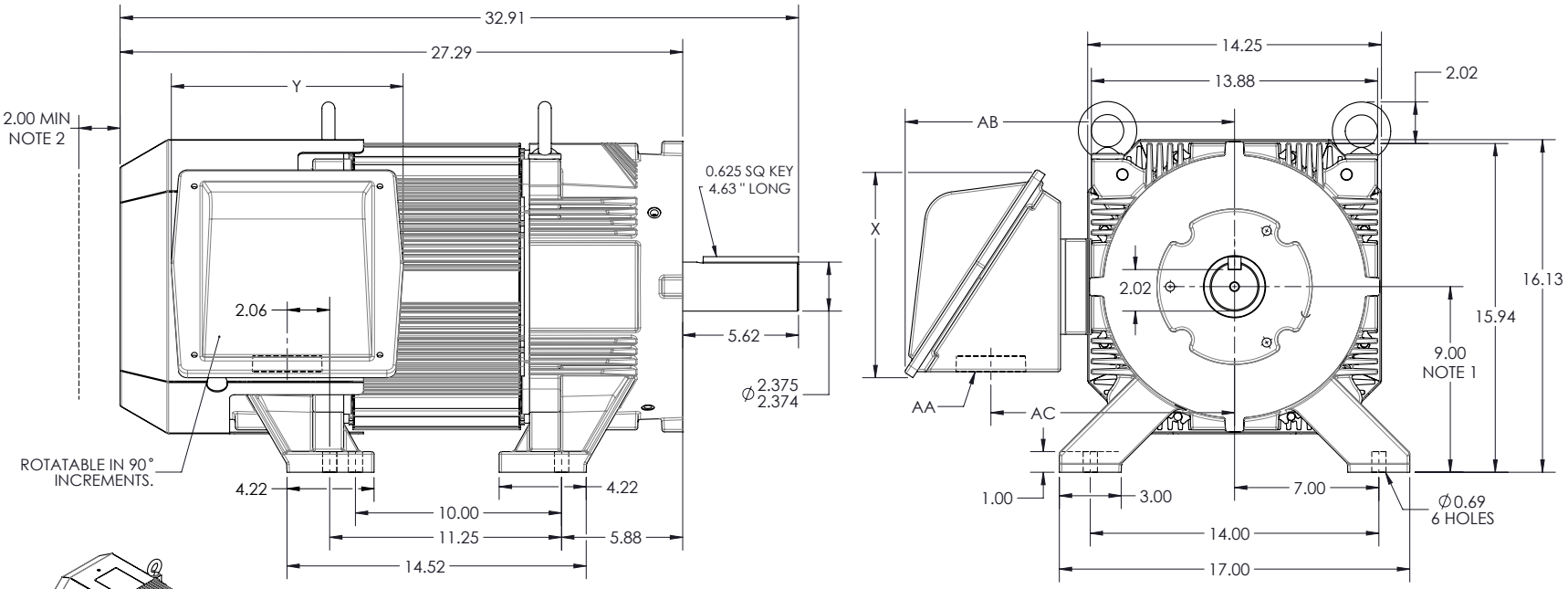
619707-001

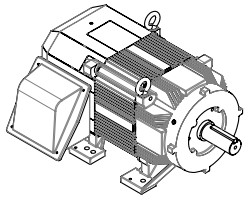
ENCLOSURE: TOTALLY ENCLOSED

MOUNTING: FOOT

DRIVE METHOD: DIRECT

COOLING: FAN COOLED





DIMENSIONS ARE IN INCHES

MOTOR WEIGHT: 690 LBS. (MAY VARY 15% FOR NON-STANDARD RATINGS AND / OR ACCESSORIES.)

TERMINAL BOX MAY BE LOCATED F1, F2, OR F3 IF SPECIFIED.
TERMINAL BOX MAY BE LOCATED DRIVE END OR OPPOSITE DRIVE END IF SPECIFIED.
REFER TO DATA TRANSMITTAL OR PARTS LIST FOR TERMINAL BOX PART NUMBER

TERMINAL BOX	X	Y	AA	AB	AC	MAX AMPS	REMARKS
706320-016A	10.56	9.00	4	16.20	12.06	305	STEEL
702658-001C	12.10	14.62	5	18.94	13.82	500	STEEL
706310-063B	15.37	14.78	--	18.65	14.29	400	MILL BOX
706310-063B	15.37	14.78	--	18.40	14.04	400	MILL BOX WITH TERMINAL STRIP
706320-013A	10.00	10.50	4.0 TAP	16.06	11.82	210	CAST IRON (AS SHOWN)
706320-014D	12.75	15.00	5	19.06	13.82	510	CAST IRON

NOTES:
1. SHAFT HEIGHT WILL NOT BE EXCEEDED. SHIMS UP TO 0.06 INCHES IN THICKNESS ARE USUALLY REQUIRED FOR COUPLED OR GEARED MACHINES.
2. WALLS OR OBSTRUCTIONS MUST NOT ENCROACH ON AIR INLET SPACE.

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

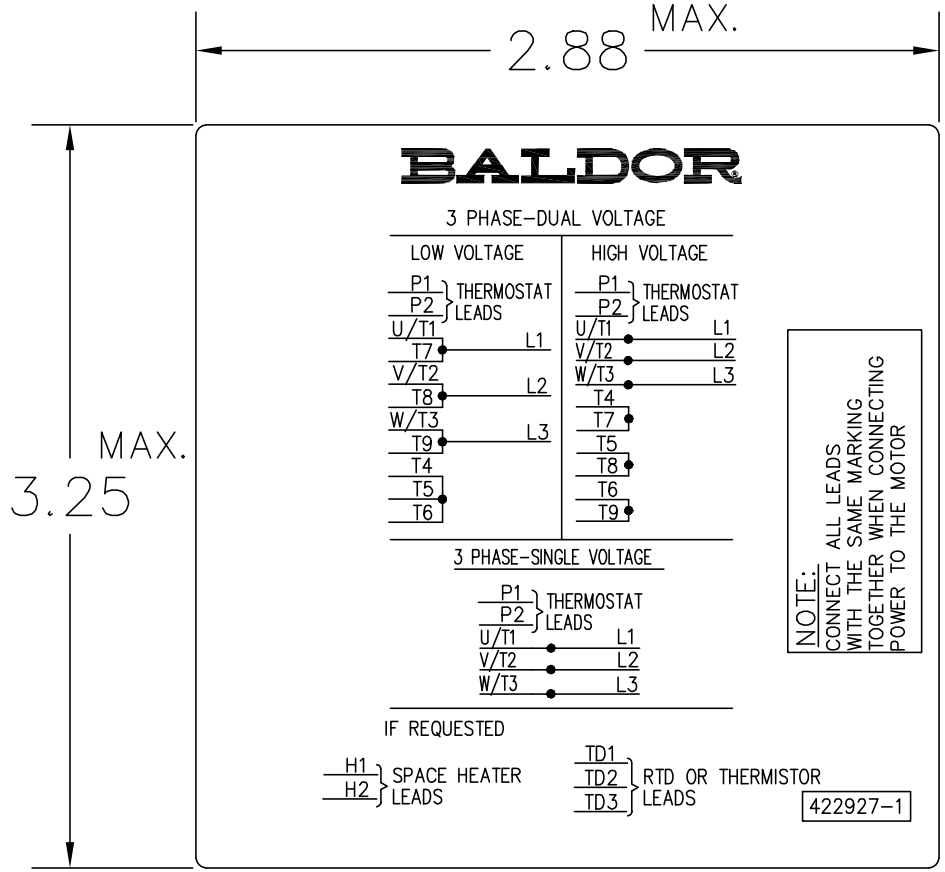
REV. DESC: UPDATE FAN CVR,C/BOX & TABLE,NAME TO HL			
REV: C	VERSION: 03	REVISED: 08:45:21 06/06/2016	TDR: 000000979577
MODEL NO. 619707-001			REF: -
BY: USMAWOO			B

BALDOR

DIM SHEET,NEMA HL364T,RPM-AC FL2873,TEFC

619707-001

422927–001



NOTE:
DATA TO BE SIZED SO THAT IT FITS INTO MATERIAL DECAL DIMENSIONS. MAKE LETTERS & NUMBERS AS LARGE AS POSIBLE.

MATERIAL: CERAMATIC DGF–P4 PERMA GRIP ADHESIVE

ALL LETTERS, NUMBERS AND LINES TO BE BLACK ON WHITE BACKGROUND.

422927–001

REV. DESC: CHANGE BACKGROUND COLOR FROM GOLD TO WHITE			BALDOR
REV. LTR: B	VERSION: 02	TDR: 000000788708	
FILE: \RGG\00000\203		REVISED: 08:09:29 03/04/2013	EXTERNAL CONNECTION LABEL
MTL: –		BY: RGGWT	SH 1 of 1