ABB BALDOR RELIANCE

Customer information packet

XEFRPM28254

25HP, 1800, 460V, HL284T, TEFC, F1

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Specifications

Enclosure	TEFC
Frame	HL284T
Frame Material	Exposed Laminations
Frequency	60.00 Hz
Output @ Frequency	25.000 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	25.200 A @ 460.0 V
Duty Rating	CONT
Feedback Device	NO FEEDBACK
Frame Prefix	HL
Heater Indicator	No Heater
High Voltage Full Load Amps	25.2 a
Insulation Class	H
KVA Code	G
Motor Standards	NEMA
Mounting Arrangement	F1
Overall Length	26.38 IN
Product Family	Fan
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	1.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible

Part Detail

Revision	F
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	LS7018A
Layout	619696-001
Eff. date	04-23-2019
CD Diagram	422927-001
Poles	04
Leads	
Proprietary	False
Created date	05-13-2016

Speed	1800 rpm
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat

Nameplate

000613007QF

DUTY	HP	RPM	AMPS	VOLTS	HZ
CONT	25	1800	25.2	460	60

CAT.NO.	XEFRPM28254		**SPEC. NO.**	H28-A000-0002							
SER.NO			**FRAME SIZE**	HL284T		**TYPE PSM**					
AMB.	40	**S.F.**	1.15	**ENCL.**	TEFC	**PH**	3	**DESIGN**	B	**CODE**	G
NEMA NOM. EFF	95.4	**GUARANTEED EFFICIENCY**	94.5	**POWER FACTOR**	95.2	**INSUL. CLASS**	H				
D.E. BRG.	50BC03J30X		**O.D.E. BRG.**	45BC02J30X							
VPWM INVERTER DUTY @1.0SF	**CHP HZ**	60-90	**CT HZ**	1-60		**VT HZ**	0-60				
	X/T										

000692000VY

MEAS OPEN CIRCUIT VOLTAGE

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

S.O.	FRAME	HP	TYPE	PHASE	HERTZ	RPM
--	HL284T	25	PSM	3	60	1800

VOLTS	AMPS	DUTY	AMB°C	INSUL	S.F.	NEMA DESIGN
460	25.8	CONT	40	H	1.15	B

CODE LETTER	ENCL	ROTOR INERTIA ($lb\text{-}ft^2$)	STATOR RES.@ 25°C OHMS (BETWEEN LINES)	
G	TEFC	1.82	.4081	TYPICAL DATA

PERFORMANCE

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	14.4	1800	3.90	N/A
1/4	6.25	11.9	1800	53.5	91.6
2/4	12.5	14.7	1800	83.8	94.8
3/4	18.7	19.9	1800	92.7	95.4
4/4	25.0	25.8	1800	95.2	95.4
5/4	31.2	32.2	1800	95.6	95.1

SPEED TORQUE

	RPM	TORQUE (% FULL LOAD)	TORQUE (lb-ft)	AMPERES
LOCKED ROTOR	0	177	129.2	187.1
PULL OUT	1800	253	184.6	94.7
FULL LOAD	1800	100	72.9	25.8

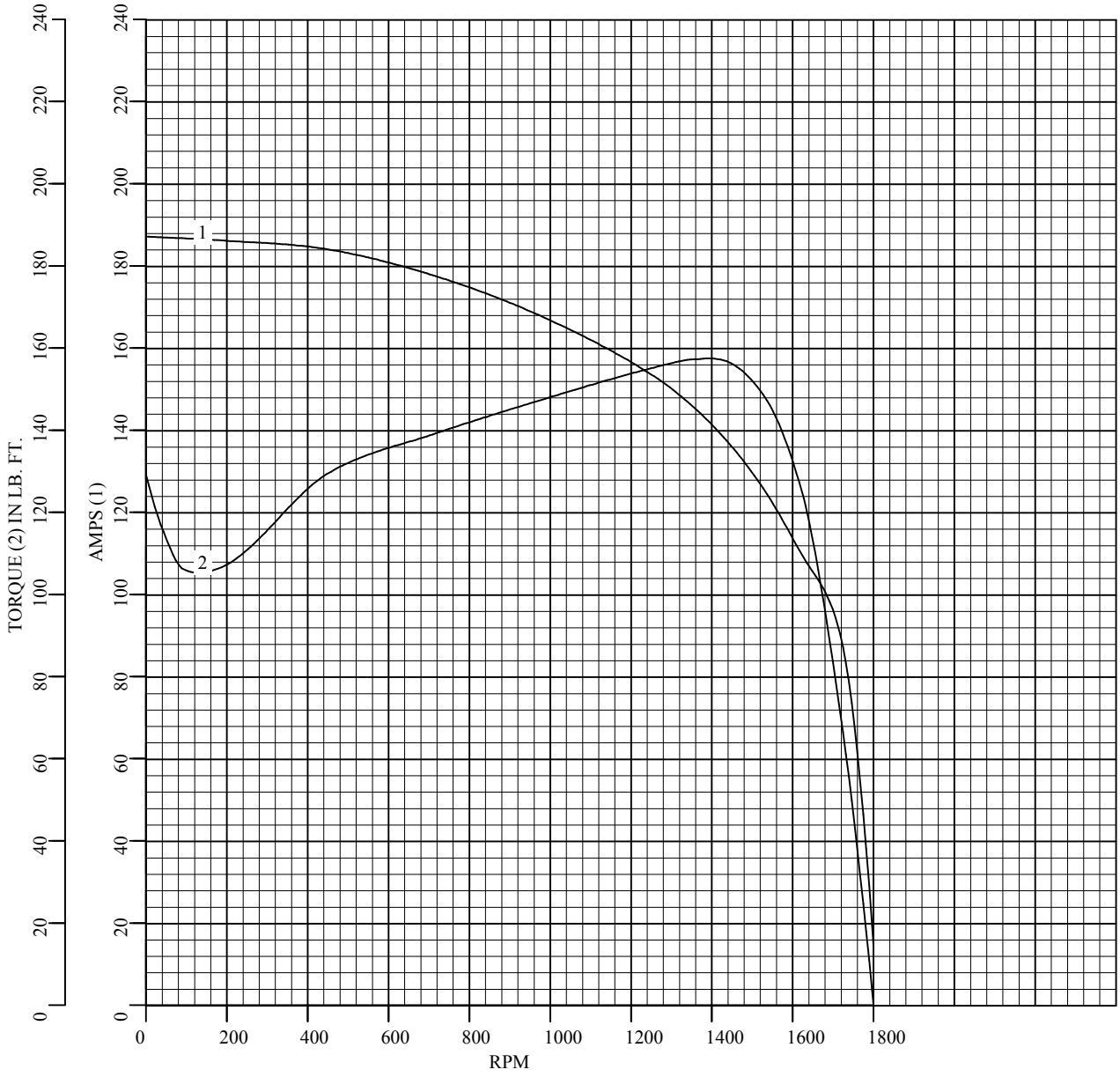
THIS IS A PERMANENT MAGNET MOTOR

GENERATED OPEN CIRCUIT LINE-LINE VOLTAGE at 25°C = 20.0 VOLTS PER 100 RPM

REMARKS:

S.O.	--	HERTZ	60	AMB°C	40	CODE LETTER	G
FRAME	HL284T	RPM	1800	INSUL	H	WK² (lb-ft²)	1.82
HP	25	VOLTS	460	S.F.	1.15	NEMA DESIGN	B
TYPE	PSM	AMPS	25.8	ENCL	TEFC	STATOR RES.@ 25°C	.4081
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

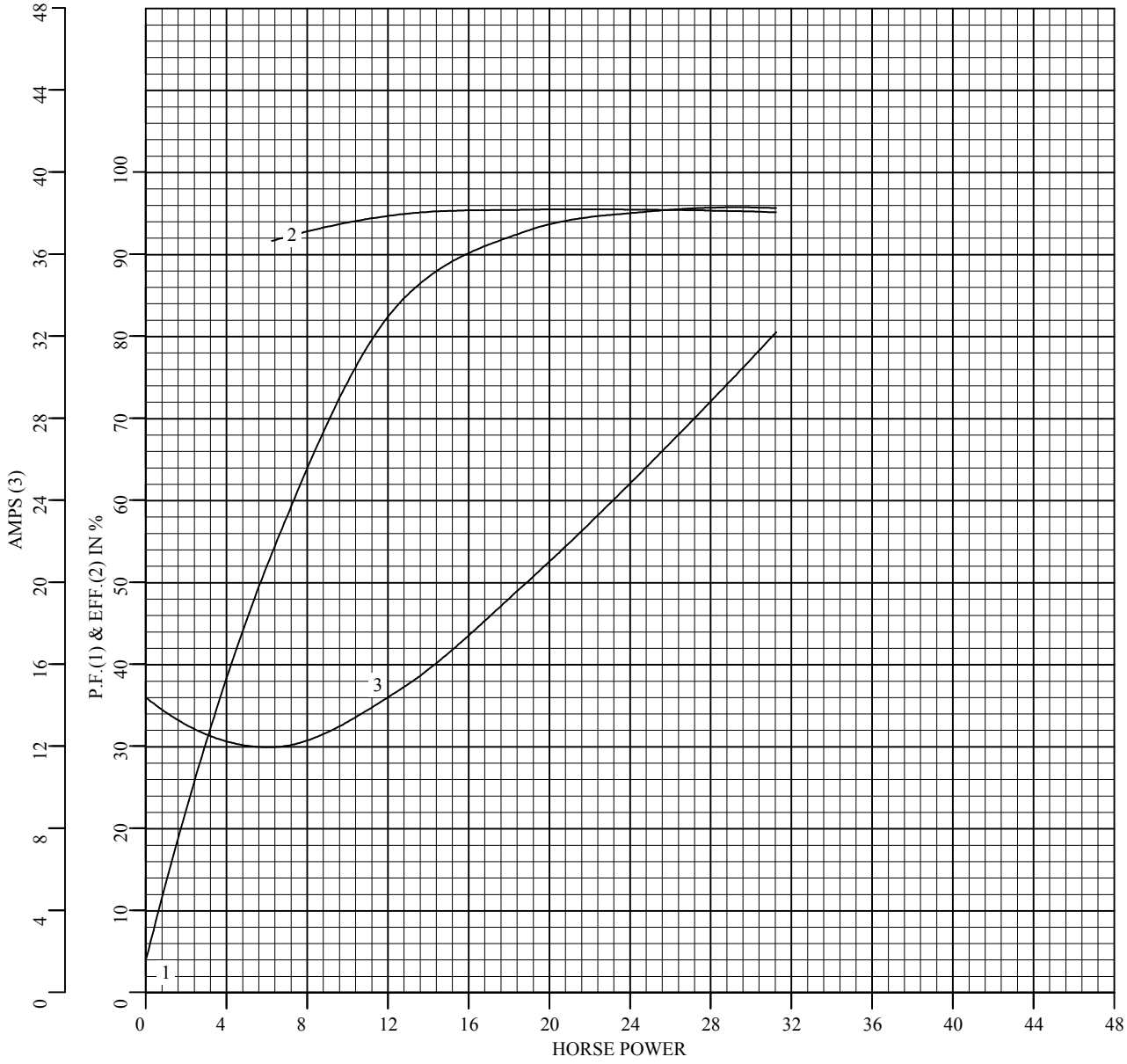
LSPM MOTOR PERFORMANCE CURVES

LS7018A

ISSUE DATE 05/25/2016

S.O.	--	HERTZ	60	AMB°C	40	CODE LETTER	G
FRAME	HL284T	RPM	1800	INSUL	H	WK² (lb-ft²)	1.82
HP	25	VOLTS	460	S.F.	1.15	NEMA DESIGN	B
TYPE	PSM	AMPS	25.8	ENCL	TEFC	STATOR RES.@ 25°C	.4081
PHASE	3	DUTY	CONT			OHMS (BETWEEN LINES)	

Performance Data vs. HP
At Synchronous Speed



TYPICAL DATA

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DR. BY	CAD
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APP. BY	RFM
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LSPM MOTOR PERFORMANCE CURVES

LS7018A

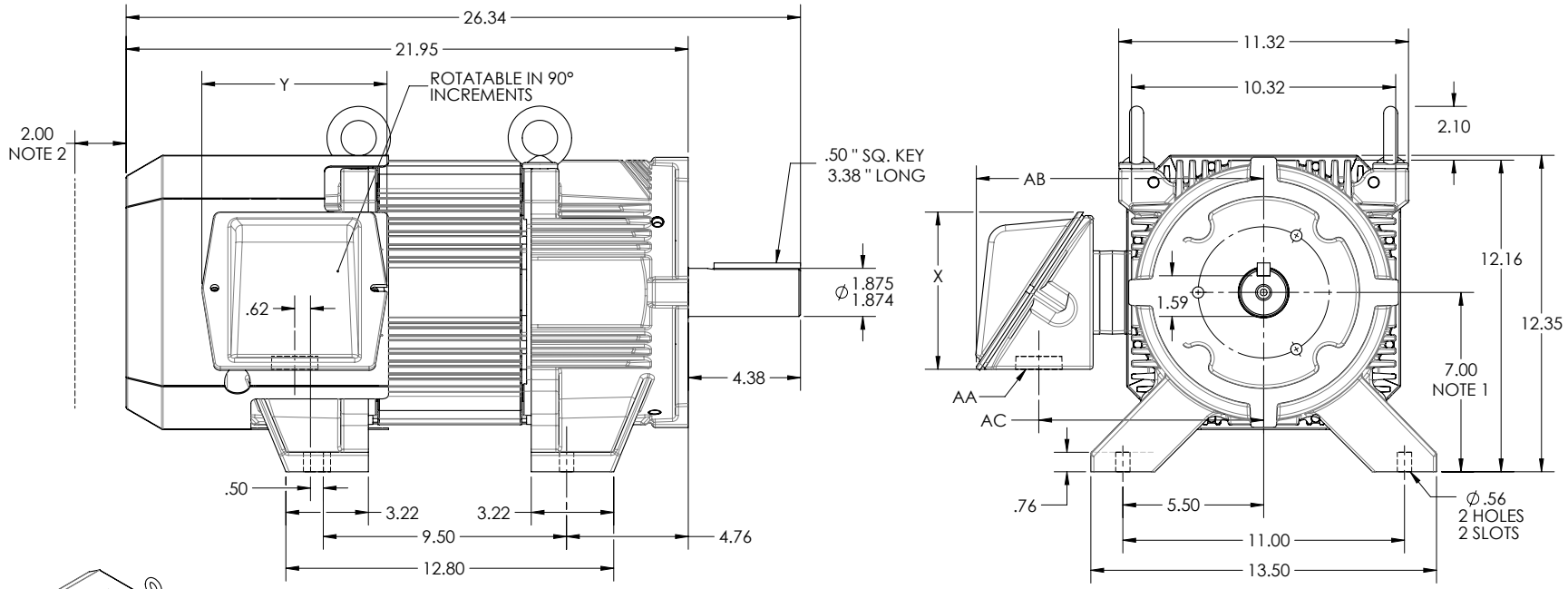
ISSUE DATE 05/25/2016

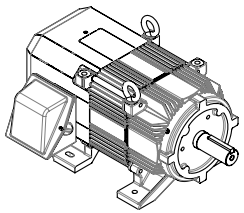
RPM-AC FINNED FRAME ALTERNATING CURRENT MOTOR
HL284T NEMA

ENCLOSURE: TOTALLY ENCLOSED
MOUNTING: FOOT
DRIVE METHOD: COUPLED

COOLING: FAN COOLED

619696-001





DIMENSIONS ARE IN INCHES

MOTOR WEIGHT: 290 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
075452-000B	5.44	6.34	1.75	10.28	8.29	61	STEEL
075454-001AJ	7.00	7.69	1.94	11.41	8.67	121	STEEL
075460-062B	6.00	7.25	1.5 TAP	11.22	8.78	110	CAST IRON (AS SHOWN)
706320-013A	9.50	10.50	4.0 TAP	14.10	9.92	210	CAST IRON
706310-056A	7.72	7.75	Pg36 &Pg16	10.30	8.20	100	TERMINAL STRIP
706310-056B	8.98	9.00	Pg36 &Pg16	10.86	8.45	160	TERMINAL STRIP

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

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.

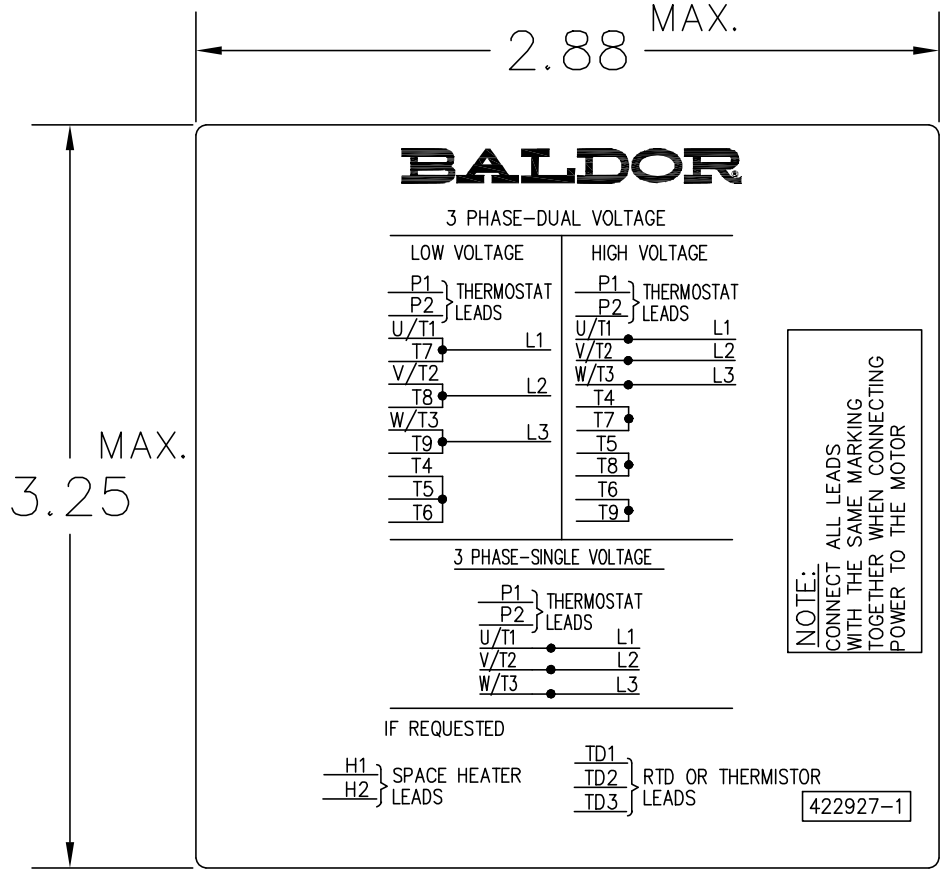
REV. DESC: UPDATE FAN CVR,CBOX AND SPACER,UPDATE NAME TO HL			
REV: B	VERSION: 02	REVISED: 03:07:53 05/24/2016	TDR: 000000979577
MODEL NO. 619696-001			REF: -
BY: USMAWOO			B

BALDOR

DIM SHEET,NEMA HL284T,RPM-AC FL2158,TEFC

619696-001

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