ABB BALDOR RELIANCE

Customer information packet

16E315W353G1

100HP, 3570RPM, 3PH, 60HZ, 405TSC, 1668M, TEFC
Class -
Division - Not Applicable

Copyright © All product information within this document is subject to ABB Motors and Mechanical Inc. copyright © protection, unless otherwise noted.
11/20/2026 4:25:24 AM

Specifications

Enclosure	TEFC
Frame	405TSC
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	100.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	380.0 V @ 60 HZ
Agency Approvals	CSA
	CSA EEV
	UR
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
Current @ Voltage	132.000 A @ 380.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	132.0 a
Insulation Class	F
Inverter Code	Inverter Ready

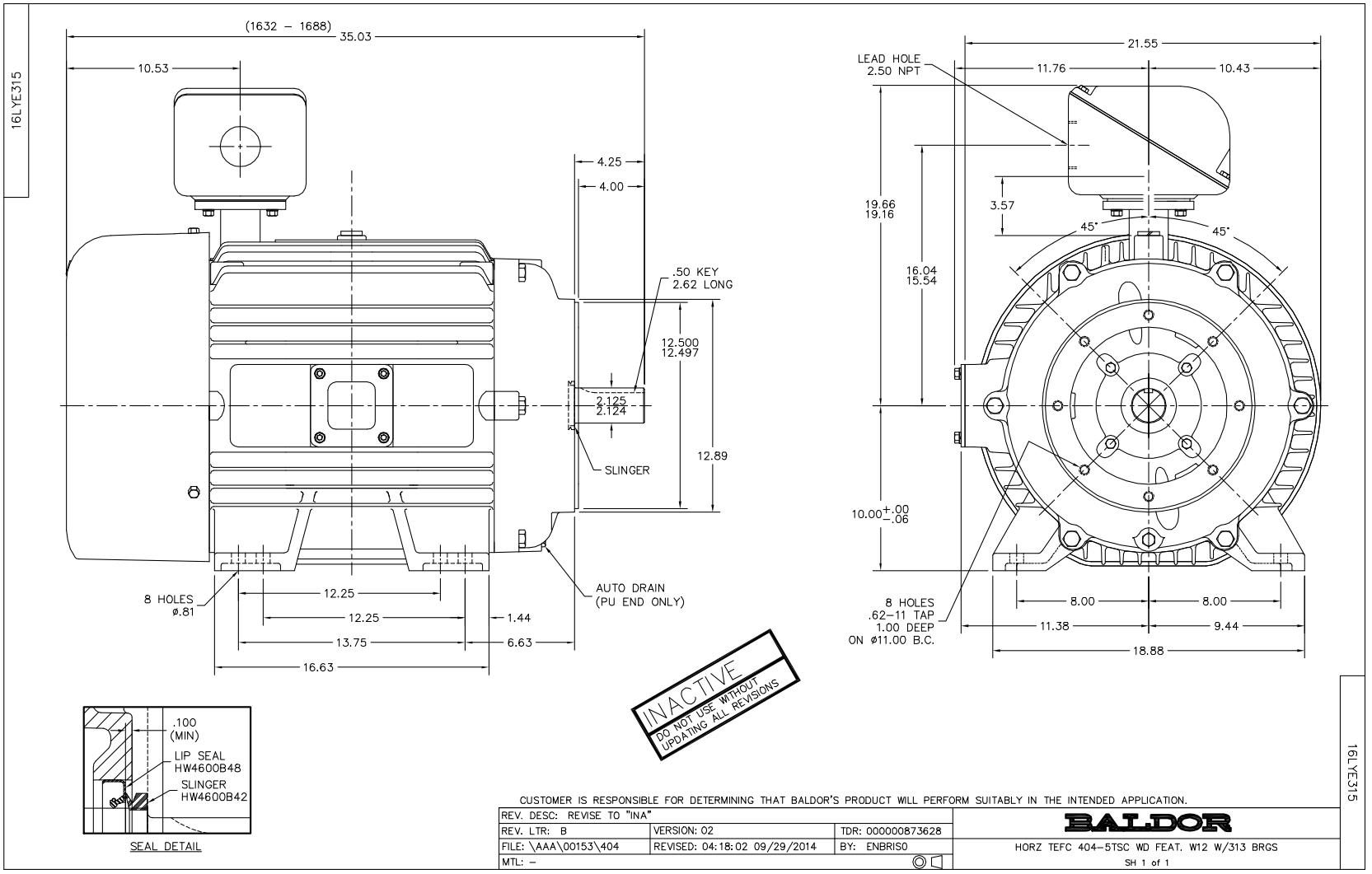
Part Detail

Revision	E
Type	AC
Mech. spec.	16E315
Base	
Status	NLA/A
Elec. spec.	16WGW353
Layout	16LYE315
Eff. date	12-03-2010
CD Diagram	CD0006
Poles	02
Leads	3#2
Proprietary	False
Created date	12-27-2007

KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 2 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1668M
Mounting Arrangement	W12
Number of Poles	2
Overall Length	35.03 IN
Power Factor	91
Product Family	Wash Down Cast Iron Motor
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3570 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

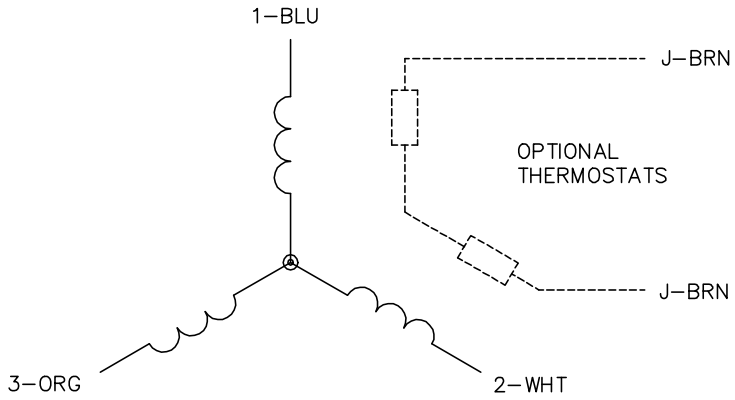
Nameplate

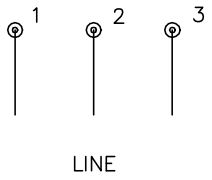
NP1267E								
CAT.NO.								
SPEC.	16E315W353G1							
HP	100							
VOLTS	380							
AMP	132							
RPM	3570							
FRAME	405TSC	**HZ**	60		**PH**	3		
SER.F.	1.00	**CODE**	H	**DES**	B	**CL**	F	
NEMA-NOM-EFF	94.5	**PF**	91					
RATING	40C AMB-CONT							
CC				**USABLE AT 208V**		N/A		
DE	6313	**ODE**	6313					
ENCL	TEFC	**SN**						


16LYE315
(1632 – 1688)
35.03
10.53
4.25
4.00
.50 KEY
2.62 LONG
12.500
12.497
2.125
2.124
SLINGER
12.89
8 HOLES
ø.81
12.25
12.25
1.44
13.75
6.63
16.63
AUTO DRAIN
(PU END ONLY)
21.55
LEAD HOLE
2.50 NPT
11.76
10.43
19.66
19.16
3.57
45°
45°
16.04
15.54
10.00 +.00 -.06
8 HOLES
.62–11 TAP
1.00 DEEP
ON ø11.00 B.C.
8.00
8.00
11.38
9.44
18.88
INACTIVE
DO NOT USE WITHOUT UPDATING ALL REVISIONS
.100
(MIN)
LIP SEAL
HW4600B48
SLINGER
HW4600B42
SEAL DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.
REV. DESC: REVISE TO "INA"
REV. LTR: B
VERSION: 02
TDR: 000000873628
FILE: \AAA\00153\404
REVISED: 04:18:02 09/29/2014
BY: ENBRISO
MTL: –
BALDOR
HORZ TEFC 404–5TSC WD FEAT. W12 W/313 BRGS
SH 1 of 1
16LYE315

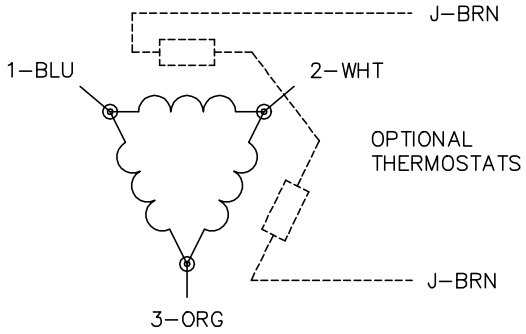
CD0006

TYPICAL WYE–CONNECTED MOTOR





TYPICAL DELTA–CONNECTED MOTOR



NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: E	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

SH 1 of 1