ABB BALDOR RELIANCE

Customer information packet

ECS100T8H2DC4

2HP, 1800RPM, 3PH, 60HZ, 145TC, 3524B, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	145TC
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Brushless Wound Field PM Rotor
Output @ Frequency	2.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
Agency Approvals	BLUETOOTH CULUS WEEE
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	6
Current @ Voltage	4.800 A @ 230.0 V
Design Code	-
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.3 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	4.8 a
Insulation Class	F
Inverter Code	03

Part Detail

Revision	C
Type	AC
Mech. spec.	35E5353
Base	
Status	PRD/A
Elec. spec.	35WGG964
Layout	35LYE5353
Eff. date	09-19-2025
CD Diagram	CD0006B03
Poles	04
Leads	3#16 13" LONG LEADS Y
Proprietary	False
Created date	05-08-2024

KVA Code	-
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	3 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3524B
Mounting Arrangement	F1
Number of Poles	4
Overall Length	13.38 IN
Power Factor	93
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	0.875 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Speed	1800 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

NP3968A01A01									
CAT.NO.	ECS100T8H2DC4								
SPEC.	35E5353G964								
FRAME	145TC			**ENCL.**	TEFC		**IP**	54	
HP	2		40	**C AMB**		CONT			
NOM. EFF.	91.3	**PF**	93		**SF**	1			
VOLTS	230			**FLA**	4.8				
RPM	1800			**RPM-MAX**		4000			
HZ	60		**PH.**	3	**CLASS**	F			
BEMF (V)	148				**RS (OHMS)**	2.94			
LD (MH)	22.1				**LQ (MH)**	97.1			
VPWM	**CHP**	60	**TO**	133					
CT	6	**TO**	60	**VT**	6	**TO**	60		
MATCHED INV	ECI8A7P0								
DE	6205			**ODE**	6203				
SERIAL #									

NP3978A01						
PART NO.	ECI8A7P0					
U1	240	**PH**	1	**HZ**	60	
I1	12.5	**W/EXT. CHOKE**			10.2	
SERIAL #						

Volts	230	Max RPM	4000	Conn Diag.	CD0006B03	Leads	3
Amps	4.8	Max Amps		Cs Diagram	CS1127	BEMF	95
HP	2	VFD#	OPC-2-120070-1			LD	15.2
RPM	1800	S.F.	1.00			LQ	63.5
Phase/Hz	3/60	Rating	40C AMB-CONT			Rs	9.5595 Meas. L-L

60034-2-3 Motor Performance at Standardized Operating Points

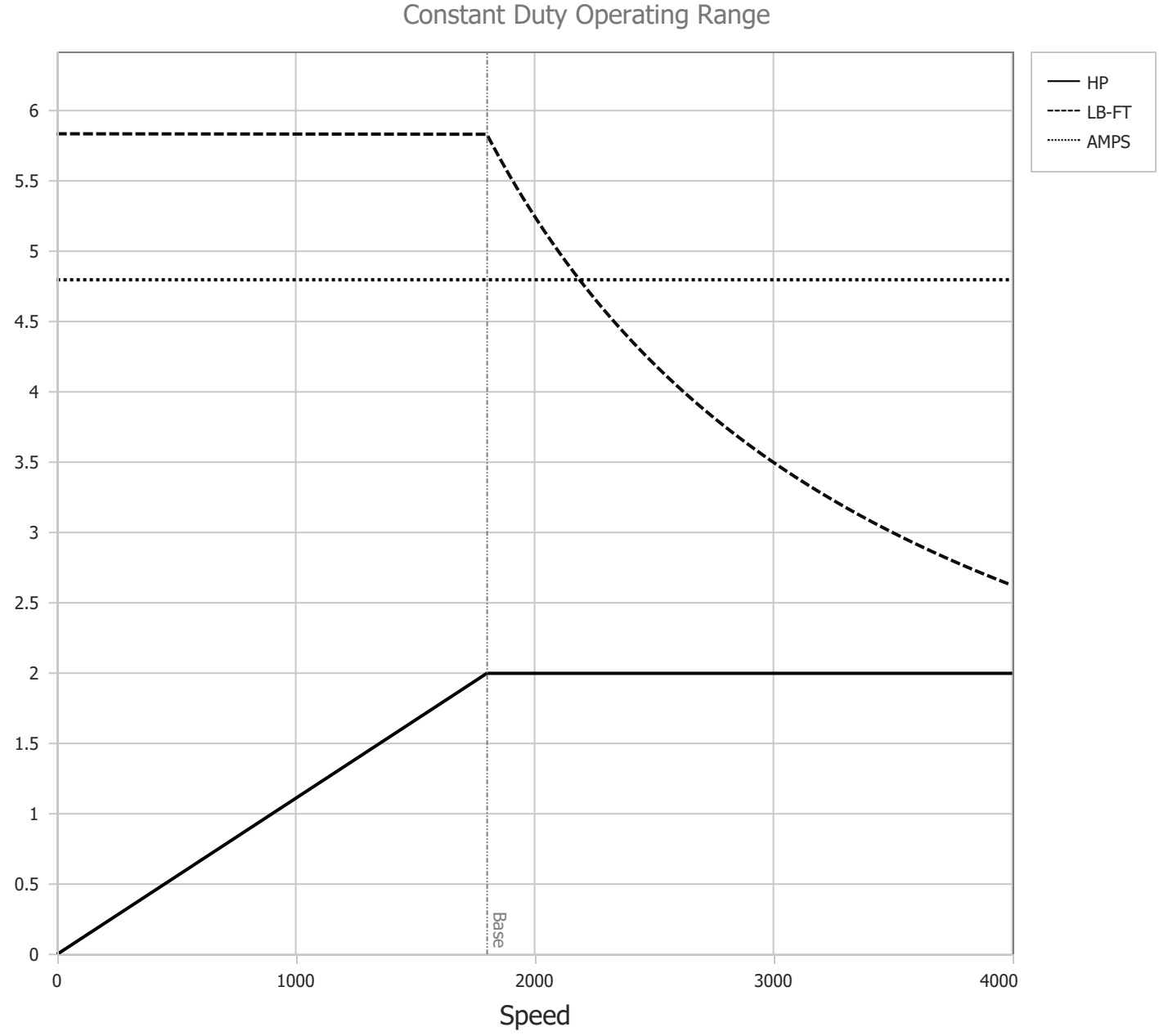
	RPM	% Speed	LB-FT	% Torque	HP	Efficiency	Loss (% FL)	Watts Loss (W)
P1	1619	90%	5.8	100%	1.8	84.2	16.73%	252
P2	906	50%	4.2	100%	0.7	62.7	21.27%	321
P3	440	25%	2.8	100%	0.2	36.4	20.56%	310
P4	1627	90%	2.9	50%	0.9	83.8	8.66%	131
P5	902	50%	2.9	50%	0.5	69.3	10.98%	166
P6	901	50%	1.5	25%	0.3	76.0	3.93%	59
P7	455	25%	1.5	25%	0.1	61.2	3.96%	60

61800-9-2 PDS Performance at Reference Operating Points

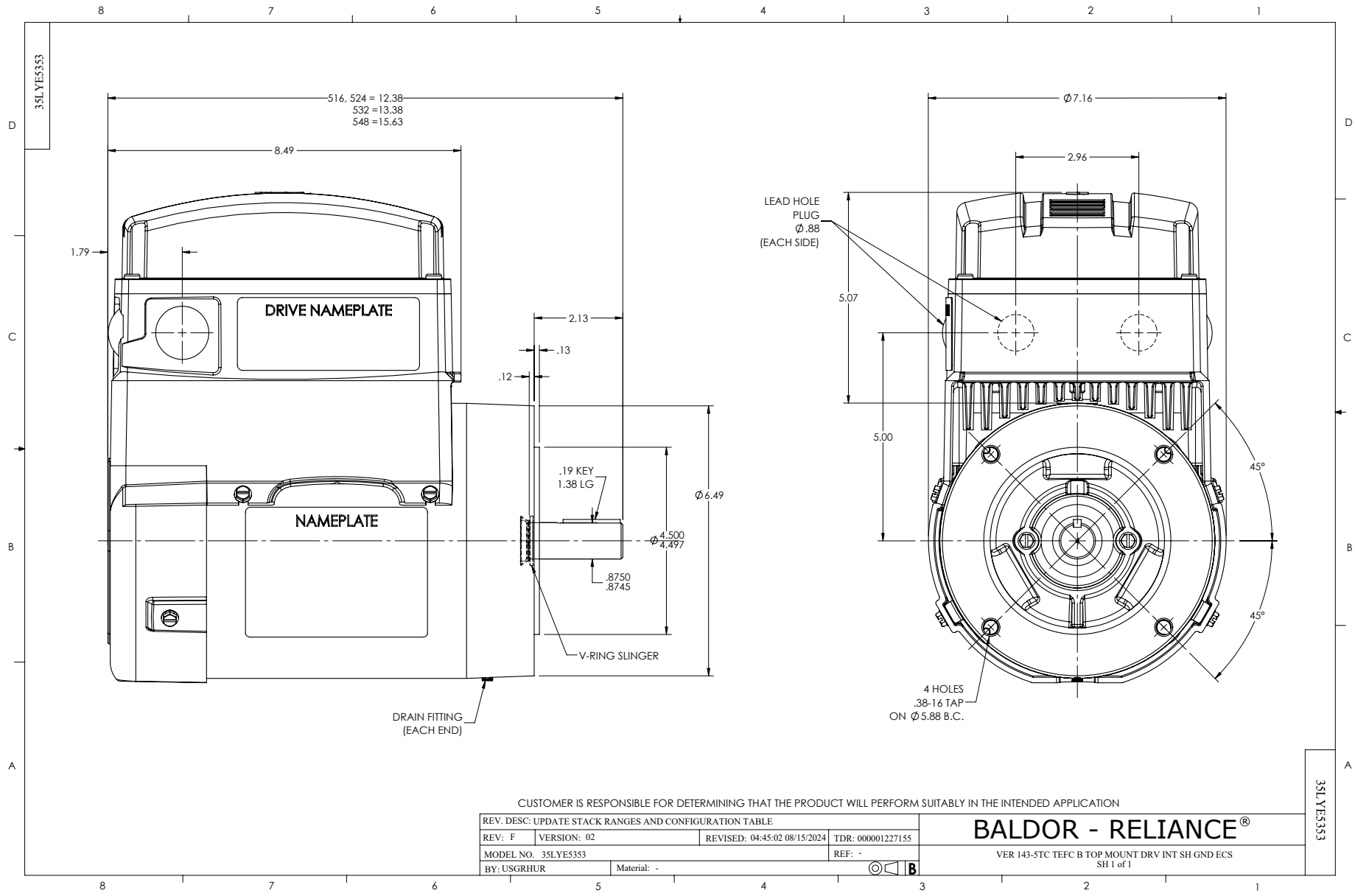
	RPM	% Speed	LB-FT	% Torque	HP	System Efficiency	Loss (% FL)	Watts Loss (W)
P1	1784	100%	5.8	100%	2.0	81.2	22.62%	341
P2	906	50%	4.2	100%	0.7	58.0	25.91%	391
P3	298	17%	2.2	100%	0.1	26.7	16.78%	253
P4	1790	100%	2.9	50%	1.0	79.0	13.05%	197
P5	902	50%	2.9	50%	0.5	63.9	14.02%	212
P6	299	17%	2.2	50%	0.1	26.7	16.62%	251
P7	901	50%	1.5	25%	0.3	68.7	5.66%	85
P8	311	17%	1.5	25%	0.1	40.6	6.26%	94

Points not taken in certified order.

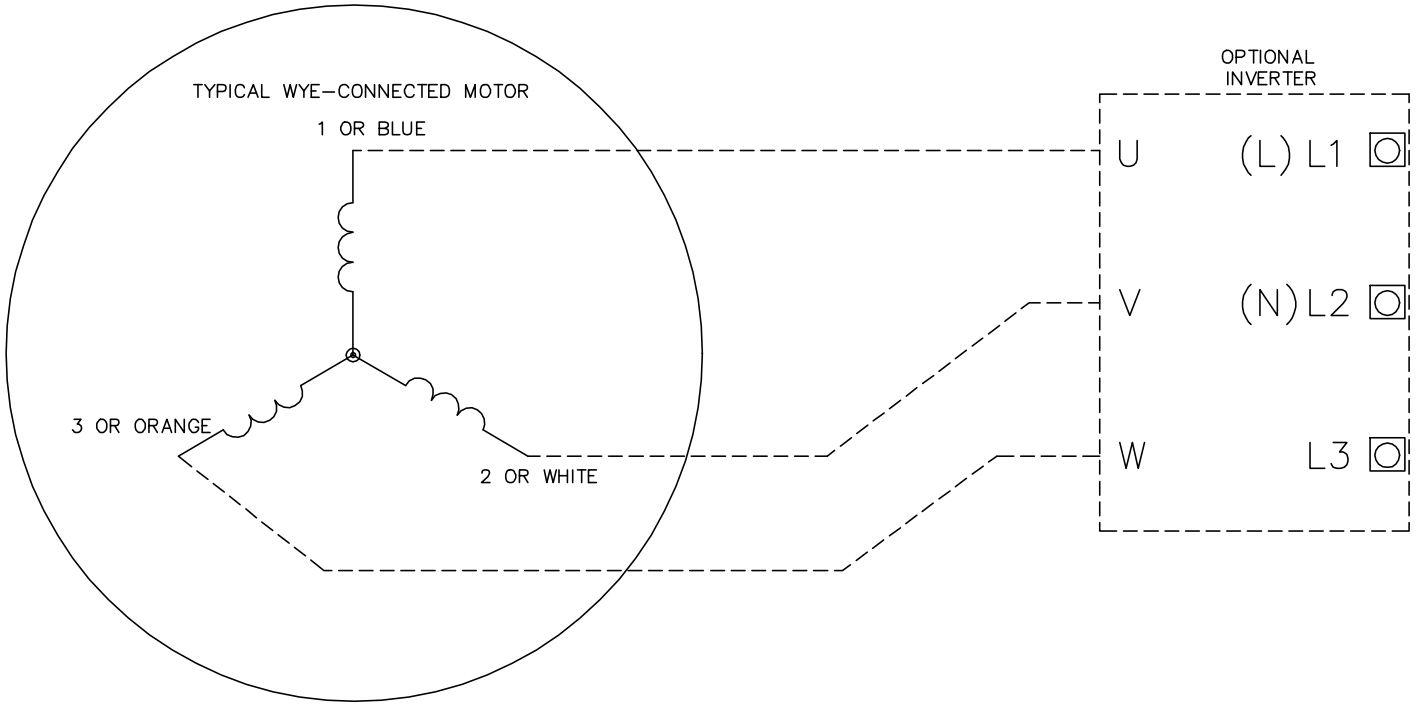
Volts	230	Max RPM	4000	Conn Diag.	CD0006B03	Leads	3
Amps	4.8	Max Amps		Cs Diagram	CS1127	BEMF	95
HP	2	VFD #	OPC-2-120070-1			LD	15.2
RPM	1800	S.F.	1.00			LQ	63.5
Phase/Hz	3/60	Rating	40C AMB-CONT			Rs	9.5595 Meas L-L



BALDOR • RELIANCE	DR By: R & D CK By: USTOSAN APP By: USJAROB1 Date: 01/29/2025	**AC MOTOR PERFORMANCE CURVES**	**35WGA0050** 35-0000-1619 *Test - 111860*


35LYE5353
516, 524 = 12.38
532 =13.38
548 =15.63
8.49
1.79
DRIVE NAMEPLATE
NAMEPLATE
2.13
.13
.12
.19 KEY
1.38 LG
Ø6.49
Ø4.500
4.497
.8750
.8745
V-RING SLINGER
DRAIN FITTING
(EACH END)
Ø7.16
2.96
LEAD HOLE
PLUG
Ø.88
(EACH SIDE)
5.07
5.00
45°
45°
4 HOLES
.38-16 TAP
ON Ø5.88 B.C.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: UPDATE STACK RANGES AND CONFIGURATION TABLE
REV: F
VERSION: 02
REVISED: 04:45:02 08/15/2024
TDR: 000001227155
MODEL NO. 35LYE5353
REF: -
BY: USGRHUR
Material: -
B
BALDOR - RELIANCE®
VER 143-5TC TEFC B TOP MOUNT DRV INT SH GND ECS
SH 1 of 1
35LYE5353

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