ABB BALDOR RELIANCE

Customer information packet

ECS100T4H3DB4

3HP, 1800RPM, 3PH, 60HZ, 145TC, 3532B, TEFC, F1

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11/5/2026 10:09:30 AM

Part Detail

Revision	A
Type	AC
Mech. spec.	35E5291
Base	
Status	PRD/A
Elec. spec.	35WGG943
Layout	35LYE5291
Eff. date	09-10-2024
CD Diagram	CD0006B03
Poles	04
Leads	3#116 13" LONG LEADS Y
Proprietary	False
Created date	05-08-2024

Nameplate

NP3968A01A01									
CAT.NO.	ECS100T4H3DB4								
SPEC.	35E5291G943								
FRAME	145TC			**ENCL.**	TEFC		**IP**	54	
HP	3		40	**C AMB**		CONT			
NOM. EFF.	91	**PF**	97		**SF**	1.15			
VOLTS	460			**FLA**	3.5				
RPM	1800			**RPM-MAX**		4000			
HZ	60		**PH.**	3	**CLASS**	F			
BEMF (V)	267				**RS (OHMS)**	6.72			
LD (MH)	57.9				**LQ (MH)**	218			
VPWM	**CHP**	60	**TO**	133					
CT	6	**TO**	60	**VT**	6	**TO**	60		
MATCHED INV	ECI4A4P1								
DE	6205			**ODE**	6203				
SERIAL #									

NP3978A01					
PART NO.	ECI4A4P1				
U1	480	**PH**	3	**HZ**	60
I1	4.8	**W/EXT. CHOKE**			4.5
SERIAL #					

Volts	460	Max RPM	3000	Conn Diag.	CD0006B03	Leads	3
Amps	3.7	Max Amps		Cs Diagram	CS1126	BEMF	172
HP	3	VFD#	ECI4A4P1			LD	51
RPM	1800	S.F.	1.00			LQ	177
Phase/Hz	3/60	Rating	40C AMB CONT			Rs	3.8460 Meas. L-L

60034-2-3 Motor Performance at Standardized Operating Points

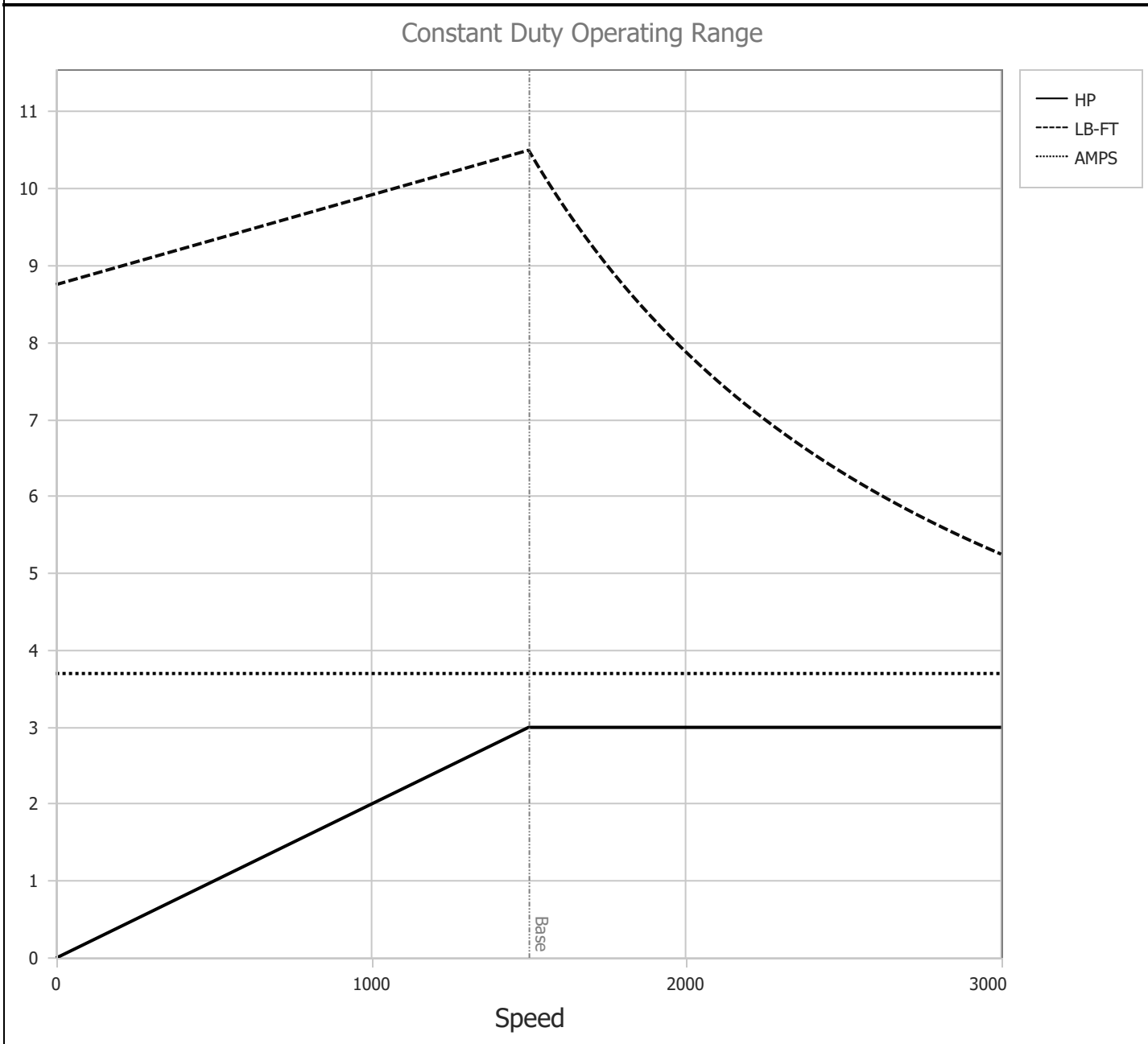
	RPM	% Speed	LB-FT	% Torque	HP	Efficiency	Loss (% FL)	Watts Loss (W)
P1	1627	90%	8.8	100%	2.7	91.3	8.59%	194
P2	904	50%	8.8	100%	1.5	89.3	6.00%	136
P3	452	25%	8.8	100%	0.8	83.4	4.94%	112
P4	1628	90%	4.4	50%	1.4	91.8	3.99%	90
P5	904	50%	4.4	50%	0.8	89.9	2.80%	63
P6	904	50%	2.2	25%	0.4	87.9	1.70%	39
P7	452	25%	2.2	25%	0.2	83.7	1.21%	27

61800-9-2 PDS Performance at Reference Operating Points

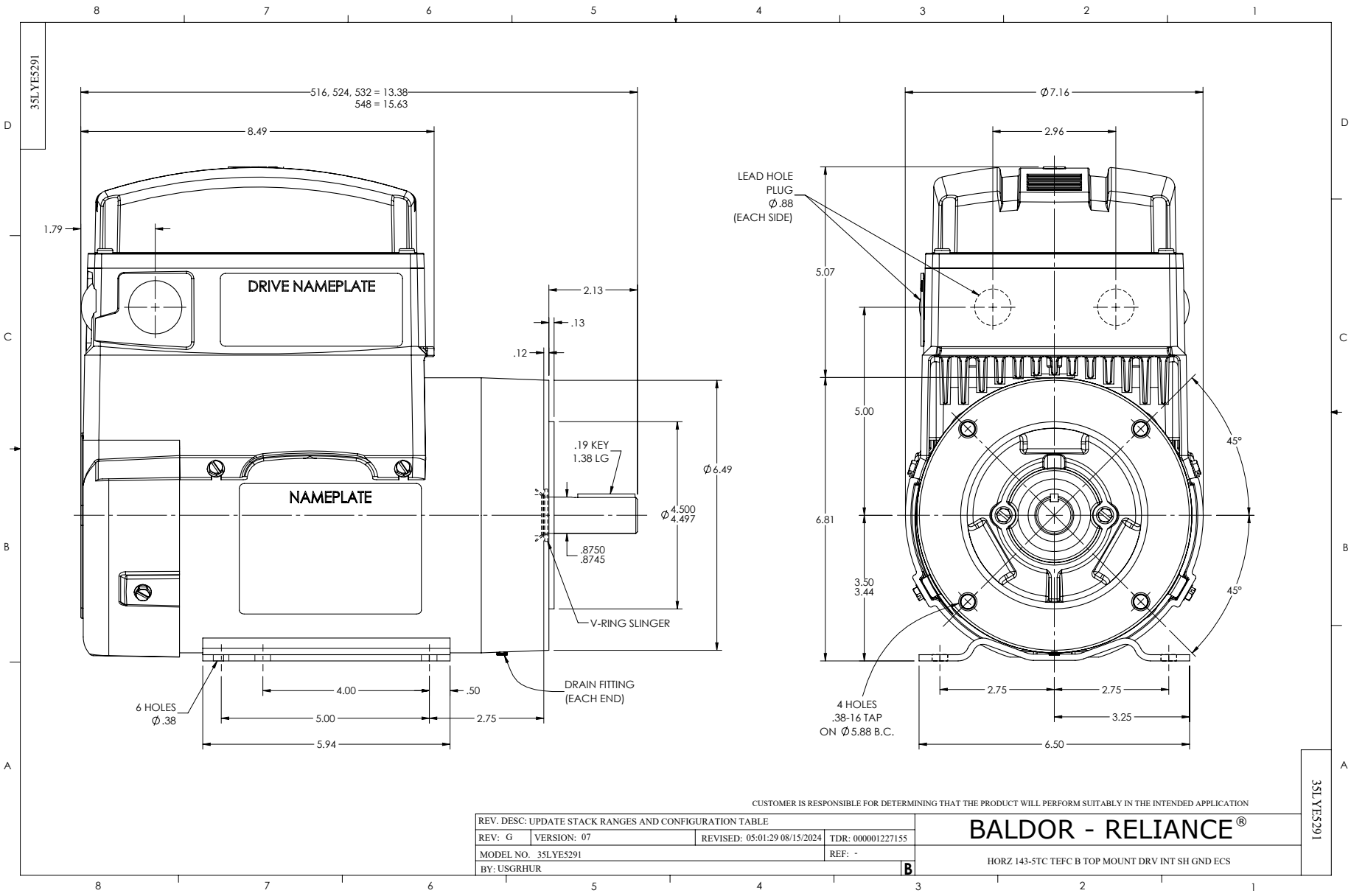
	RPM	% Speed	LB-FT	% Torque	HP	System Efficiency	Loss (% FL)	Watts Loss (W)
P1	1804	100%	8.8	100%	3.0	89.8	11.23%	254
P2	904	50%	8.8	100%	1.5	84.8	8.87%	201
P3	301	17%	8.8	100%	0.5	69.2	7.37%	167
P4	1809	100%	4.4	50%	1.5	88.5	6.44%	146
P5	904	50%	4.4	50%	0.8	84.1	4.70%	106
P6	301	17%	4.4	50%	0.3	68.2	3.86%	87
P7	904	50%	2.2	25%	0.4	80.2	3.06%	69
P8	301	17%	2.2	25%	0.1	62.6	2.46%	56

Points not taken in certified order.

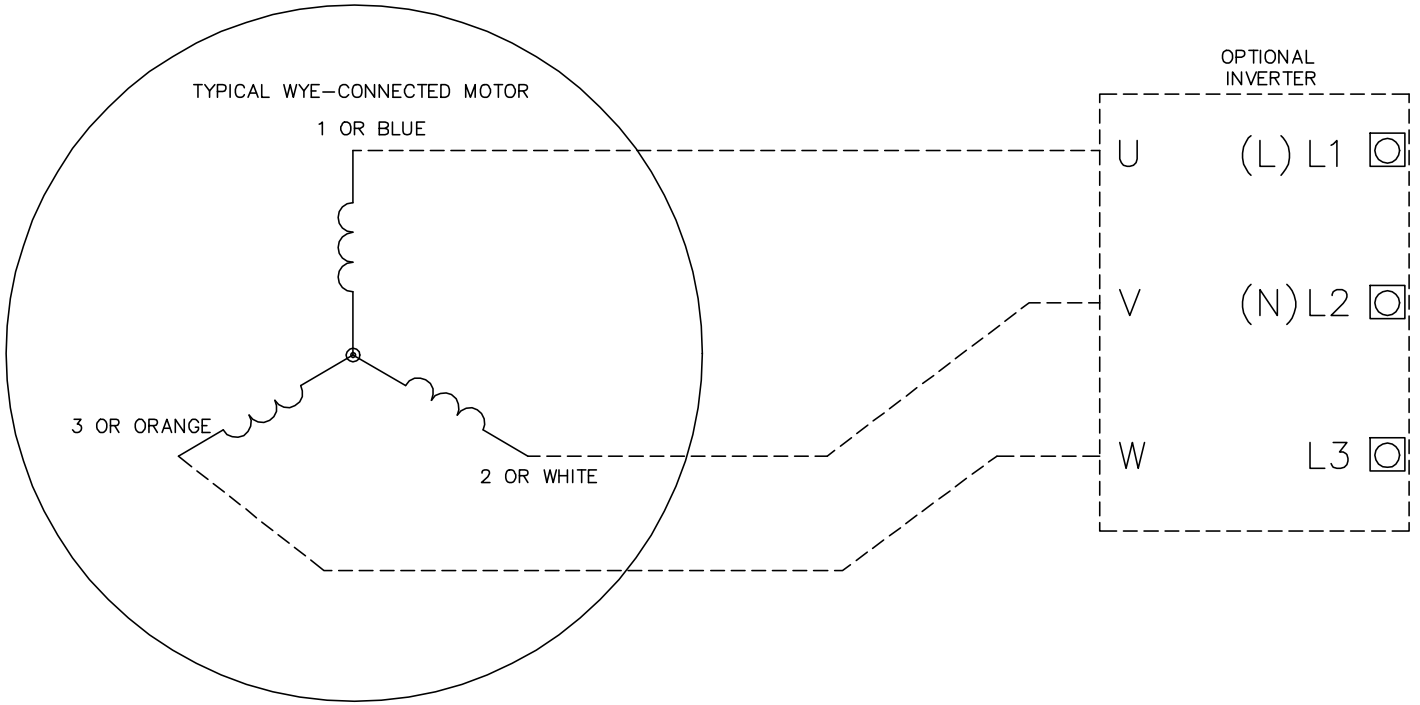
Volts	460	Max RPM	3000	Conn Diag.	CD0006B03	Leads	3
Amps	3.7	Max Amps		Cs Diagram	CS1126	BEMF	172
HP	3	VFD #	ECI4A4P1			LD	51
RPM	1800	S.F.	1.00			LQ	177
Phase/Hz	3/60	Rating	40C AMB CONT			Rs	3.8460 Meas L-L



BALDOR • RELIANCE	DR By: R & D CK By: USBIBAK APP By: USJAROB1 Date: 01/09/2025	**AC MOTOR PERFORMANCE CURVES**	**36WGA0025** 36-0000-3655 *Test - 111781*


35LYE5291
516, 524, 532 = 13.38
548 = 15.63
8.49
1.79
DRIVE NAMEPLATE
NAMEPLATE
2.13
.13
.12
.19 KEY
1.38 LG
Ø 6.49
Ø 4.500
4.497
.8750
.8745
V-RING SLINGER
DRAIN FITTING
(EACH END)
6 HOLES
Ø .38
4.00
.50
5.00
2.75
5.94
Ø 7.16
2.96
LEAD HOLE
PLUG
Ø .88
(EACH SIDE)
5.07
5.00
6.81
3.50
3.44
45°
45°
4 HOLES
.38-16 TAP
ON Ø 5.88 B.C.
2.75
2.75
3.25
6.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: UPDATE STACK RANGES AND CONFIGURATION TABLE
REV: G
VERSION: 07
REVISED: 05:01:29 08/15/2024
TDR: 000001227155
MODEL NO. 35LYE5291
REF: -
BY: USGRHUR
B
BALDOR - RELIANCE®
HORZ 143-5TC TEFC B TOP MOUNT DRV INT SH GND ECS
35LYE5291

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

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