



Customer information packet

ECS101M0H2DF4

2HP, 1800RPM, 3PH, 60HZ, 145T, 3524B, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	145T
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 460.0 V @ 60 HZ
Agency Approvals	WEEE CULUS
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	1.500 A @ 460.0 V 3.000 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	88.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	1.5 a
Insulation Class	F

Part detail

Revision	C
Type	AC
Mech. spec.	35E6264
Base	
Status	PRD/A
Elec. spec.	35WGG983
Layout	35LYE6264
Eff. date	06-16-2025
CD Diagram	CD0005A25
Poles	04
Leads	9#16 Y
Proprietary	False
Created date	03-15-2024

Inverter Code	Inverter Duty
KVA Code	N
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3524B
Mounting Arrangement	F1
Number of Poles	4
Overall Length	13.29 IN
Power Factor	93
Product Family	General Purpose
Pulley Face Code	Standard
Rodent Screen	None
RoHS Status	Y
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

BALDOR • RELIANCE

EC-Titanium™

CAT. NO.	ECS101M0H2DF4									
SPEC.	35E6264G983								YR	***
FRAME	145T				ENCL.		TEFC		IP	54
HP	2		RATING		40C AMB-CONT					
NOM. EFF.	91.9			PF		93		SF		1.50
VOLTS	230/460					FLA		4.4/2.2		
RPM	1800				RPM MAX			4000		
HZ	60				PH.		3		CLASS F	
BEMF (V)	148/296					Rs (Ω)		2.9/11.7		
Ld (mH)	19.7/78.9					Lq (mH)		101.5/406		
INV TYP	VPWM		CHP		60		TO 133		HZ	
	CT	6			TO 60 HZ			VT	6 TO 60 HZ	
MATCHED INV	ACS380-04XX-04A8-1 / 02A6-4									
BEARING	DE	6205					ODE		6203	
SERIAL#	***									

ELECTRIC MOTOR FOR INDUSTRIAL USE



ABB MOTORS AND MECHANICAL INC.
5711 R.S. BOREHAM JR. ST., FORT SMITH, AR. MFG IN U.S.A.

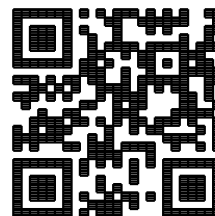
FERRITE ASSISTED
SYNCHRONOUS RELUCTANCE MOTOR
FOR INVERTER USE ONLY



PERMANENT MAGNET MOTOR. WHEN SHAFT IS
ROTATED, VOLTAGE WILL BE GENERATED AT
THE MOTOR TERMINALS.

MOTEUR À AIMANT PERMANENT. LORSQUE
L'ARBRE TOURNE, UNE TENSION SERA
GÉNÉRÉE AUX BORNES DU MOTEUR.

BALDOR-RELIANCE
SHAFT GROUNDING BRUSH INSTALLED



Volts	460	Max RPM	4000	Conn Diag.	CD0006B03	Leads	3
Amps	1.75	Max Amps		Cs Diagram	CS1126	BEMF	296
HP	2	VFD#	ECIN4A2P2			LD	78.9
RPM	1800	S.F.	1.00			LQ	406
Phase/Hz	3/60	Rating	50C AMB-CONT			Rs	11.7741 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	1622	90%	5.8	100%	1.8	91.2	8.59%	130
P2	895	50%	5.8	100%	1.0	86.9	7.45%	112
P3	448	25%	5.8	100%	0.5	80.2	6.10%	92
P4	1623	90%	2.9	50%	0.9	91.7	4.08%	62
P5	900	50%	2.9	50%	0.5	89.7	2.85%	43
P6	898	50%	1.5	25%	0.2	88.8	1.56%	24
P7	445	25%	1.5	25%	0.1	84.8	1.11%	17

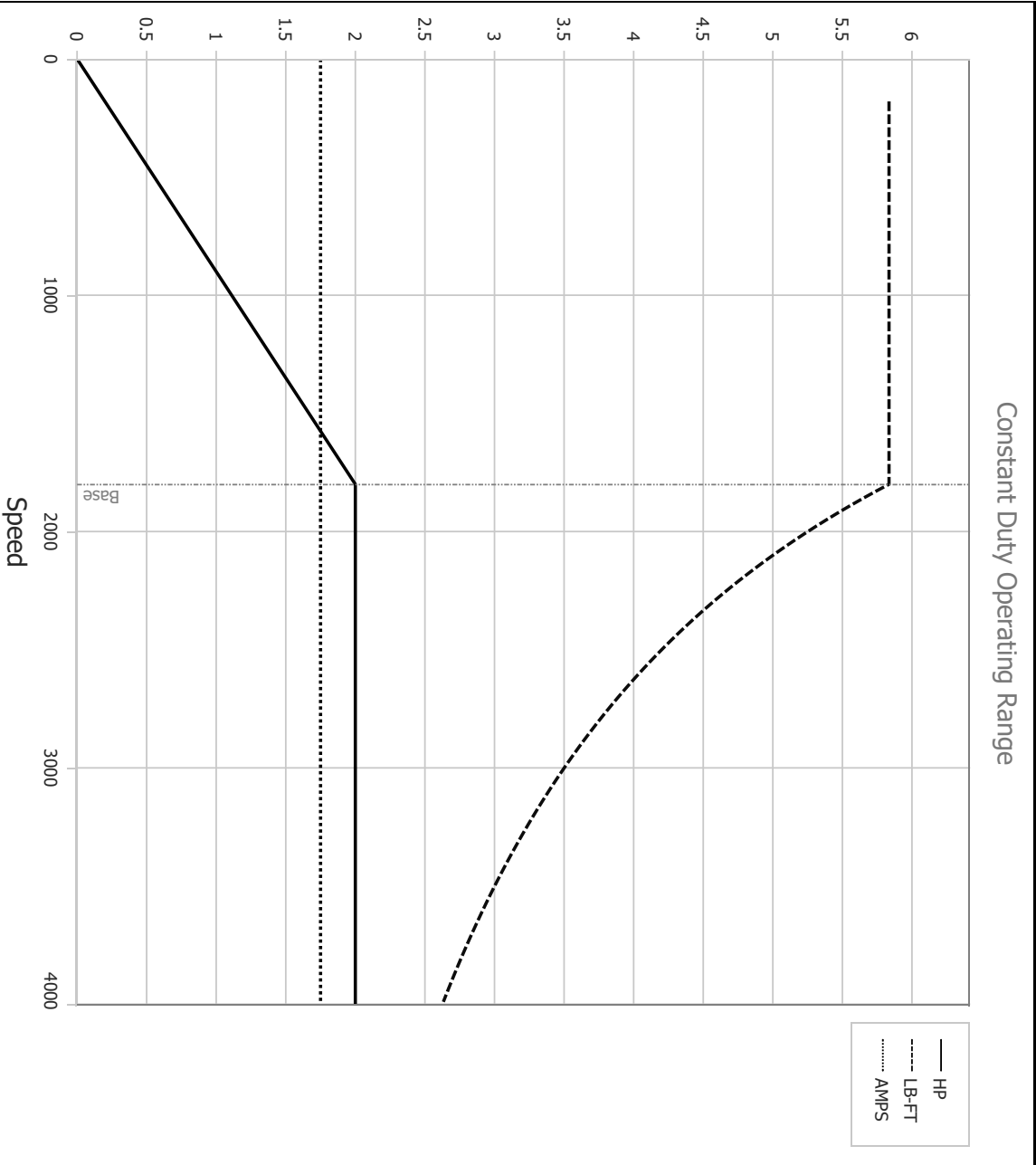
61800-9-2 PDS Performance at Reference Operating Points

	RPM	% Speed	LB-FT	% Torque	HP	System Efficiency	Loss (% FL)	Watts Loss (W)
P1	1806	100%	5.8	100%	2.0	88.6	12.70%	192
P2	895	50%	5.8	100%	1.0	82.7	10.27%	155
P3	299	17%	5.8	100%	0.3	66.2	8.39%	127
P4	1807	100%	2.9	50%	1.0	89.0	6.15%	93
P5	900	50%	2.9	50%	0.5	83.4	4.92%	74
P6	300	17%	2.9	50%	0.2	66.8	4.10%	62
P7	898	50%	1.5	25%	0.2	78.9	3.30%	50
P8	298	17%	1.5	25%	0.1	60.7	2.65%	40

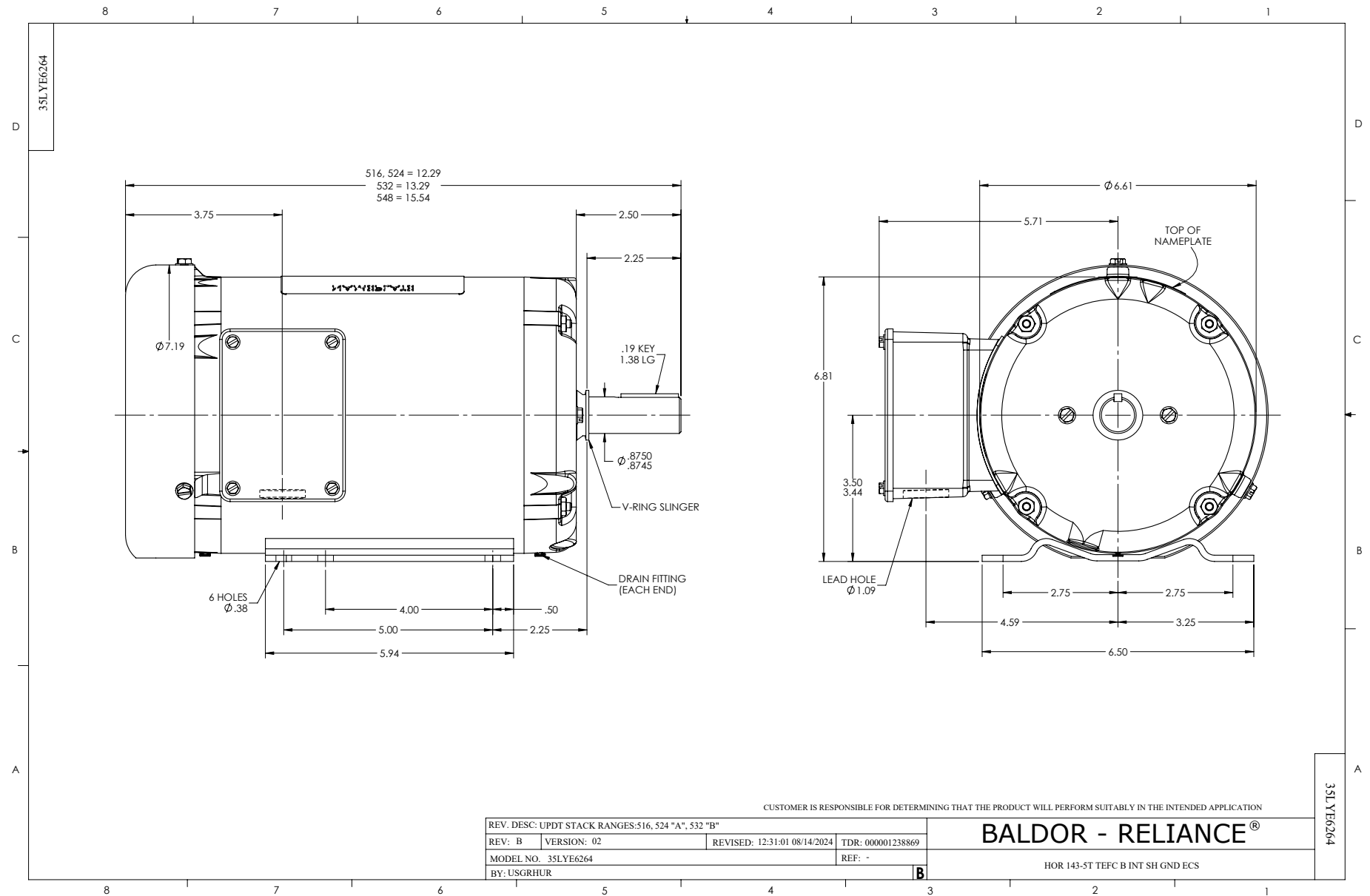
Points not taken in certified order.

BALDOR • RELIANCE	DR By: <u>R & D</u> CK By: <u>USTOSAN</u> APP By: <u>USJAROB1</u> Date: <u>10/02/2024</u>	AC MOTOR PERFORMANCE CURVES	35WGG963 35-0000-1627 Test - 111378
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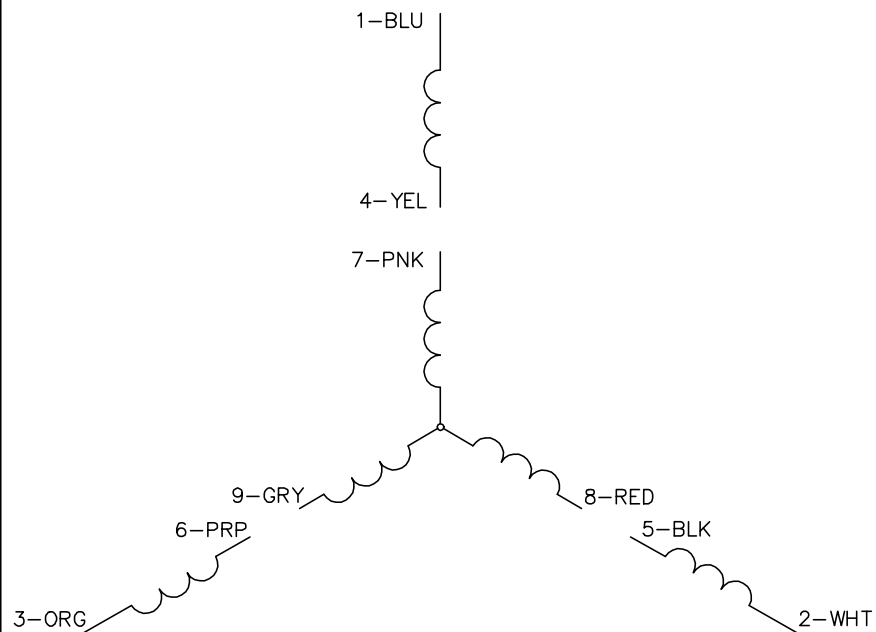
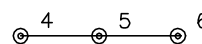
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CD0005A25

LOW VOLTAGE
(2Y)

U V W

INVERTER

HIGH VOLTAGE
(1Y)

U V W

INVERTER

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.

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

CD0005A25