

ABB BALDOR RELIANCE III

Customer information packet

IDBRPM5810004

1000HP, 1750, 460V, FL5832, TEBC, F3

Specifications

Enclosure	TEBC
Frame	FL5832Z
Frame Material	Exposed Laminations
Frequency	90.00 Hz
Output @ Frequency	1000.000 HP @ 90 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 90 HZ
Voltage @ Frequency	460.0 V @ 90 HZ
Agency Approvals	CCSA US
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	1151.000 A @ 460.0 V
Duty Rating	CONT
Feedback Device	ENCODER
Frame Prefix	FL
Heater Indicator	No Heater
High Voltage Full Load Amps	1151.0 a
Insulation Class	H
IP Rating	NONE
Motor Standards	NEMA
Mounting Arrangement	F3
Overall Length	106.80 IN
Product Family	General Industrial
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.00
Shaft Diameter	4.875 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Speed	1794 rpm
Starting Method	Full Voltage

Part Detail

Revision	A
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	L8264A
Layout	619717-002
Eff. date	01-19-2022
CD Diagram	422927-001
Poles	06
Leads	
Proprietary	False
Created date	07-29-2021

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

Nameplate

000613006MY									
	DUTY	HP	RPM	AMPS	VOLTS	HZ			
	CONT	1000	1794		1151	460	90		
	CONT	1000	2100		1135	460	105.4		
CAT.NO.	IDBRPM5810004			SPEC. NO.		F58-A000-0042			
SER.NO				FR	FL5832Z	INSUL	H		
PH.	3	MAX SAFE SPEED			2250	AMB.	40	MIN. AMB.	-25
DESIGN NO.	L8264A		TYPE			ENCL.	TEAO-BC		
S.F.	1.00		D.E. BRG.		140BC02J30X				
ENCL MOD			O.D.E. BRG.		130RU02M30X				
	IP44								

FRAME	FL5832	AMPS	1151	MAX SAFE SPEED	2250				
HP	1000	DUTY	CONT	IM (AMPS)	404	R1	.00077	X1	.0241
BASE SPEED	1794	S.F.	1.0	P.F. @NL / FL	.022/.853	R2	.00063	X2	.0256
PHASE/HZ	3/90	AMB.°C / INSUL	40/H	WK ² (Lb-Ft ²)	750			XM	.634

RATED FULL LOAD DATA

	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
BASE SPEED	1793	1000	2927	460	90	1151
MAX SPEED	2100	1000	2500	460	105.4	1135
MIN SPEED	0	0	2927	2.68	.3270	1151

LOAD PERFORMANCE AT BASE SPEED

	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
NO LOAD	1800	0	0	460	90	404
1/4	1798	250	730	460	90	493
1/2	1797	501	1464	460	90	678
3/4	1795	750	2193	460	90	902
FULL LOAD	1793	999	2927	460	90	1151
0/L	1785	1990	5853	460	90	2283

REMARKS:

CALCULATED DATA

-



DRAWN BY: C. ETIENNE
CHECKED BY: B. GRANT
APPROVED BY: J. MARTIN
DATE: 03-21-19

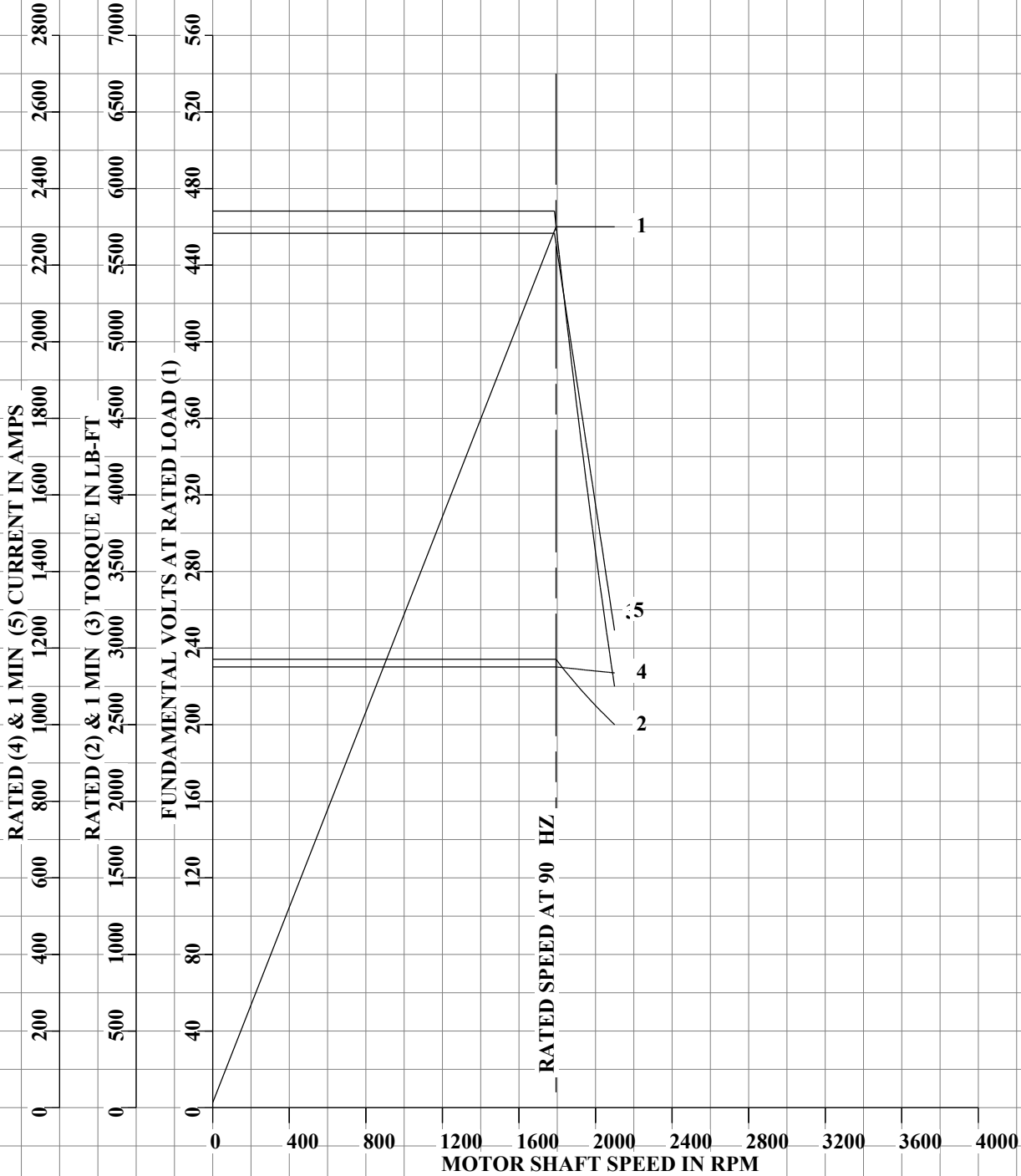
**AC MOTOR
PERFORMANCE
DATA**

L8264A

ISSUE DATE 03-21-19

FRAME	FL5832	VOLTS	460	ENCLOSURE	TEBC	WYE CONNEQ CKT OHMS PER PHASE (AT BASE RATING, 25°C)		
HP	1000	AMPS	1151	MAX SAFE SPEED	2250	R1	.00077	X1 .0241
BASE SPEED	1794	DUTY	CONT	IM (AMPS)	404	R2	.00063	X2 .0256
PHASE/HZ	3/90	S.F.	1.0	P.F. @NL / FL	.022/.853			XM .634
		AMB.°C / INSUL	40/H	WK ² (Lb-Ft ²)	750			

VARIABLE SPEED AC MOTOR CURVES



CALCULATED DATA, DATA VALID FOR NAMEPLATE SPEED RANGE ONLY



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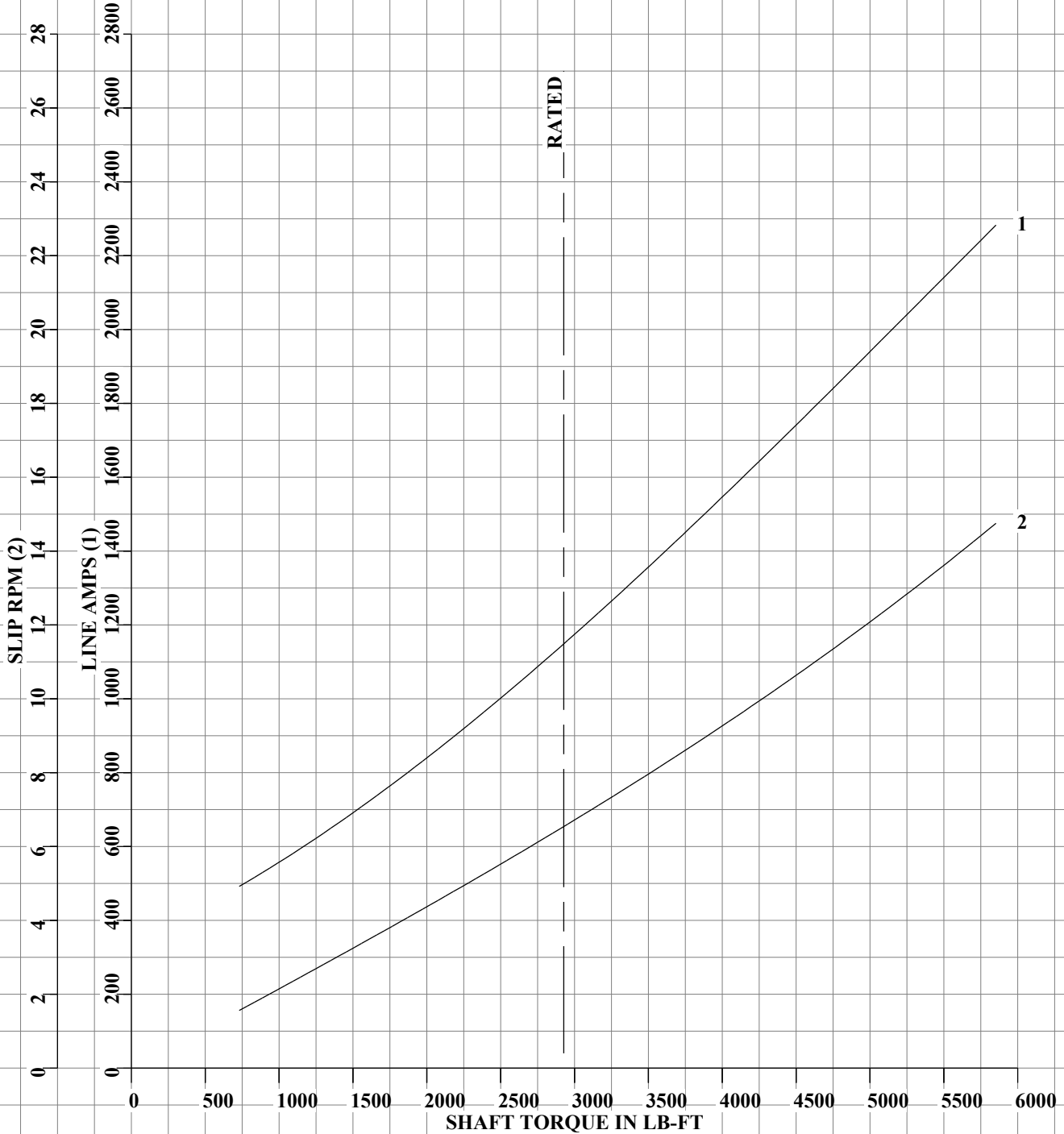
**AC MOTOR
PERFORMANCE
DATA**

L8264A

ISSUE DATE: 03-21-19

FRAME	FL5832	VOLTS	460	ENCLOSURE	TEBC	WYE CONNEQ CKT OHMS PER PHASE (AT BASE RATING, 25°C)		
HP	1000	AMPS	1151	MAX SAFE SPEED	2250	R1	.00077	X1 .0241
BASE SPEED	1794	DUTY	CONT	IM (AMPS)	404	R2	.00063	X2 .0256
PHASE/HZ	3/90	S.F.	1.0	P.F. @NL / FL	.022/.853			XM .634
		AMB.°C / INSUL	40/H	WK ² (Lb-Ft ²)	750			

LOAD PERFORMANCE (CONSTANT V/HZ RANGE)



CALCULATED DATA, DATA VALID FOR NAMEPLATE SPEED RANGE ONLY

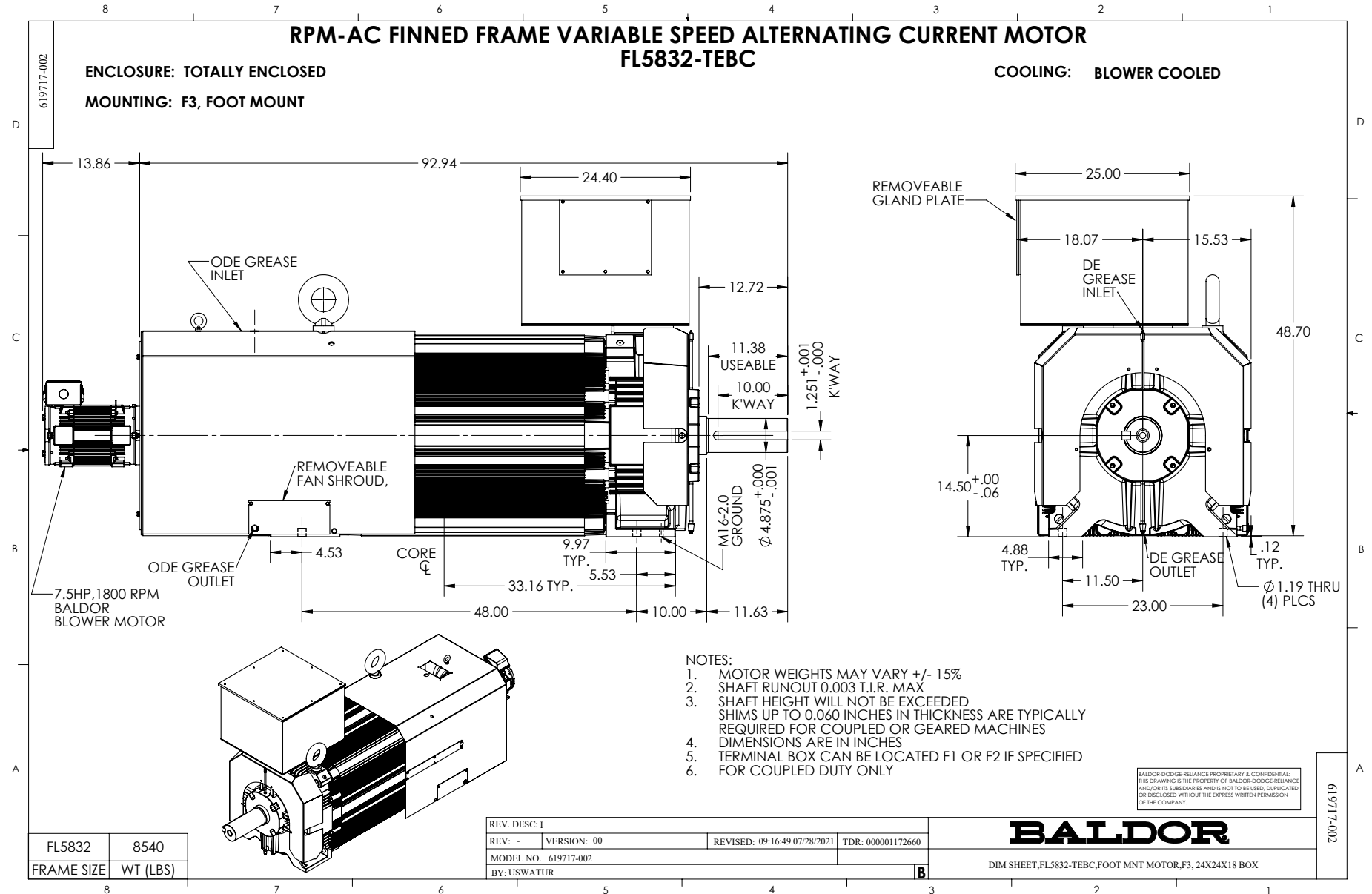


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**AC MOTOR
PERFORMANCE
DATA**

L8264A

ISSUE DATE: 03-21-19



RPM-AC FINNED FRAME VARIABLE SPEED ALTERNATING CURRENT MOTOR

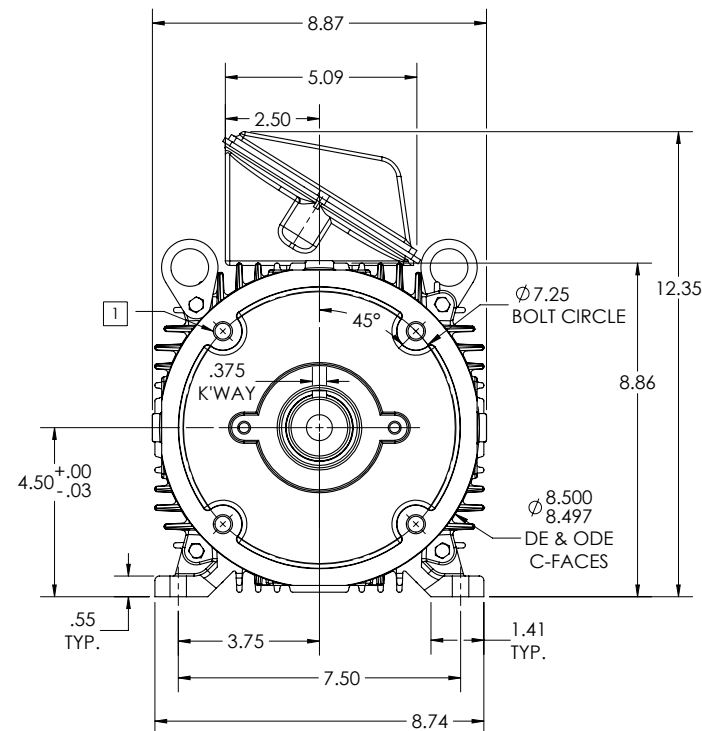
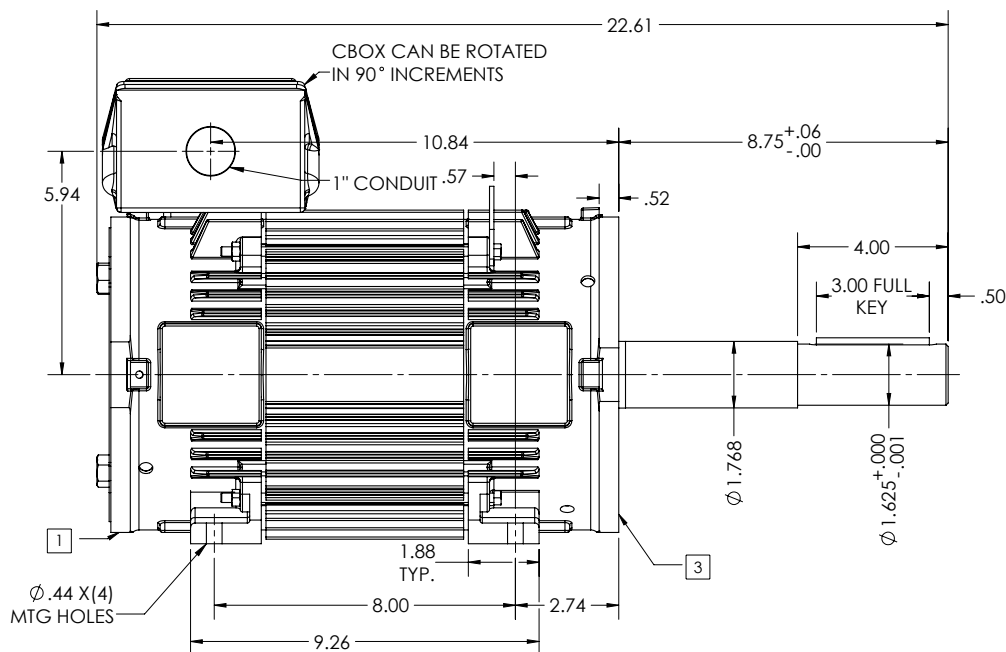
ENCLOSURE: TOTALLY ENCLOSED

FL1831CZ

COOLING: TEAO/TENV

MOUNTING: F3 FOOT/NEMA 180 C-FACE

DRIVE METHOD: DIRECT DRIVE



NOTES:

1. C-FACE & ODE TACH MOUNTING PROVISIONS = (4) 1/2-13 TAP X 1.0 DP
2. MOTOR WEIGHTS MAY VARY BY 15% DEPENDING ON RATING.
3. C-FACE FIT & FACE ECCENTRICITY = 0.004" T.I.R. MAX
4. DIMENSIONS ARE IN INCHES
5. MAXIMUM PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF SHAFT EXTENSION IS .003" T.I.R.
6. IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.

2 WEIGHT (LBS): 158.6

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

REV. DESC: INITIAL RELEASE

REV: - VERSION: 00

REVISED: 04/28/17 03/06/2017

TDR: 000001018909

MODEL NO. 617226-328

REF: -

BY: MGHJMZ2

BALDOR

DIM SHT FL1831CZ RPM AC TENV FT / NEMA 180 C FACE MTG

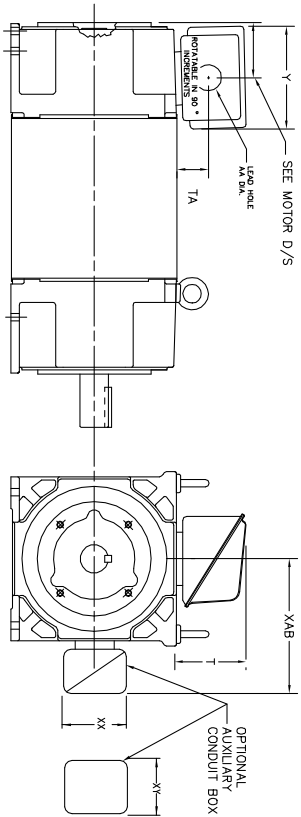
SHEET NUMBER

1 OF 1

617226-328

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	706320003A	6.12	2.35	4.38	1.75/2.00
FL180	STEEL	N	208	706320007A	6.62	2.00	7.00	2.50/3.00
FL180	CAST IRON	Y/N	208	706320004C	6.75	2.50	4.38	1.0/1.75
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	075452001A	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	075460052B	7.25	2.50	5.25	1.5 TAP
FL210 & RL210	MILL	Y	100	706310229A	7.75	2.30	4.40	PG29/PG16
FL210 & RL210	MILL	Y	160	706310056A	9.00	3.06	5.40	PG36/PG16
FL210 & RL210	MILL	Y/N	235	706310056B	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	075452001A	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	075460052B	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	MILL	Y	100	706310229A	7.75	2.30	4.40	PG29/PG16
FL250 & RL250	MILL	Y	160	706310056B	9.00	3.06	5.40	PG36/PG16
FL250 & RL250	MILL	Y/N	235	706310057A	11.42	4.00	6.72	2.50
FL250 & RL250	MILL	Y	400	706310063B	14.39	7.43	12.15	BLANK

FL280 & RL280	STEEL	N	160	706320029A	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	MILL	Y	100	706310056A	7.75	2.30	4.40	PG29/PG16
FL280 & RL280	MILL	Y	160	706310056B	9.00	3.06	5.40	PG36/PG16
FL280 & RL280	MILL	Y/N	235	706310057A	11.42	4.00	6.72	2.50
FL280 & RL280	MILL	Y	400	706310063B	14.39	7.43	12.15	BLANK

FRAME SIZE	YAB	XA	XY	PART NUMBER	FRAME SIZE	YAB	XA	XY	PART NUMBER
FL210/RL210/FL182	7.38	4.25	4.25	602007-26-A	FL210/RL210/FL182	10.88	8.00	8.00	706310-3-B
FL250/RL250/FL180	8.44	4.25	4.25	602007-26-A	FL250/RL250/FL180	11.88	8.00	8.00	706310-3-B
FL280/RL280/FL180	9.12	4.25	4.25	602007-26-A	FL280/RL280/FL180	12.62	8.00	8.00	706310-3-B

(1) 1"AW CONDUIT.
(2) 1"AW PIPE TAP.
(3) CUSTOMER TO PROVIDE HOLE PER CONDUIT.
(4) E-ON-5A OR 1" TAP ON-4C

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

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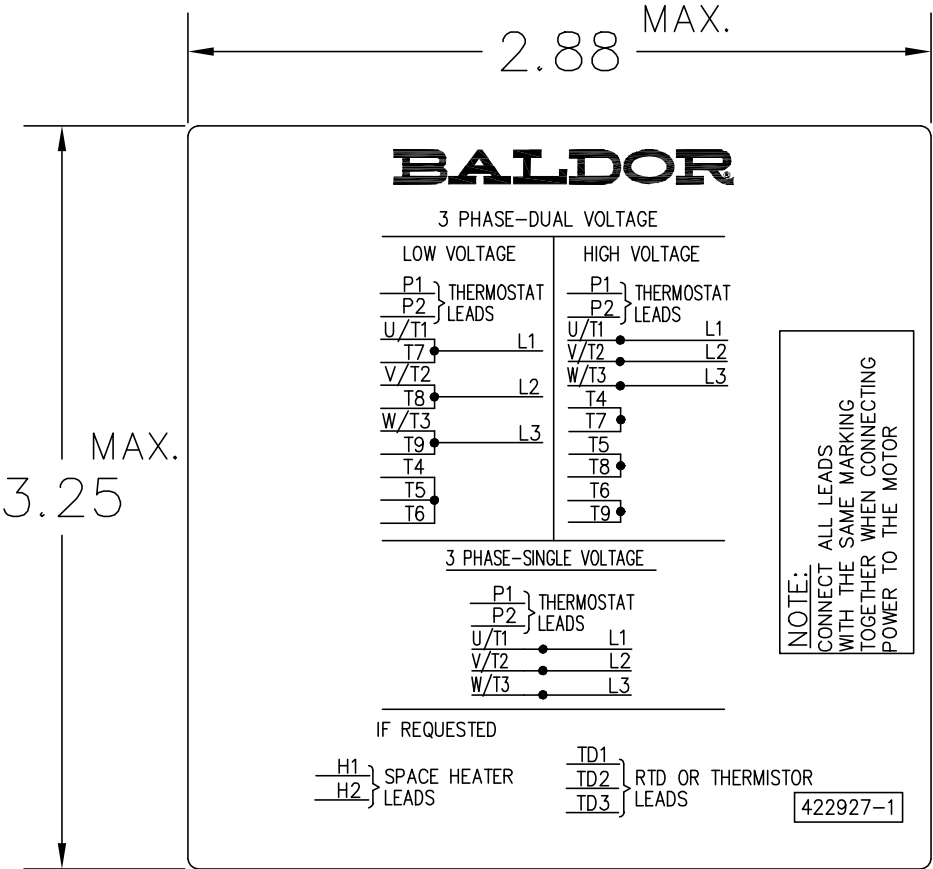
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REV. LTR: F	VERSION: 06
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MTL: -	BY: RCGRWM

BALDOR - RELIANCE®

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 POSSIBLE.

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		
REV. LTR: B	VERSION: 02	TDR: 000000788708
FILE: \RGG\00000\203	REVISED: 08: 09: 29 03/04/2013	
MTL: -	BY: RGGWT	

BALDOR

EXTERNAL CONNECTION LABEL

SH 1 of 1