ABB BALDOR RELIANCE

Customer information packet

ECS101M0K5P5FF4

5.5KW, 1500RPM, 3PH, 50HZ, D132M, 3730B, TEFC
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	D132M
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	5.500 KW @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1500 RPM @ 50 HZ
Voltage @ Frequency	190.0 V @ 50 HZ
	380.0 V @ 50 HZ
Agency Approvals	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	10.500 A @ 380.0 V
	21.000 A @ 190.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	S1
Efficiency @ 100% Load	92.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Frame Prefix	D
Heater Indicator	No Heater

Part Detail

Revision	J
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	37WGA0016
Layout	37LY-000-407
Eff. date	02-12-2026
CD Diagram	CD0005A25
Poles	04
Leads	9#12
Proprietary	False
Created date	10-18-2022

High Voltage Full Load Amps	10.5 a
Insulation Class	F
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	3730B
Mounting Arrangement	B14
Number of Poles	4
Overall Length	17.62 IN
Power Factor	90
Product Family	General Purpose
Pulley Face Code	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	1.497 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

NP3968B01A01									
CAT.NO.	ECS101M0K5P5FF4								
SPEC.	37-0000-0483				**YR**				
FRAME	D132S		**IP**	55	**WT.**	57			
KW	5.5	**HZ**	50		**PH**	3	**DUTY-IPM**	S1	
INS CL	F		**CLASS RISE**	B		**AMB-C**	40		
EFF. CL	IE5	**EFF**	92.7		**COS0**	90			
VOLTS	190/380		**FLA**	21.85/10.92					
1/MIN	1500			**1/MIN MAX**	3000				
BEMF (V)	94/188			**RS (OHMS)**	0.35/1.39				
LD (MH)	6.99/28.09				**LQ (MH)**	20.19/80.59			
VPWM	**CP =**	50		**TO**	100				
CT	5	**TO**	50	**VT**	1	**TO**	50		
MATCHED INV									
DE	6208		**ODE**	6206					
SERIAL #									

Volts	190/380	Max RPM	3000	Conn Diag.	CD0005A25	Leads	9
Amps	21.85/10.92	Max Amps		Cs Diagram	CS0576	BEMF	0
KW	5.5	VFD#	ACS380-040S-12			LD	0
RPM	1500	S.F.	1.00			LQ	0
Phase/Hz	3/50	Rating	40C AMB-S1			Rs	1.3847 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%	25.8	100%	6.6	92.1	7.71%	424
P2	750	50%	25.8	100%	3.7	88.9	6.27%	345
P3	375	25%	25.8	100%	1.8	82.5	5.33%	293
P4	1350	90%	12.9	50%	3.3	92.8	3.51%	193
P5	750	50%	12.9	50%	1.8	90.6	2.60%	143
P6	750	50%	6.5	25%	0.9	90.3	1.35%	74
P7	375	25%	6.5	25%	0.5	86.9	0.94%	52

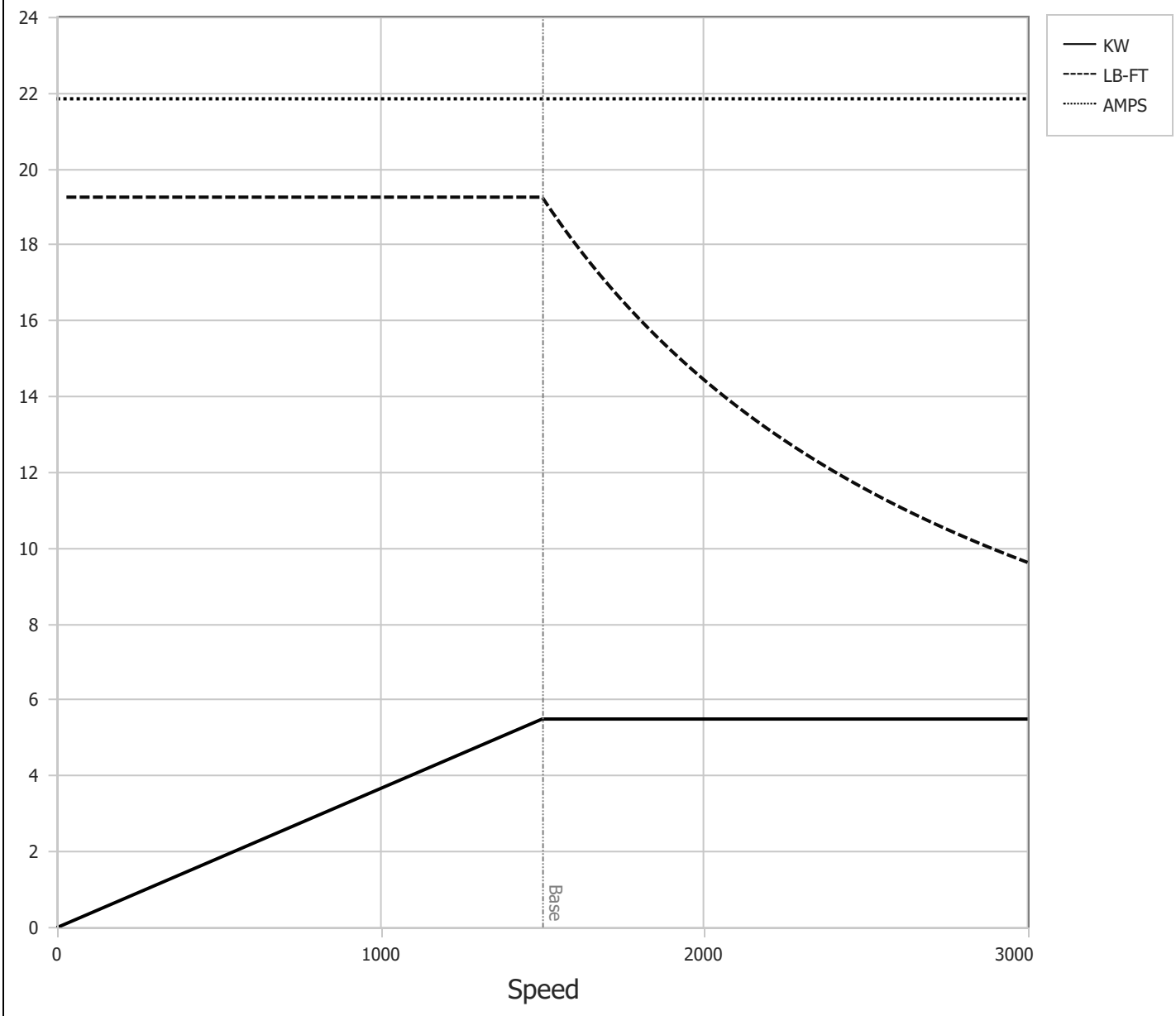
61800-9-2 PDS Performance at Reference Operating Points

	RPM	% Speed	LB-FT	% Torque	KW	System Efficiency	Loss (% FL)	Watts Loss (W)
P1	1500	100%	25.8	100%	7.4	91.0	9.91%	545
P2	750	50%	25.8	100%	3.7	85.9	8.19%	451
P3	255	17%	25.8	100%	1.3	71.6	6.75%	371
P4	1500	100%	12.9	50%	3.7	90.8	5.05%	278
P5	750	50%	12.9	50%	1.8	87.2	3.67%	202
P6	255	17%	12.9	50%	0.6	74.7	2.87%	158
P7	750	50%	6.5	25%	0.9	85.8	2.06%	114
P8	255	17%	6.5	25%	0.3	73.8	1.51%	83

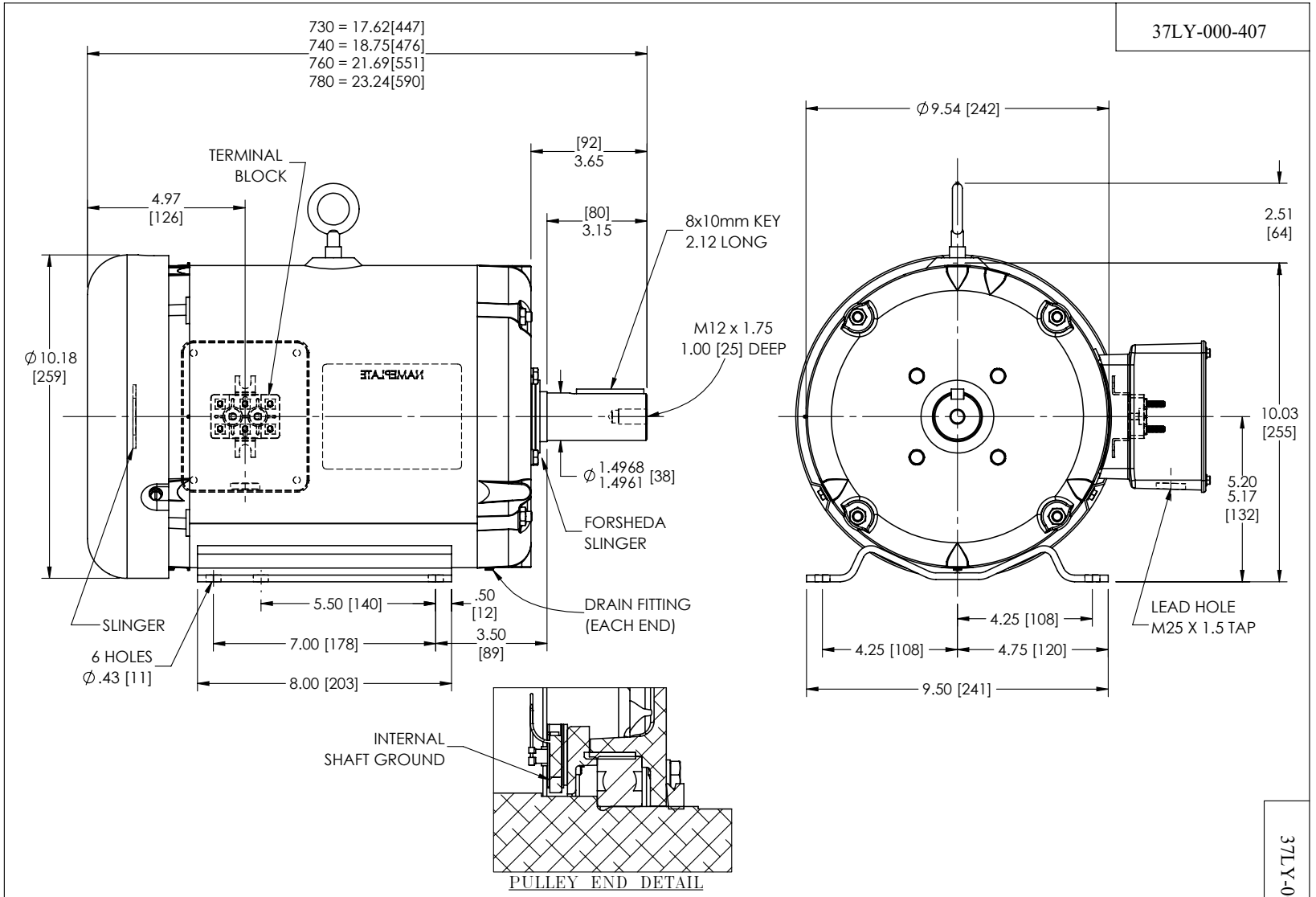
Points not taken in certified order.

BALDOR • RELIANCE	DR By: R & D CK By: USGAHIL APP By: USJAROB1 Date: 02/04/2025	**AC MOTOR PERFORMANCE CURVES**	**37WGA0016** 37-0000-0483 *Test - 111886*

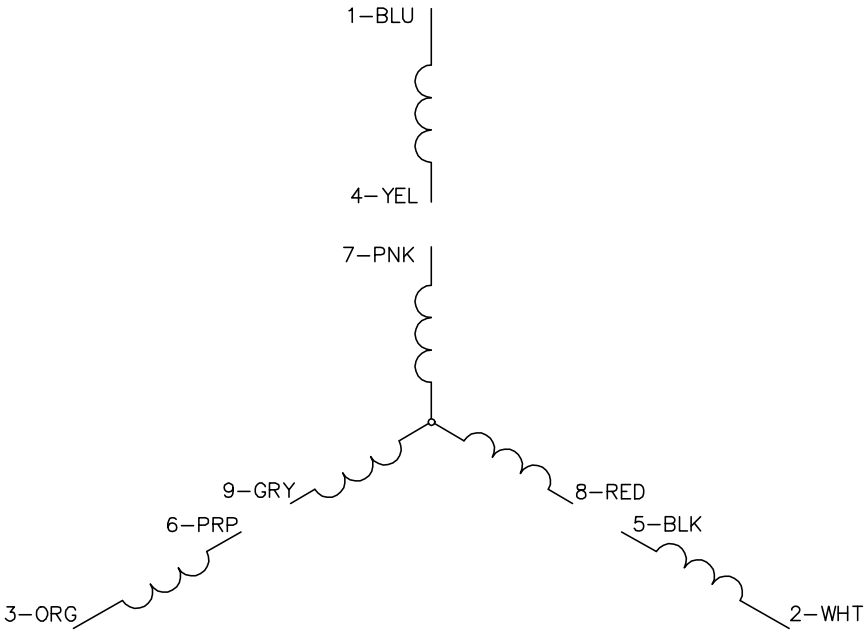
Volts	190/380	Max RPM	3000	Conn Diag.	CD0005A25	Leads	9
Amps	21.85/10.92	Max Amps		Cs Diagram	CS0576	BEMF	0
KW	5.5	VFD #	ACS380-040S-12			LD	0
RPM	1500	S.F.	1.00			LQ	0
Phase/Hz	3/50	Rating	40C AMB-S1			Rs	1.3847 Meas L-L

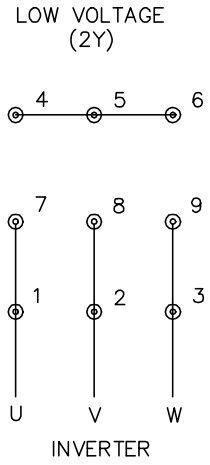


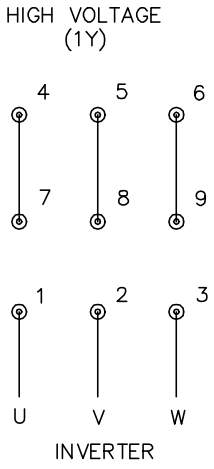
BALDOR • RELIANCE	DR By: R & D CK By: USGAHIL APP By: USJAROB1 Date: 02/04/2025	**AC MOTOR PERFORMANCE CURVES**	**37WGA0016** 37-0000-0483 *Test - 111886*


37LY-000-407
730 = 17.62[447]
740 = 18.75[476]
760 = 21.69[551]
780 = 23.24[590]
TERMINAL BLOCK
4.97 [126]
[92] 3.65
[80] 3.15
8x10mm KEY 2.12 LONG
M12 x 1.75 1.00 [25] DEEP
Ø10.18 [259]
Ø 1.4968 1.4961 [38]
FORSHEDA SLINGER
DRAIN FITTING (EACH END)
SLINGER
6 HOLES Ø.43 [11]
5.50 [140]
.50 [12]
7.00 [178]
3.50 [89]
8.00 [203]
INTERNAL SHAFT GROUND
PULLEY END DETAIL
Ø9.54 [242]
2.51 [64]
10.03 [255]
5.20 5.17 [132]
LEAD HOLE M25 X 1.5 TAP
4.25 [108]
4.25 [108]
4.75 [120]
9.50 [241]
REV. DESC: CHG B14 TO B3 IN DESCRIPTION
REV: A
VERSION: 01
REVISED: 11:30:46 01/18/2023
TDR: 000001202473
MODEL NO. 37LY-000-407
REF: -
BY: USGRHUR
BALDOR - RELIANCE®
HOR D132S-M TEFC B3, INT SH GND ECS
37LY-000-407

CD0005A25







NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
3. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0005A25

REV. DESC: NEW		
REV. LTR: –	VERSION: 00	TDR: 000001135746
FILE: \AAA\00253\082	REVISED: 01:10:57 03/30/2020	BY: ENMARSO
MTL: –		

BALDOR - RELIANCE®

3PH, DV, 9 LEADS, ECS

SH 1 of 1