ABB BALDOR RELIANCE

Customer information packet

ECS100T2H2DB4

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	Rigid
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	90.4 %
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

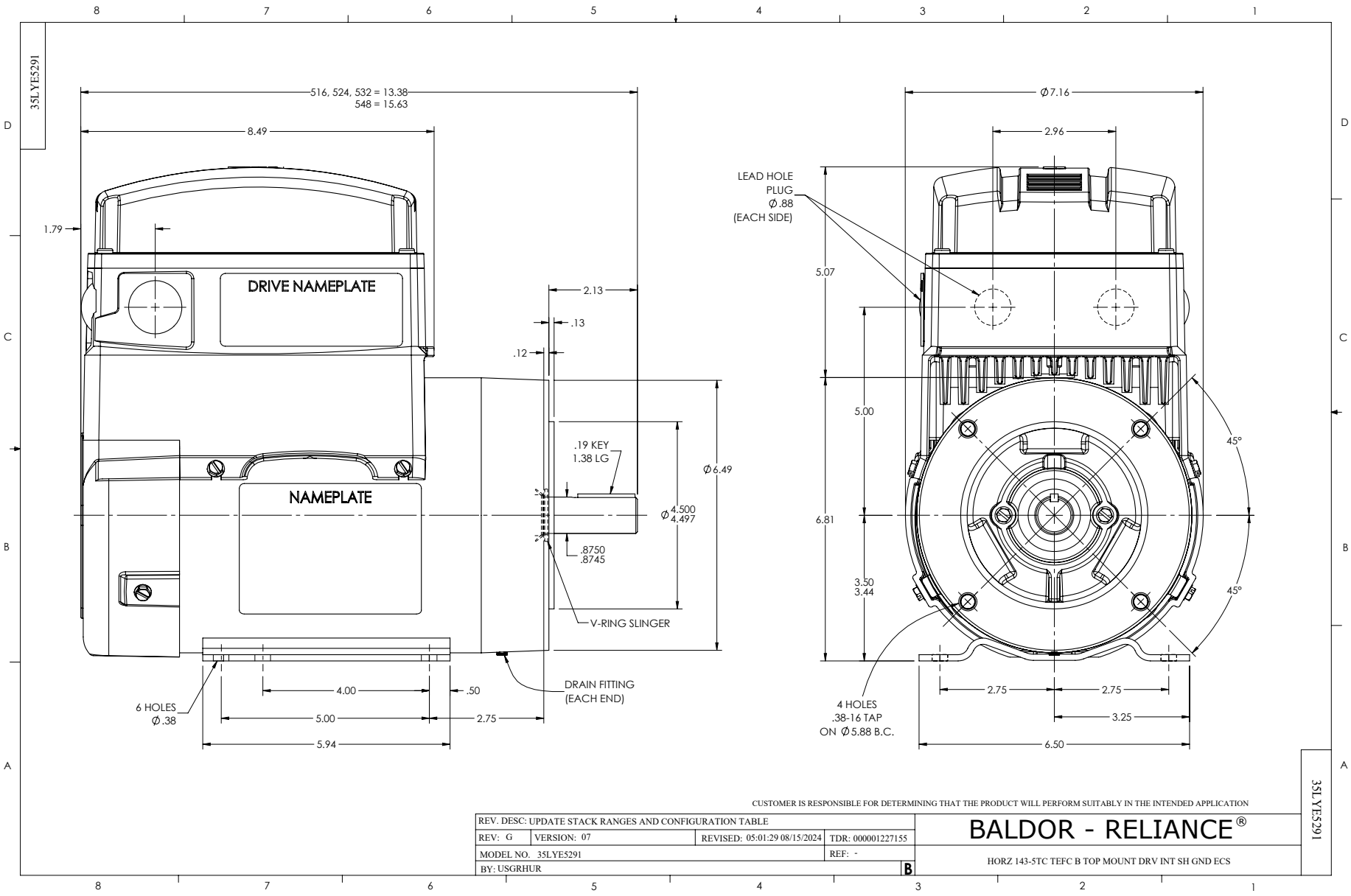
Revision	B
Type	AC
Mech. spec.	35E5291
Base	
Status	PRD/A
Elec. spec.	35WGG964
Layout	35LYE5291
Eff. date	09-10-2024
CD Diagram	CD0006B03
Poles	04
Leads	3#16 13" LONG LEADS Y
Proprietary	False
Created date	05-08-2024

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

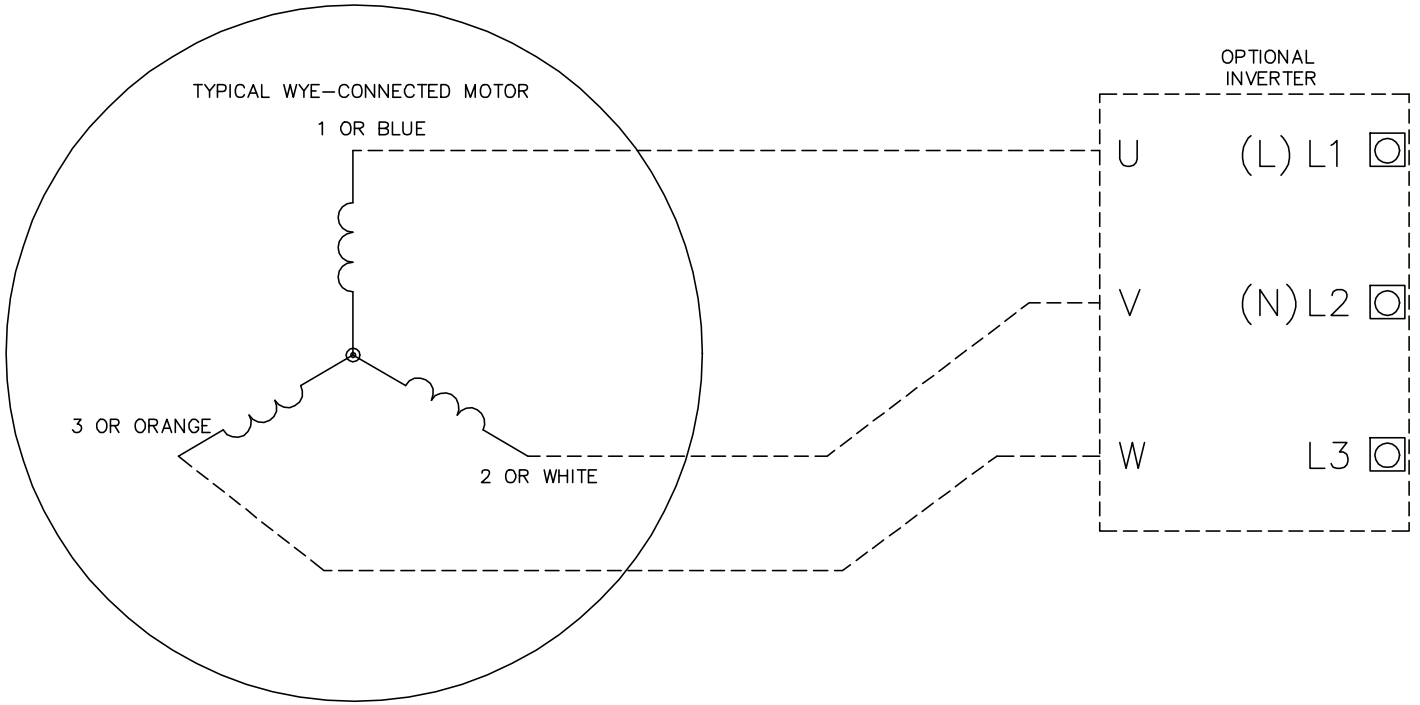
Nameplate

NP3968A01A01									
CAT.NO.	ECS100T2H2DB4								
SPEC.	35E5291G964								
FRAME	145TC			**ENCL.**	TEFC		**IP**	54	
HP	2		40	**C AMB**		CONT			
NOM. EFF.	91.3	**PF**	93		**SF**	1.5			
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	ECI2A7P0								
DE	6205			**ODE**	6203				
SERIAL #									

NP3978A01						
PART NO.	ECI2A7P0					
U1	240	**PH**	3	**HZ**	60	
I1	6.2	**W/EXT. CHOKE**				5.9
SERIAL #						


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

SH 1 of 1