Customer information packet

ECS101T3K4EF4

4KW, 1500RPM, 3PH, 50HZ, D112, 3632B, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	D112
Frame Material	Steel
Frequency	50.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	4.000 KW @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1500 RPM @ 50 HZ
Voltage @ Frequency	380.0 V @ 50 HZ
Agency Approvals	BLUETOOTH
	CE
	CULUS
	WEEE
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	5
Current @ Voltage	6.800 A @ 380.0 V
Drip Cover	No Drip Cover
Duty Rating	S1
Efficiency @ 100% Load	91.6 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Frame Prefix	D
Heater Indicator	No Heater
High Voltage Full Load Amps	6.8 a
Insulation Class	F

Part Detail

Revision	H
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	36WGA0022
Layout	36LYT272
Eff. date	05-08-2024
CD Diagram	CD0006B03
Poles	04
Leads	3#12 19" LONG LEADS
Proprietary	False
Created date	05-18-2022

Inverter Code	Inverter Duty
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	IEC
Motor Type	3632B
Mounting Arrangement	F1
Number of Poles	4
Overall Length	16.34 IN
Power Factor	97
Product Family	General Purpose
Pulley Face Code	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	1.103 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Speed	1500 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP3978A01							
PART NO.	ECIN4A9P5						
U1	400	**PH**	3	**HZ**	50		
I1	8	**W/EXT. CHOKE**					6.8
SERIAL #							

NP3968B01A01									
CAT.NO.	ECS101T3K4EF4								
SPEC.	36-0000-3626					**YR**			
FRAME	D112S		**IP**	55		**WT.**	43		
KW	4	**HZ**	50		**PH**	3	**DUTY-IPM**		S1
INS CL	F		**CLASS RISE**		B		**AMB-C**		40
EFF. CL	IE5	**EFF**	91.6			**COS0**	97		
VOLTS	380		**FLA**	6.8					
1/MIN	1500				**1/MIN MAX**		3000		
BEMF (V)	210				**RS (OHMS)**		3.3		
LD (MH)	54					**LQ (MH)**	191		
VPWM	**CP =**	50			**TO**	100			
CT	5	**TO**	50	**VT**	1	**TO**	50		
MATCHED INV	ECIN4A9P5								
DE	6206		**ODE**	6205					
SERIAL #									

Volts	190/380	Max RPM	3000	Conn Diag.	CD0005A25	Leads	9
Amps	13.6/6.8	Max Amps		Cs Diagram	CS0576	BEMF	105/210
KW	4	VFD#	ACS380-040S-09			LD	13.5/54.0
RPM	1500	S.F.	1.00			LQ	47.8/191.0
Phase/Hz	3/50	Rating	40C AMB-S1			Rs	3.3231 Meas. L-L

60034-2-3 Motor Performance at Standardized Operating Points

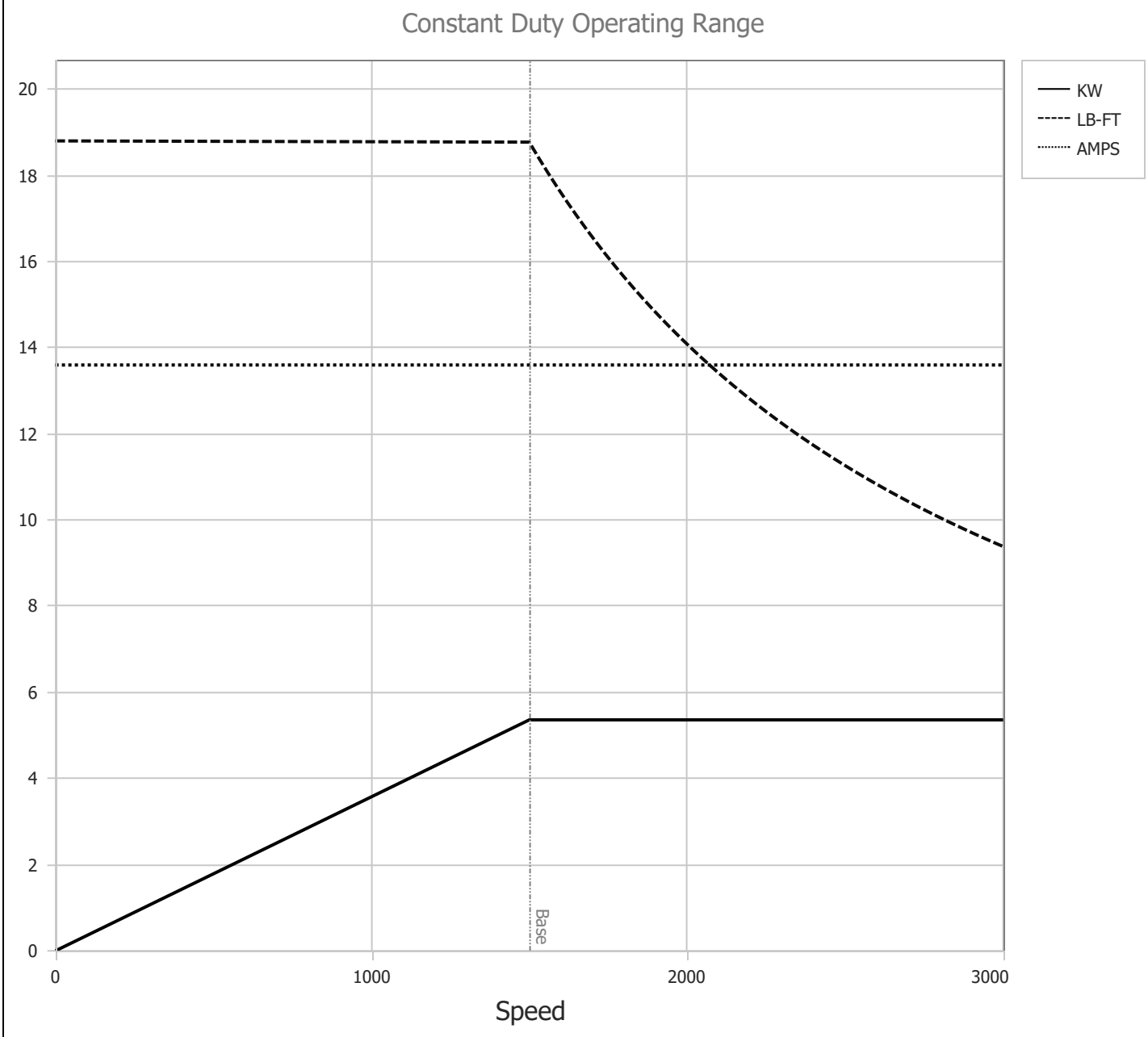
	RPM	% Speed	LB-FT	% Torque	KW	Efficiency	Loss (% FL)	Watts Loss (W)
P1	1350	90%	18.8	100%	4.8	90.4	9.48%	383
P2	750	50%	18.8	100%	2.7	86.5	7.72%	312
P3	375	25%	18.8	100%	1.3	78.3	6.87%	278
P4	1350	90%	9.4	50%	2.4	92.4	3.67%	149
P5	750	50%	9.4	50%	1.3	89.2	2.98%	121
P6	750	50%	4.7	25%	0.7	89.8	1.40%	57
P7	375	25%	4.7	25%	0.3	84.7	1.12%	45

61800-9-2 PDS Performance at Reference Operating Points

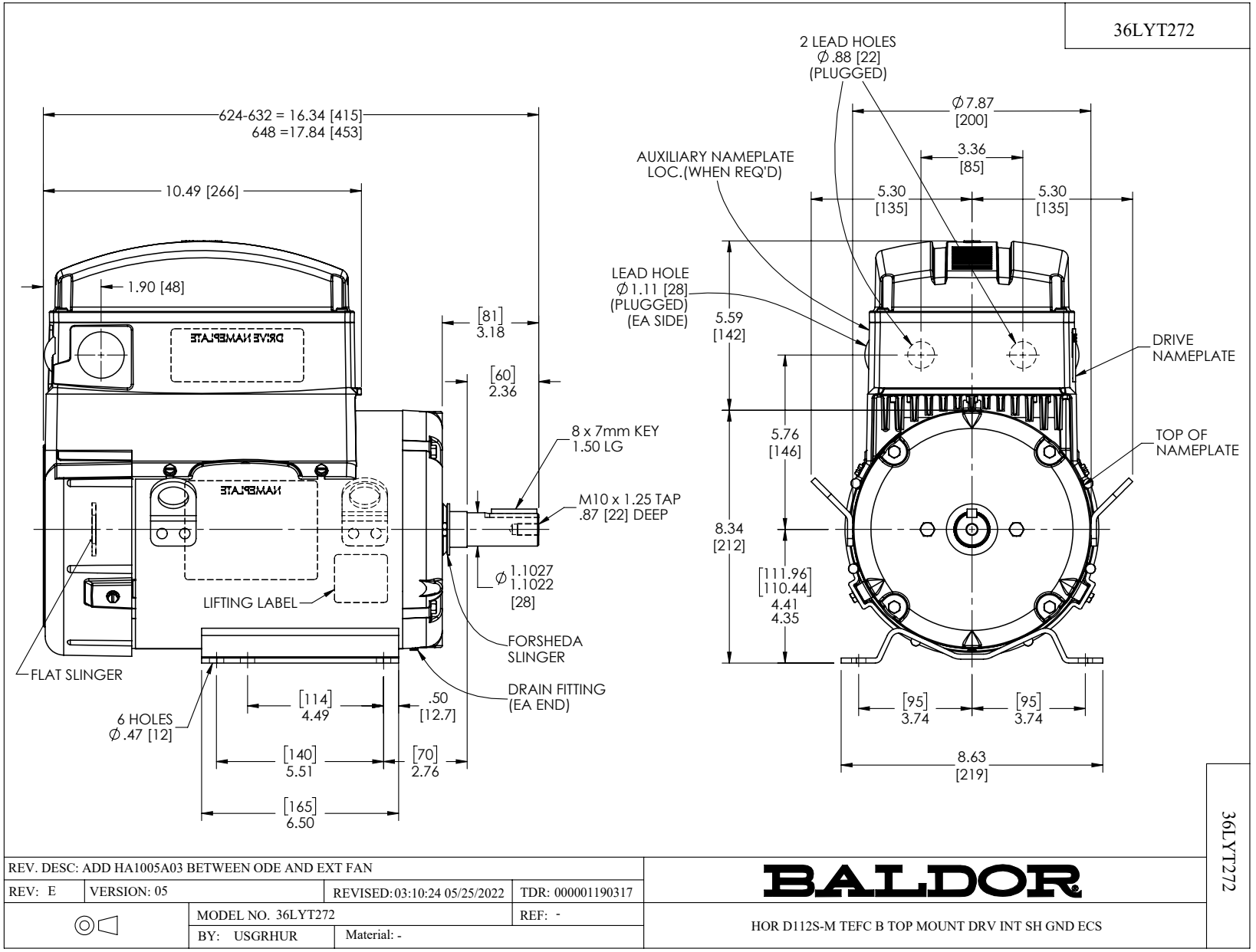
	RPM	% Speed	LB-FT	% Torque	KW	System Efficiency	Loss (% FL)	Watts Loss (W)
P1	1500	100%	18.8	100%	5.4	87.9	13.58%	549
P2	750	50%	18.8	100%	2.7	84.1	9.35%	378
P3	255	17%	18.8	100%	0.9	67.7	8.02%	324
P4	1500	100%	9.4	50%	2.7	91.1	4.85%	196
P5	750	50%	9.4	50%	1.3	86.1	3.99%	162
P6	255	17%	9.4	50%	0.5	71.8	3.30%	133
P7	750	50%	4.7	25%	0.7	85.2	2.14%	87
P8	255	17%	4.7	25%	0.2	71.1	1.71%	69

Points not taken in certified order.

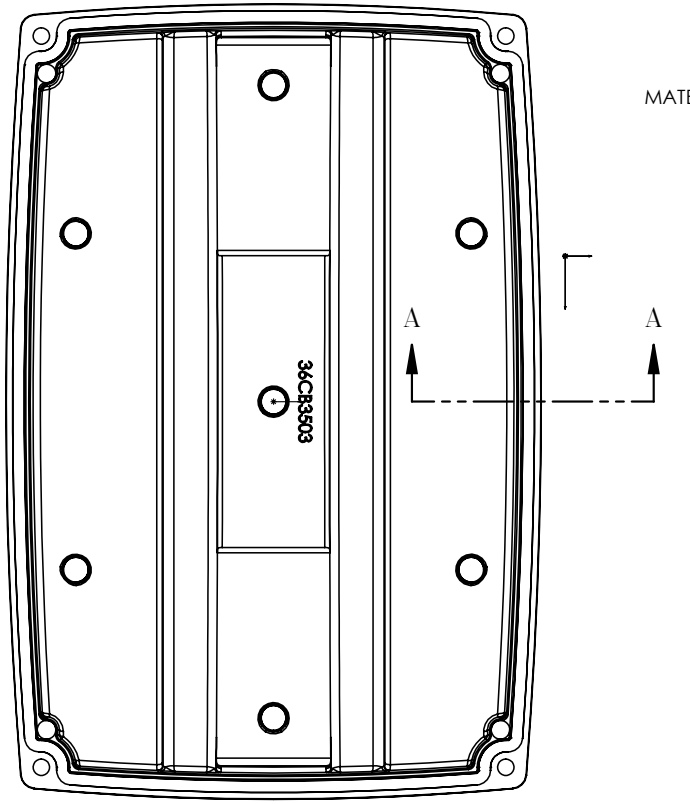
Volts	190/380	Max RPM	3000	Conn Diag.	CD0005A25	Leads	9
Amps	13.6/6.8	Max Amps		Cs Diagram	CS0576	BEMF	105/210
KW	4	VFD #	ACS380-040S-09			LD	13.5/54.0
RPM	1500	S.F.	1.00			LQ	47.8/191.0
Phase/Hz	3/50	Rating	40C AMB-S1			Rs	3.3231 Meas L-L



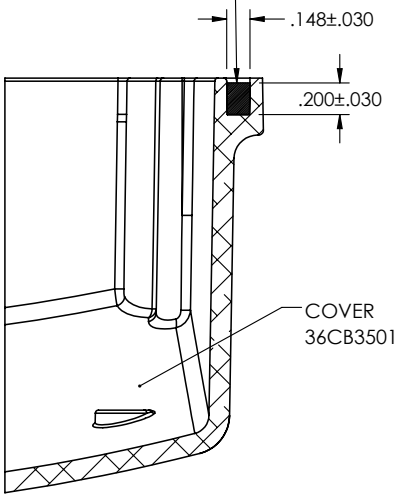
BALDOR • RELIANCE	DR By: R & D CK By: USGAHIL APP By: Date: 04/09/2025	**AC MOTOR PERFORMANCE CURVES**	**36WGA0020** 36-0000-3634 *Test - 112234*


36LYT272
624-632 = 16.34 [415]
648 =17.84 [453]
10.49 [266]
1.90 [48]
DRIVE NAMEPLATE
NAMEPLATE
[81]
3.18
[60]
2.36
8 x 7mm KEY
1.50 LG
M10 x 1.25 TAP
.87 [22] DEEP
Ø 1.1027
1.1022
[28]
LIFTING LABEL
FLAT SLINGER
FORSHEDA
SLINGER
DRAIN FITTING
(EA END)
6 HOLES
Ø .47 [12]
[114]
4.49
.50
[12.7]
[140]
5.51
[70]
2.76
[165]
6.50
2 LEAD HOLES
Ø .88 [22]
(PLUGGED)
Ø 7.87
[200]
AUXILIARY NAMEPLATE
LOC.(WHEN REQ'D)
3.36
[85]
5.30
[135]
5.30
[135]
LEAD HOLE
Ø 1.11 [28]
(PLUGGED)
(EA SIDE)
5.59
[142]
DRIVE
NAMEPLATE
TOP OF
NAMEPLATE
5.76
[146]
8.34
[212]
[111.96]
[110.44]
4.41
4.35
[95]
3.74
[95]
3.74
8.63
[219]
REV. DESC: ADD HA1005A03 BETWEEN ODE AND EXT FAN
REV: E
VERSION: 05
REVISED: 03:10:24 05/25/2022
TDR: 000001190317
MODEL NO. 36LYT272
REF: -
BY: USGRHUR
Material: -
BALDOR
HOR D112S-M TEFC B TOP MOUNT DRV INT SH GND ECS
36LYT272

36CB3503A00



MATERIAL: RAMPF, RAKU-PUR 32-3280-51L



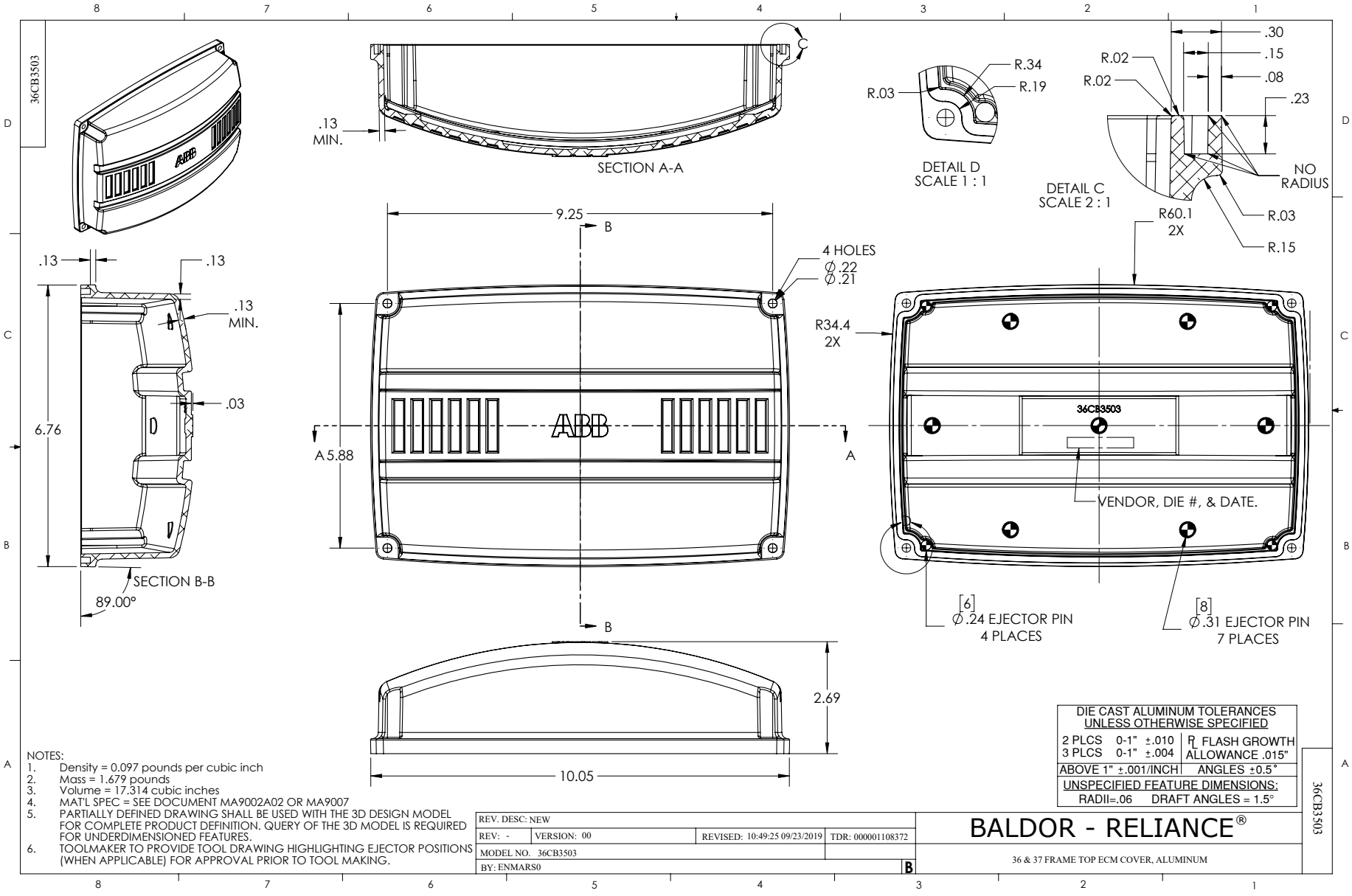
SECTION A–A

36CB3503A00

REV. DESC: NEW			
REV: -	VERSION: 00	REVISED: 09:13:16 01/15/2020	TDR: 000001129989
	MODEL NO. 36CB3503A00		REF: -
	BY: ENMARS0	Material: -	

BALDOR - RELIANCE®

36 & 37 FRAME TOP ECM ALUMINUM COVER WITH FOAM SEAL



NOTES:
1. Density = 0.097 pounds per cubic inch
2. Mass = 1.679 pounds
3. Volume = 17.314 cubic inches
4. MAT'L SPEC = SEE DOCUMENT MA9002A02 OR MA9007
5. PARTIALLY DEFINED DRAWING SHALL BE USED WITH THE 3D DESIGN MODEL FOR COMPLETE PRODUCT DEFINITION. QUERY OF THE 3D MODEL IS REQUIRED FOR UNDERDIMENSIONED FEATURES.
6. TOOLMAKER TO PROVIDE TOOL DRAWING HIGHLIGHTING EJECTOR POSITIONS (WHEN APPLICABLE) FOR APPROVAL PRIOR TO TOOL MAKING.

DIE CAST ALUMINUM TOLERANCES UNLESS OTHERWISE SPECIFIED	
2 PLCS 0-1" ±.010 3 PLCS 0-1" ±.004	R FLASH GROWTH ALLOWANCE .015"
ABOVE 1" ±.001/INCH	ANGLES ±0.5°
UNSPECIFIED FEATURE DIMENSIONS: RADII=.06 DRAFT ANGLES = 1.5°	

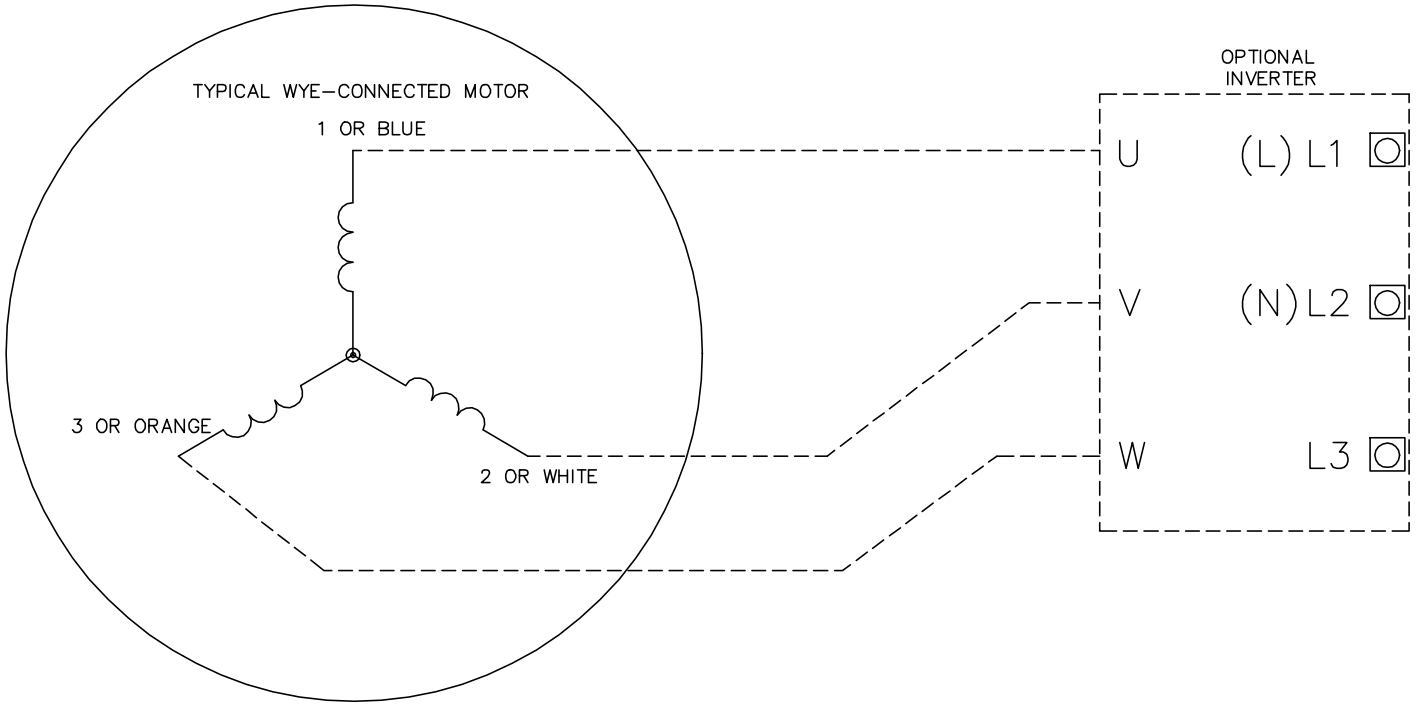
REV. DESC: NEW			
REV: -	VERSION: 00	REVISED: 10:49:25 09/23/2019	TDR: 000001108372
MODEL NO. 36CB3503			
BY: ENMARS0			B

BALDOR - RELIANCE®

36 & 37 FRAME TOP ECM COVER, ALUMINUM

36CB3503

CD0006B03



NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.

CD0006B03

REV. DESC: CHANGE LEAD COLORS TO BLUE WHITE ORANGE		
REV. LTR: A	VERSION: 01	TDR: 000001158598
FILE: \AAA\00252\917	REVISED: 11:01:03 01/19/2021	BY: ENMARSO
MTL: –		

BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE CONNECTED, ECS

SH 1 of 1