BALDOR • RELIANCE

Customer information packet

XEFRPM32504

50HP, 1800, 460V, HL326T, TEFC, F1

12/22/2025 8:23:34 PM

Specifications

Enclosure	TEFC
Frame	HL326T
Frame Material	Exposed Laminations
Frequency	60.00 Hz
Output @ Frequency	50.000 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	49.000 A @ 460.0 V
Duty Rating	CONT
Feedback Device	NO FEEDBACK
Frame Prefix	HL
Heater Indicator	No Heater
High Voltage Full Load Amps	49.0 a
Insulation Class	H
KVA Code	F
Motor Standards	NEMA
Mounting Arrangement	F1
Overall Length	30.81 IN
Product Family	Fan
Pulley End Bearing Type	Ball
Pulley Face Code	Other
Service Factor	1.15
Shaft Diameter	2.124 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible

Part detail

Revision	E
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	LS7021A
Layout	619699-001
Eff. date	04-23-2019
CD Diagram	422927-001
Poles	04
Leads	
Proprietary	False
Created date	05-06-2016

Speed	1800 rpm
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

000613007QF

DUTY	HP	RPM	AMPS	VOLTS	HZ
CONT	50	1800	49	460	60

CAT.NO.	XEFRPM32504		**SPEC. NO.**	H32-A000-0001							
SER.NO			**FRAME SIZE**	HL326T		**TYPE PSM**					
AMB.	40	**S.F.**	1.15	**ENCL.**	TEFC	**PH**	3	**DESIGN**	B	**CODE**	F
NEMA NOM. EFF	96.6		**GUARANTEED EFFICIENCY**	95.9		**POWER FACTOR**	97.2			**INSUL. CLASS**	H
D.E. BRG.	65BC03J30X		**O.D.E. BRG.**	50BC03J30X							
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
--	HL326T	50	PSM	3	60	1800

VOLTS	AMPS	DUTY	AMB°C	INSUL	S.F.	NEMA DESIGN
460	49.8	CONT	40	H	1.15	B

CODE LETTER	ENCL	ROTOR INERTIA ($lb\text{-}ft^2$)	STATOR RES.@ 25°C OHMS (BETWEEN LINES)	
F	TEFC	3.89	.1878	TYPICAL DATA

PERFORMANCE

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	19.8	1800	3.80	N/A
1/4	12.5	16.5	1800	75.4	94.1
2/4	24.9	25.7	1800	94.8	96.1
3/4	37.4	37.4	1800	97.2	96.6
4/4	49.9	49.8	1800	97.2	96.6
5/4	62.4	63.1	1800	96.2	96.4

SPEED TORQUE

	RPM	TORQUE (% FULL LOAD)	TORQUE (lb-ft)	AMPERES
LOCKED ROTOR	0	166	242.2	340.5
PULL OUT	1800	208	302.5	132.4
FULL LOAD	1800	100	145.7	49.8

THIS IS A PERMANENT MAGNET MOTOR

GENERATED OPEN CIRCUIT LINE-LINE VOLTAGE at 25°C = 20.4 VOLTS PER 100 RPM

REMARKS:

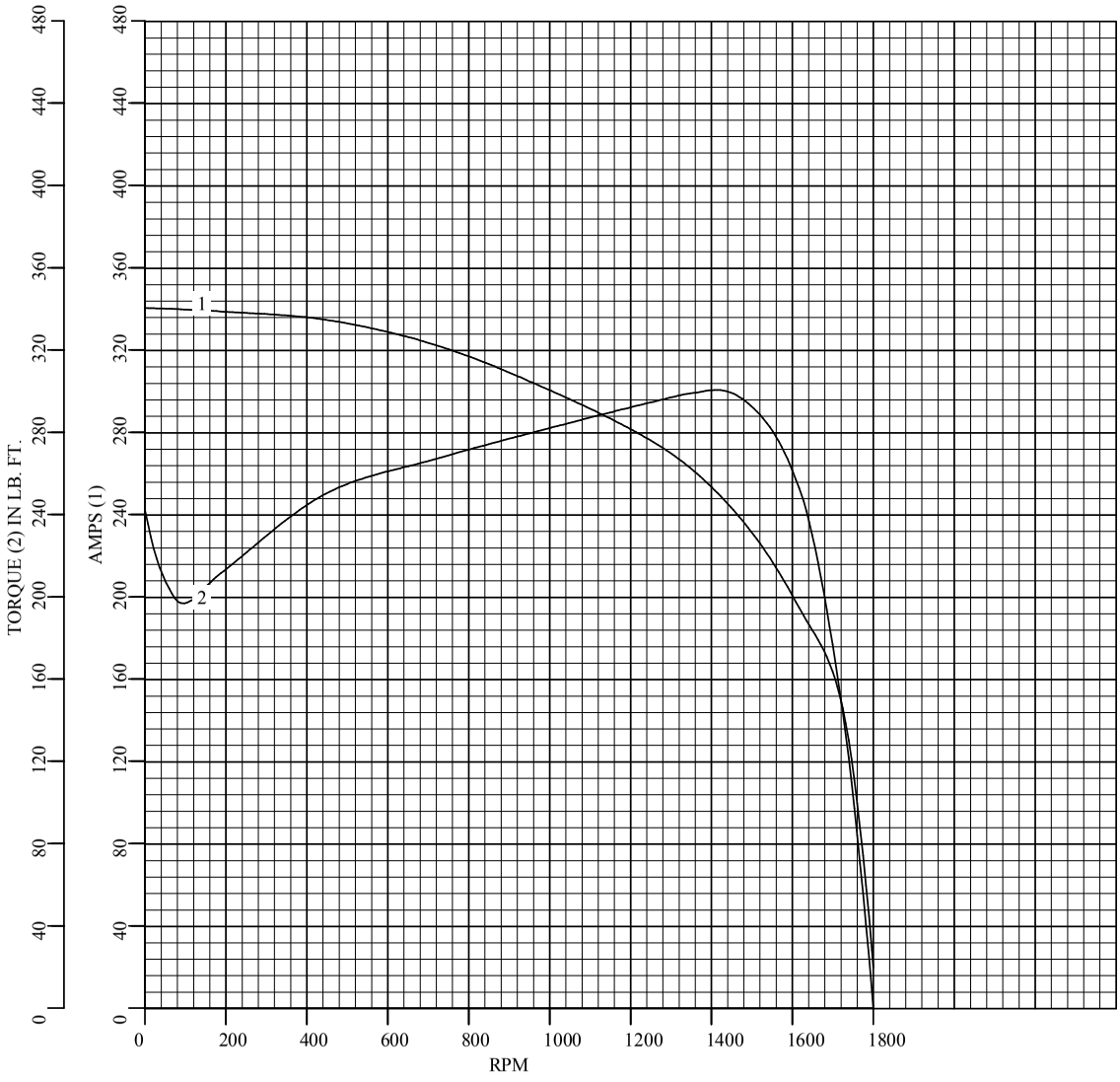
BALDOR
A MEMBER OF THE ABB GROUP

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

LSPM MOTOR PERFORMANCE DATA LS7021A
ISSUE DATE 05/25/2016

S.O.	--	HERTZ	60	AMB°C	40	CODE LETTER	F
FRAME	HL326T	RPM	1800	INSUL	H	WK² (lb-ft²)	3.89
HP	50	VOLTS	460	S.F.	1.15	NEMA DESIGN	B
TYPE	PSM	AMPS	49.8	ENCL	TEFC	STATOR RES.@ 25°C	.1878
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

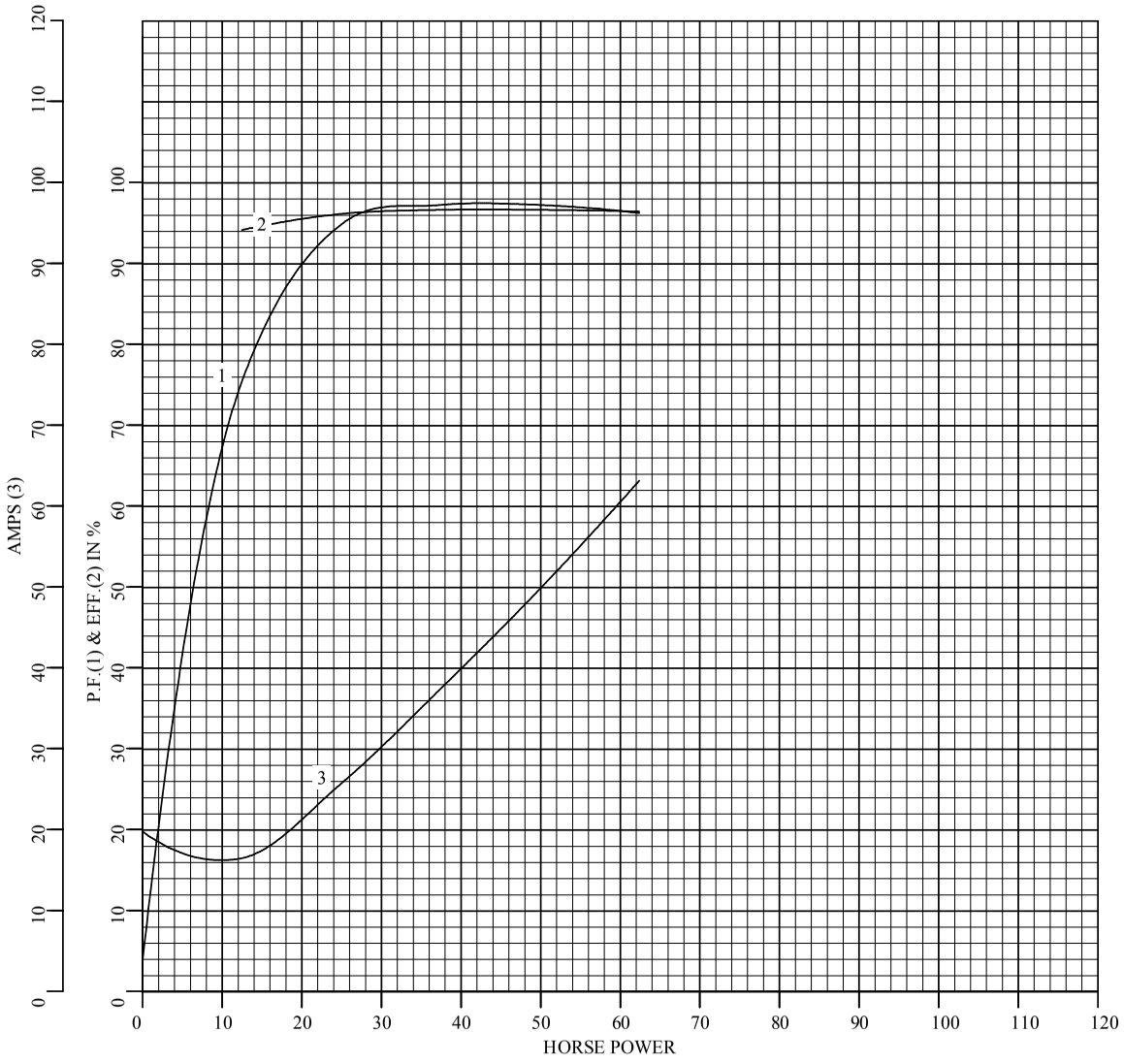
LSPM MOTOR PERFORMANCE CURVES

ISSUE DATE 05/25/2016

LS7021A

S.O.	--	HERTZ	60	AMB°C	40	CODE LETTER	F
FRAME	HL326T	RPM	1800	INSUL	H	WK^2 (lb-ft^2)	3.89
HP	50	VOLTS	460	S.F.	1.15	NEMA DESIGN	B
TYPE	PSM	AMPS	49.8	ENCL	TEFC	STATOR RES.@ 25°C	.1878
PHASE	3	DUTY	CONT			OHMS (BETWEEN LINES)	

Performance Data vs. HP
At Synchronous Speed



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

ISSUE DATE 05/25/2016

LS7021A

RPM-AC FINNED FRAME ALTERNATING CURRENT MOTOR
NEMA HL326T

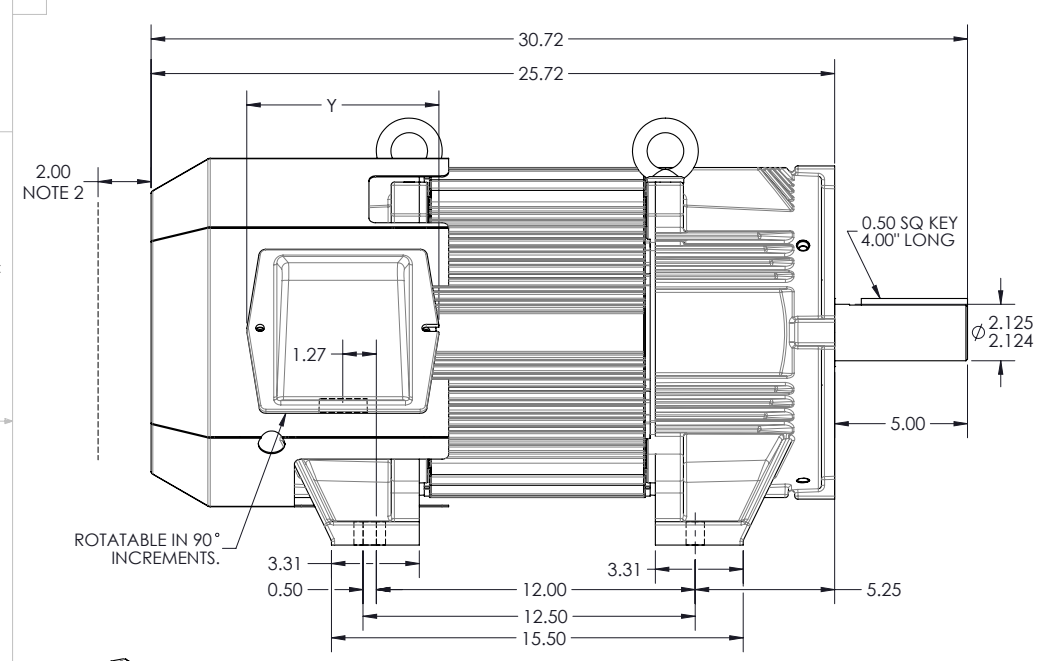
619699-001

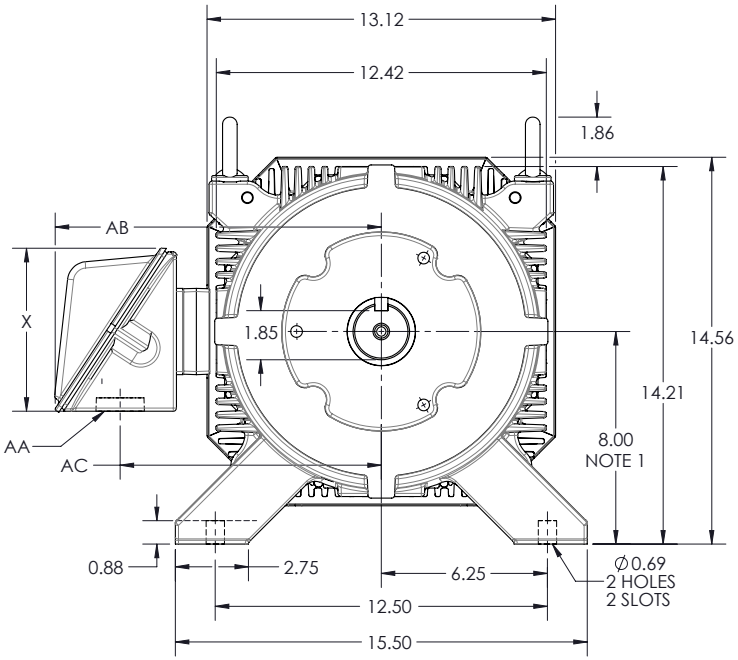
ENCLOSURE: TOTALLY ENCLOSED

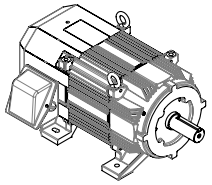
MOUNTING: FOOT

DRIVE METHOD: COUPLED

COOLING: FAN COOLED







DIMENSIONS ARE IN INCHES

MOTOR WEIGHT: 500 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	11.33	9.34	61	STEEL
075454-001AJ	7.00	7.69	1.94	12.46	9.72	121	STEEL
075460-062B	6.00	7.25	1.5 TAP	12.27	9.83	110	CAST IRON (AS SHOWN)
706320-013A	9.50	10.50	4.0 TAP	15.15	10.97	210	CAST IRON
706310-056A	7.72	7.75	Pg36 &Pg16	11.35	9.25	100	TERMINAL STRIP
706310-056B	8.98	9.00	Pg36 &Pg16	11.91	9.50	160	TERMINAL STRIP

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: 03:52:20 05/24/2016	TDR: 000000979577
MODEL NO. 619699-001			REF: -
BY: USMAWOO			B

BALDOR

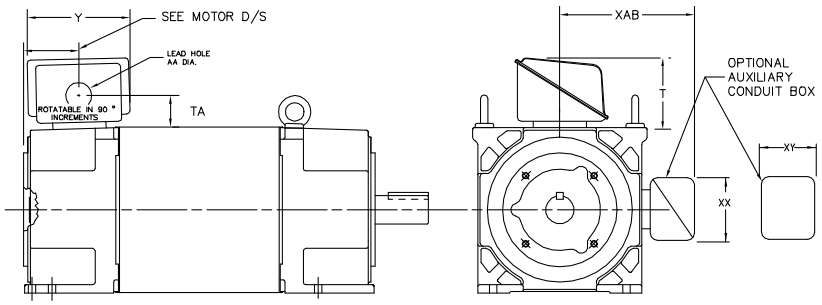
DIM SHEET,NEMA HL326T,RPM-AC FL2570,TEFC

619699-001

INDUSTRIAL ALTERNATING CURRENT MOTORS
RPM AC

STEEL, CAST IRON, MILL AND TERMINAL BOARD CONDUIT BOX DIMENSIONS

NEMA FRAMES RL210 thru RL280 and IEC FRAMES RDL132 thru RDL180
NEMA FRAMES FL180 thru FL280 and IEC FRAMES FDL112 thru FDL180



FRAME	TYPE	TERMINAL STRIP	AMPS	C/BOX	Y	TA	T	AA
FL180	STEEL	N	40	706320003A	5.00	1.62	3.00	1.12
FL180	STEEL	Y/N	75	706320005A	6.12	2.38	4.38	1.75/2.00
FL180	STEEL	N	208	706320007A	7.62	2.00	7.00	2.50/3.00
FL180	CAST IRON	Y/N	60	706320004C	5.75	2.38	4.38	1.0 TAP
FL180 & FDL11	MILL	Y	100	706310056A	7.75	2.30	4.40	PG29/PG16
FL210 & RL210	STEEL	N	61	075452000B	6.34	2.00	4.12	1.75
FL210 & RL210	STEEL	N	121	075454001AJ	7.69	2.38	5.25	1.94
FL210 & RL210	STEEL	N	305	706320016A	9.00	4.12	8.44	4.59
FL210 & RL210	CAST IRON	N	110	075460062B	7.25	2.50	5.25	1.5 TAP
FL210 & RL210 FDL13 & RDL13	MILL	Y	100	706310225R 706310056A	7.75	2.30	4.40	PG29/PG16
FL210 & RL210 FDL13 & RDL13	MILL	Y	160	706310226R 706310056B	9.00	3.06	5.40	PG36/PG16
FL210 & RL210 FDL13 & RDL13	MILL	Y/N	235	706310637A	11.42	4.00	6.72	2.50
FL250 & RL250	STEEL	N	61	075452000B	6.34	2.00	4.12	1.75
FL250 & RL250	STEEL	N	121	075454001AJ	7.69	2.38	5.25	1.94
FL250 & RL250	STEEL	N	305	706320016A	9.00	4.12	8.44	4.59
FL250 & RL250	CAST IRON	N	110	075460062B	7.25	2.50	5.25	1.5 TAP
FL250 & RL250	CAST IRON	N	210	706320013A	10.50	4.88	9.00	4.0 TAP
FL250 & RL250 FDL16 & RDL16	MILL	Y	100	706310225R 706310056A	7.75	2.30	4.40	PG29/PG16
FL250 & RL250 FDL16 & RDL16	MILL	Y	160	706310226R 706310056B	9.00	3.06	5.40	PG36/PG16
FL250 & RL250 FDL16 & RDL16	MILL	Y/N	235	706310637A	11.42	4.00	6.72	2.50
FL250 & RL250 FDL16 & RDL16	MILL	Y	400	706310063B	14.39	7.43	12.15	BLANK
FL280 & RL280	STEEL	N	160	706320009A	7.25	3.50	7.06	2.50
FL280 & RL280	STEEL	N	305	706320016A	9.00	4.12	8.44	4.59
FL280 & RL280	STEEL	N	500	702658001C	14.62	7.56	12.70	5.00
FL280 & RL280	CAST IRON	N	140	706320012B	9.25	4.81	8.56	3.0 TAP
FL280 & RL280	CAST IRON	N	210	706320013A	10.50	4.88	9.00	4.0 TAP
FL280 & RL280	CAST IRON	N	510	706320014D	15.00	7.56	12.81	5.0 TAP
FL280 & RL280 FDL18 & RDL18	MILL	Y	100	706310056A	7.75	2.30	4.40	PG29/PG16
FL280 & RL280 FDL18 & RDL18	MILL	Y	160	706310056B	9.00	3.06	5.40	PG36/PG16
FL280 & RL280 FDL18 & RDL18	MILL	Y/N	235	706310637A	11.42	4.00	6.72	2.50
FL280 & RL280 FDL18 & RDL18	MILL	Y	400	706310063B	14.39	7.43	12.15	BLANK

OPTIONAL AUXILIARY CONDUIT BOX DIMENSIONS (MAXIMUM)

FRAME SIZE	XAB	XX	XY	PART NUMBER	FRAME SIZE	XAB	XX	XY	PART NUMBER
FL210/FDL132/RL210/RDL132	7.38	4.25	4.25	602007-26-A	FL210/FDL132/RL210/RDL132	10.88	8.00	8.00	706310-3-B
FL250/FDL160/RL250/RDL160	8.44	4.25	4.25	602007-26-A	FL250/FDL160/RL250/RDL160	11.88	8.00	8.00	706310-3-B
FL280/FDL180/RL280/RDL180	9.12	4.25	4.25	602007-26-A	FL280/FDL180/RL280/RDL180	12.62	8.00	8.00	706310-3-B

(1) 'AA' CONDUIT.
(2) 'AA' PIPE TAP.
(3) CUSTOMER TO PROVIDE HOLE FOR CONDUIT.
(4) 2" DN -5A or 1" TAP DN -4C

TERMINAL BOX CAN BE ROTATED FOR LEAD OUTLET AT TOP, SIDES OR BOTTOM. TERMINAL BOX LOCATED ON OPPOSITE SIDE WHEN F-2, W-1, W-4, W-5, W-7, OR C-1 MOUNTING IS SPECIFIED. BOX LOCATED ON TOP WHEN SPECIFIED.

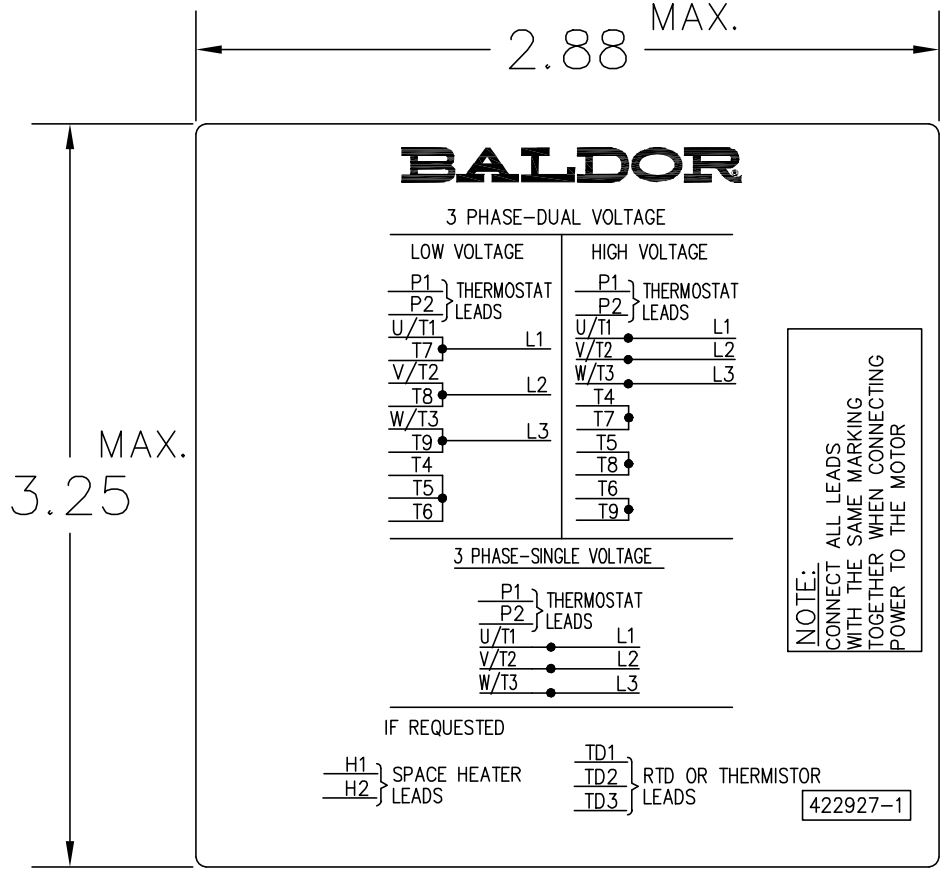
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

BALDOR - RELIANCE®

REV. DESC: ADD 706310-637 & 639 BOX		TDR: 00000118O260
REV. LTR: F	VERSION: 06	
FILE: \RGV\00003\692	REVISED: 11:08:56 10/26/2021	BY: RGGRWM
MTL: -		

DIM SHT NEMA RL210-RL280 FL180-FL280 IEC RDL132-RDL180
SH 1 of 1

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