



Customer information packet

ZDNRPM18074C

7.5HP, 1750RPM, 3PH, 60HZ, 1852C, TENV, FOOT

Specifications

Enclosure	TENV
Frame	FL1852CZ
Frame Material	Aluminum
Frequency	60.00 Hz
Output @ Frequency	7.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CCSA US
	UR
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	No Grease
Current @ Voltage	11.000 A @ 460.0 V
Duty Rating	CONT
Feedback Device	TACHOMETER
Frame Prefix	FL
Heater Indicator	No Heater
High Voltage Full Load Amps	11.0 a
Insulation Class	H
Motor Standards	NEMA
Mounting Arrangement	F3
Overall Length	26.37 IN
Product Family	General Industrial
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Service Factor	1.00
Shaft Diameter	1.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1775 rpm
Thermal Device - Bearing	None

Part detail

Revision	A
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	L3222A
Layout	617234-013
Eff. date	12-21-2021
CD Diagram	422927-001
Poles	04
Leads	
Proprietary	False
Created date	04-10-2015

Thermal Device - Winding

Normally Closed Thermostat

Nameplate

000613006MY							
	DUTY	HP	RPM	AMPS	VOLTS	HZ	
	CONT	7.5	1775	11	460	60	
	CONT	7.5	3560	9	460	120.5	
	CONT	7.5	1775	22	230	60	
	CONT	7.5	3560	18	230	120.5	
CAT.NO.	ZDNRPM18074C		SPEC. NO.		P18T0370		
SER.NO			FR	FL 1852CZ	INSUL	H	
PH.	3	MAX SAFE SPEED		7200	AMB.	40	MIN. AMB. -25
DESIGN NO.	L3222A		TYPE		ENCL.	TENV	
S.F.	1.0		D.E. BRG.	45BC02JPP30A			
ENCL MOD			O.D.E. BRG.	35BC02JPP30A			

S/O	-	VOLTS	460	ENCLOSURE	TENV	WYE CONN EQ CKT OHMS PER PHASE (AT BASE RATING, 25°C)		
FRAME	FL1852	AMPS	11	MAX SAFE SPEED	7200			
HP	7.5	DUTY	CONT	IM (AMPS)	6.5	R1	.425	X1 1.56
BASE SPEED	1775	S.F.	1.0	P.F. @NL / FL	.061/.742	R2	.324	X2 2.31
PHASE/HZ	3/60	AMB:°C / INSUL	40/H	WK² (Lb-Ft²)	.8	X3 40.3		

RATED FULL LOAD DATA

	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
BASE SPEED	1774	7.51	22	460	60	10.9
MAX SPEED	3557	7.51	11	460	120.5	9.84
MIN SPEED	0	0	22	13.0	.8780	10.9

LOAD PERFORMANCE AT BASE SPEED

	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
NO LOAD	1800	0	0	460	60	6.38
1/4	1793	1.88	6	460	60	6.96
1/2	1787	3.75	11	460	60	7.92
3/4	1780	5.63	17	460	60	9.26
FULL LOAD	1774	7.51	22	460	60	10.9
0/L	1744	14.8	44	460	60	18.6

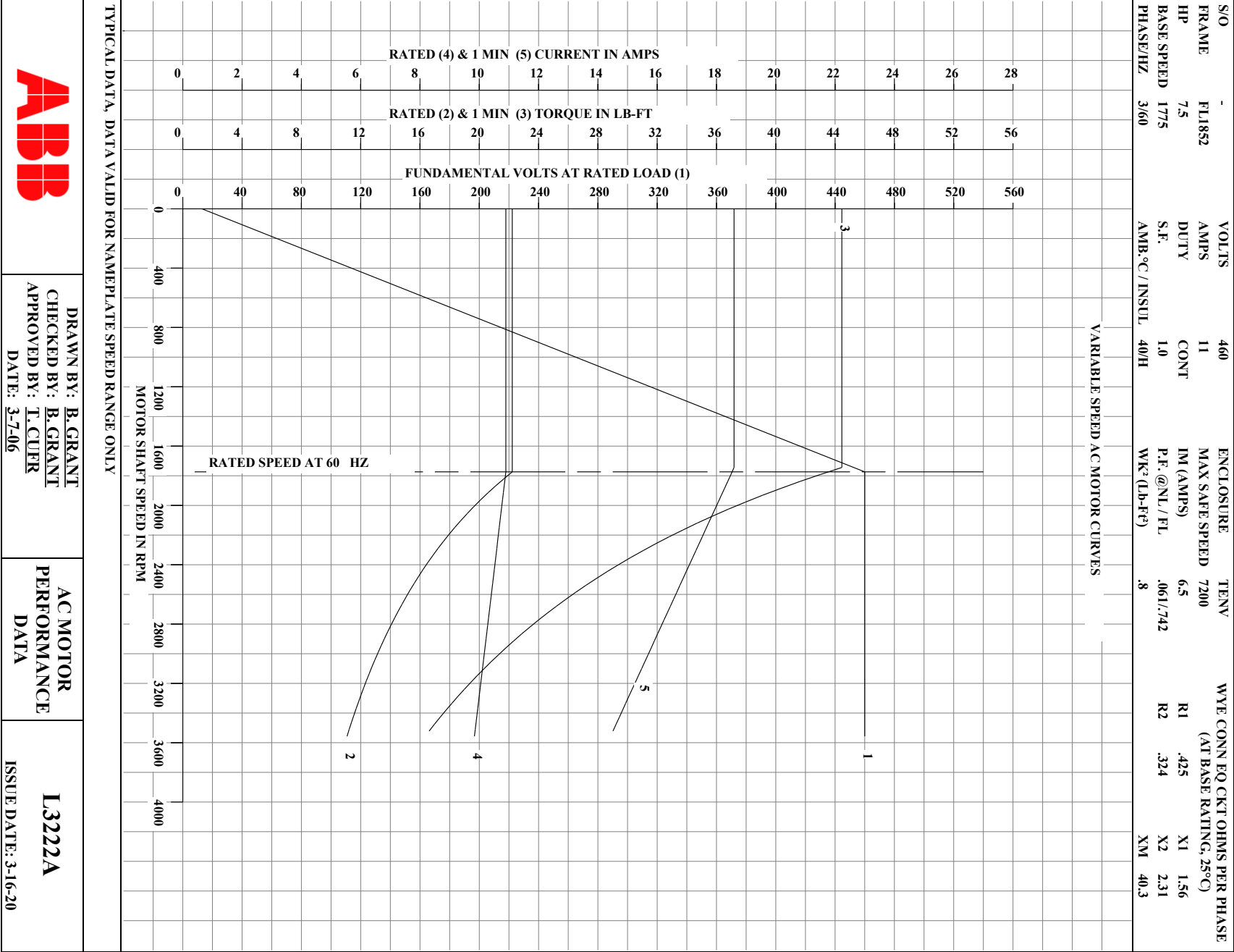
REMARKS:
TYPICAL DATA

	DRAWN BY: B. GRANT CHECKED BY: B. GRANT APPROVED BY: T. CUER DATE: 3-7-06	AC MOTOR PERFORMANCE DATA	L3222A ISSUE DATE 3-16-20
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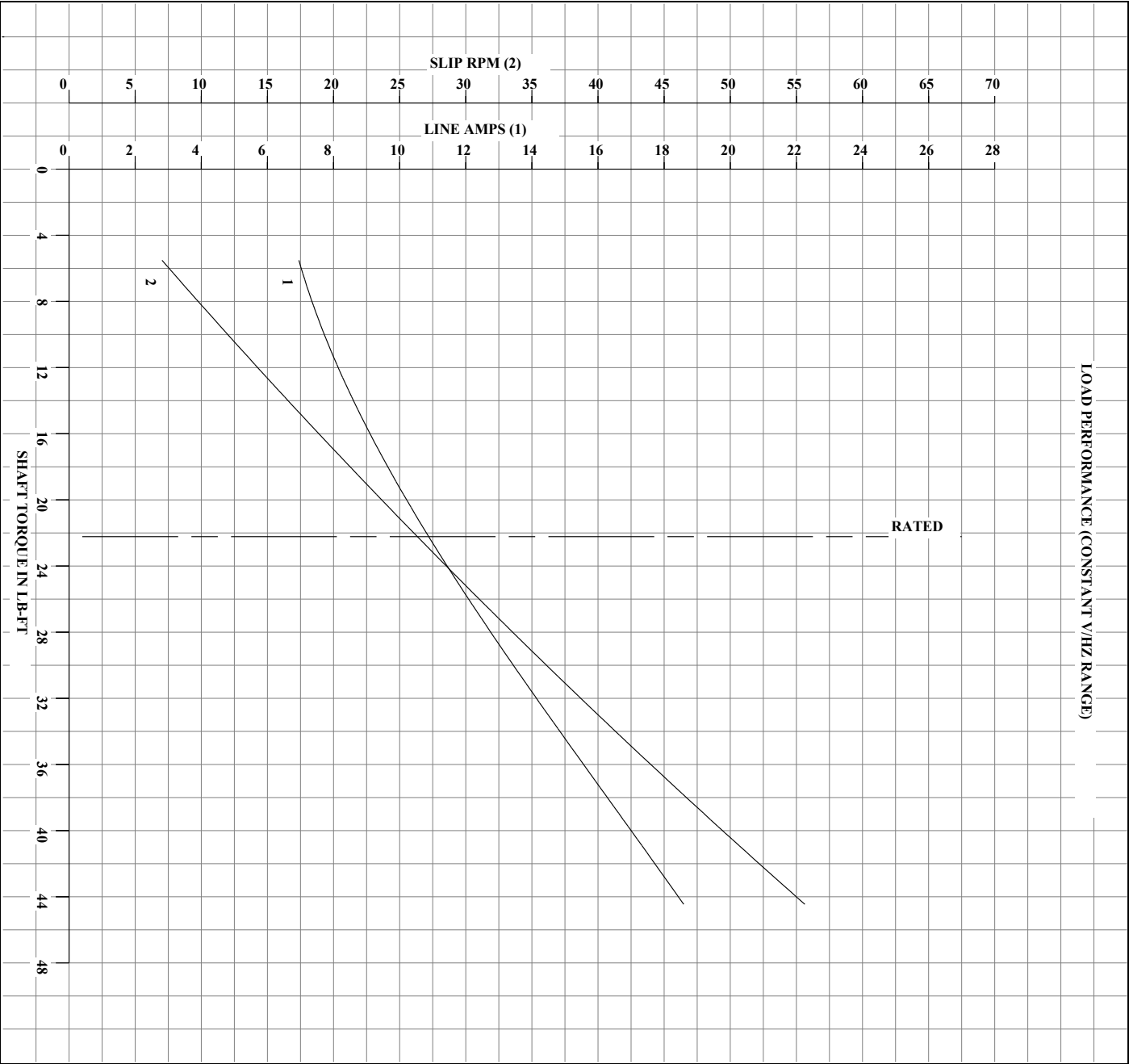
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S/O	-	VOLTS	460	ENCLOSURE	TENV	WYE CONN EQ CKT OHMS PER PHASE (AT BASE RATING, 25°C)
FRAME	FL1852	AMPS	11	MAX SAFE SPEED	7200	R1 .425 X1 1.56
HP	7.5	DUTY	CONT	IM (AMPS)	6.5	R2 .324 X2 2.31
BASE SPEED	1775	S.F.	1.0	P.F. @NL / FL	.061 / .742	X3 40.3
PHASE/HZ	3/60	AMB. °C / INSUL.	40/H	WK² (Lb-Ft²)	.8	



TYPICAL DATA. DATA VALID FOR NAMEPLATE SPEED RANGE ONLY

	DRAWN BY: B. GRANT CHECKED BY: B. GRANT APPROVED BY: T. CUER DATE: 3-7-06	AC MOTOR PERFORMANCE DATA	L3222A ISSUE DATE: 3-16-20
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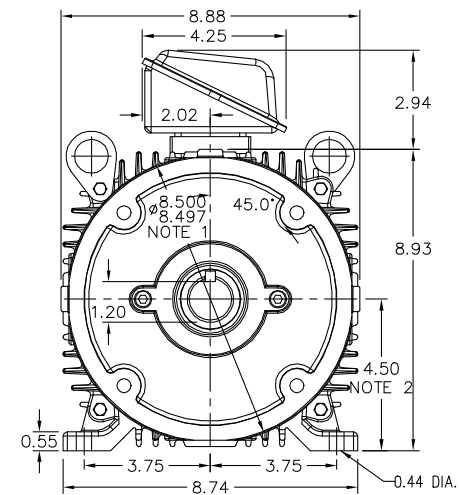
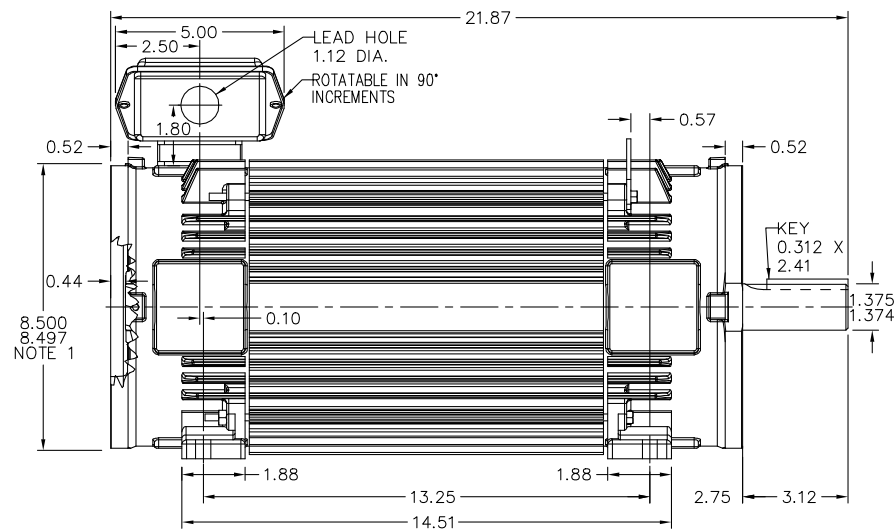
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RPM-AC FINNED FRAME VARIABLE SPEED ALTERNATING CURRENT MOTOR
Y ENCLOSED FL1852CZ COOLING: NO

ENCLOSURE: TOTALLY ENCLOSED
MOUNTING: FOOT / NEMA 210TC C-FACE
DRIVE METHOD: COUPLED OR BELTED

COOLING: NON-VENTILATED

ACCESSORIES: PROVISIONS FOR
TACHOMETER MOUNTING
ONLY WHEN SPECIFIED



NOTE 1: C-FACE & TACHOMETER MOUNTING
1/2-13 TAP, 1.00 DEEP, ON A 7.25 DIA. BOLT CIRCLE
FACE RUNOUT AND ECCENTRICITY 0.004 MAX. T.I.R.

NOTE 2: SHAFT HEIGHT WILL NOT BE EXCEEDED
SHIMS UP TO 0.03 INCHES IN THICKNESS ARE USUALLY
REQUIRED FOR COUPLED OR GREARED MACHINES

TERMINAL BOX MAY BE LOCATED F1 OR F2 IF SPECIFIED
40 AMP STEEL TERMINAL BOX SHOWN
REFER TO 616779-50 FOR SPECIFIED TERMINAL BOX DIMENSIONS
REFER TO 616779-55 FOR SPECIFIED TACHOMETER DIMENSIONS

MOTOR WEIGHT: 194 LBS. (MAY VARY 15%)
DIMENSIONS ARE IN INCHES SCALE: 1.00

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

REV. LTR: -			VERSION: 00	TDR: 000000481267
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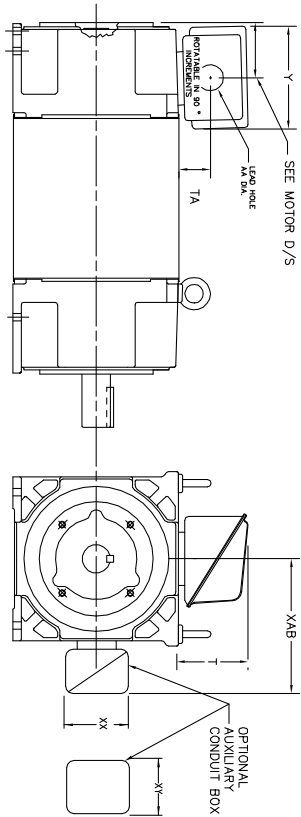
BALDOR • DODGE • RELIANCE®

DIM SH 210TC RPMAC TENV FL1852CZ FT MT PROV FOR TACH

SH 1 of 1

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	2.50/2.00
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	075454001A	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	075454001A	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	235	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	XX	XY	PART NUMBER	FRAME SIZE	YAB	XX	XY	PART NUMBER
FL210/RL210/FL112	7.38	4.25	4.25	602007-26-A	FL210/RL210/FL112	10.88	8.00	8.00	706310-3-B
FL250/RL250/FL160	8.44	4.25	4.25	602007-26-A	FL250/RL250/FL160	11.88	8.00	8.00	706310-3-B
FL280/RL280/FL200/FL180	9.12	4.25	4.25	602007-26-A	FL280/RL280/FL200/FL180	12.62	8.00	8.00	706310-3-B

(1) 1" MIN. CONDUIT.
(2) 1/2" MIN. PIPE TAP.
(3) CUSTOMER TO PROVIDE HOLE PER CONDUIT.
(4) 2" DIA. DIA. OR 1" DIA. DIA. DIA.
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.
DR 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.

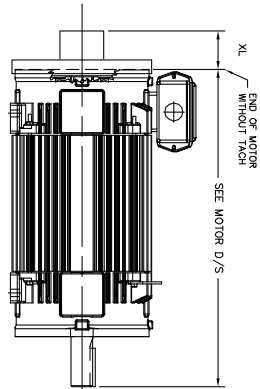
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REV. LTR: F	REVISED: 11:08:56 10/26/2021	BY: RCGRWM
FILE: \\RGG\00003\692		
MTL: -		

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

RPM AC TACHOMETER DIMENSIONS
NEMA FRAMES FL180 thru FL440 and IEC FRAMES FDL112 thru FDL280
DIMENSIONS ARE IN INCHES(mm)

616779-055

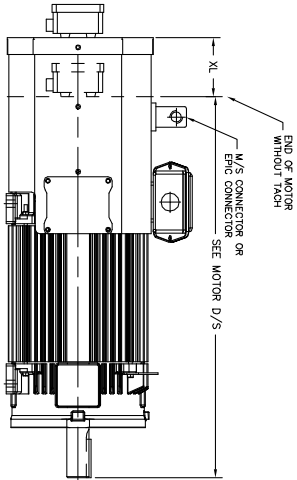
DPV, DPSV, TEPV, TESV, TENV & TEO-PB
IC06, IC17, IC37, IC410, & IC416-PB



* THIS DIMENSION INCLUDES COVER FOR X/Y MOTOR.

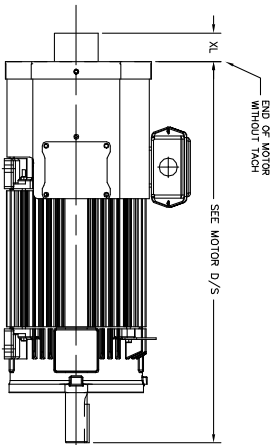
TACH MODEL	XL Inches(mm)	LBS.
BEL DR DYNAPAR HS35	2.88 (74)	5
DYNAPAR H20	7.50 (191) MAX	10
NORHSTAR HS35M	3.31 (84)	10
NORHSTAR ST67	2.88 (74)	5
DYNAPAR HS6	10.56 (268)	40
AVTRON M3 DR M4	3.62 (92)	10
TAMAGAMA TS5013(XT)	6.00 (152)	10
NORHSTAR ST56	2.88 (74)	5
NORHSTAR ST85	2.00 (51)	5
BEL T820	10.19 (259)	15
TAMAGAMA TS2151	6.64 (167)	15
BEL T825	7.50 (191)	15
DYNAPAR HS20	2.00 (50.8)	5
DYNAPAR X25	12.88 (327)	10
STEGMANN SRM25	7.25 (184.4)	10
NORHSTAR HS025	3.00 (76.2)	10
HEIDENHAIN EDW425	2.5 (63.5)	5
AVTRON HS35M	4.19 (106.4)	5
HEIDENHAIN ERN480	5.00 (76.2)	5
DYNAPAR H025	7.00 (177.8)	10
DYNAPAR H02	3.62 (92.1)	5
AVTRON M25	2.54 (64.5)	9
AVTRON AV850	2.54 (64.5)	9
AVTRON AV56	4.50 (115)	15
HS025	3.30 (84)	5
NORHSTAR R18	3.25 (83)	15
DYNAPAR H0625	5.88 (150)	10
AVTRON AA485	9.50 (241)	18
AVTRON AV32	1.93 (49)	7
DYNAPAR RH25	3.80 (97)	1.6
AVTRON AV85	2.40 (61.5)	3

TEAO-BC, IC416-BC
EXCLUDES NEMA FRAMES FL320 THRU FL440
AND
IEC FRAMES FDL200 THRU FDL280



TACH MODEL	XL Inches(mm)	LBS.
BEL DR DYNAPAR HS35	4.50 (115)	10
DYNAPAR H20	4.50 (115)	15
AVTRON M3 DR M4	4.50 (115)	10
NORHSTAR HS35M	4.50 (115)	15
NORHSTAR ST56	4.50 (115)	10
NORHSTAR ST67	4.50 (115)	10
NORHSTAR S185	4.50 (115)	5
NORHSTAR S185	4.50 (115)	10
TAMAGAMA TS5008, TS5013	4.50 (115)	10
DYNAPAR HS20	4.50 (115)	15
STEGMANN SRM25	4.50 (115)	10
STEGMANN SRM50	4.50 (115)	3
HE20 & HE56	4.50 (115)	15
AVTRON HS35M	4.50 (115)	10
AVTRON AV85	4.50 (115)	10
AVTRON M56	4.50 (115)	5
AVTRON AV67	4.50 (115)	10
HS038	4.50 (115)	5
TS2014	4.50 (115)	10
AVTRON HS45	4.50 (115)	15
DYNAPAR HSD38M	4.50 (115)	15
AVTRON AV32	4.50 (115)	7
AVTRON AV850	4.50 (115)	9

TEFC, IC411



550-667619

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

REV. DESC: ADD AV85	VERSION: 25	TDR: 000001111552
REV. LTR: AA	REVISED: 03:54:15 06/26/2019	BY: RGRWM
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MTL: -		

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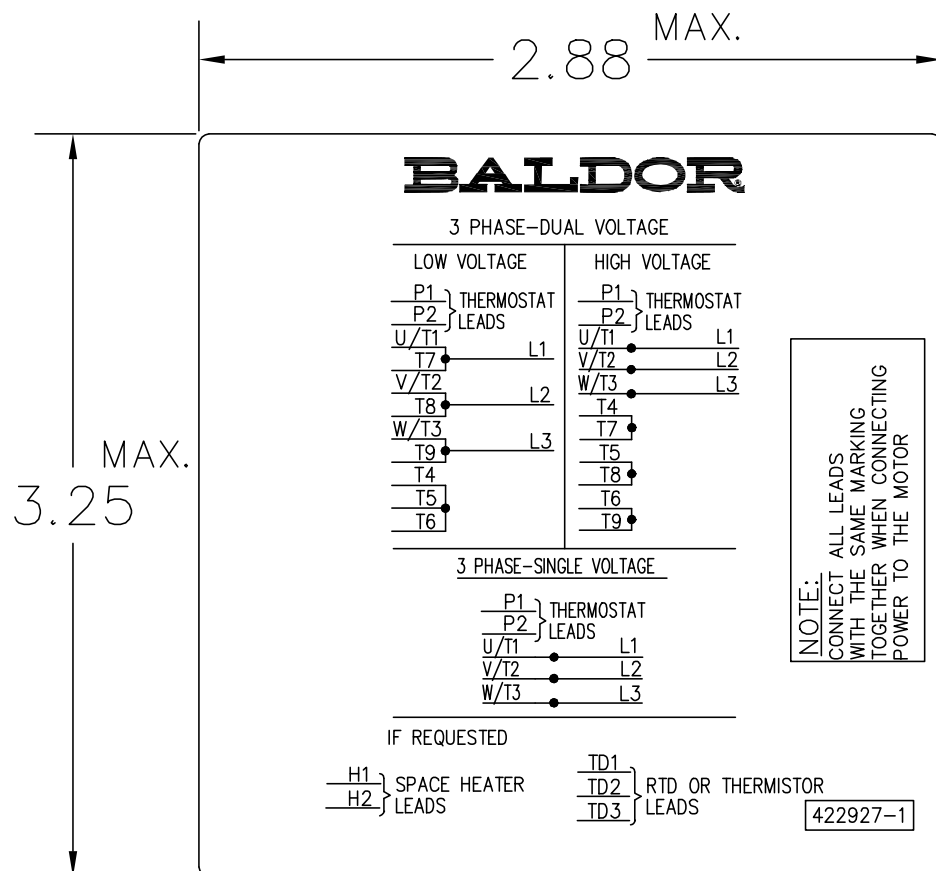
DIM SHT TACH DIM NEMA FL180 - FL440 IEC FDL112 - FDL280
SH 1 of 1

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.



NOTE:

NOTE.
CONNECT ALL LEADS
WITH THE SAME MARKING
TOGETHER WHEN CONNECTING
POWER TO THE MOTOR

422927-1

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