

ABB BALDOR RELIANCE III

Customer information packet

ECS101M0H3DB4

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

Class - None

Division - Not Applicable

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	3.000 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	3.500 A @ 460.0 V 7.000 A @ 230.0 V
Design Code	-
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	3.5 a
Insulation Class	F

Part Detail

Revision	F
Type	AC
Mech. spec.	35E5263
Base	
Status	PRD/A
Elec. spec.	35WGG984
Layout	35LYE5263
Eff. date	02-12-2026
CD Diagram	CD0005A25
Poles	04
Leads	9#16 Y
Proprietary	False
Created date	03-15-2024

Inverter Code	Inverter Duty
KVA Code	-
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 116 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3532B
Mounting Arrangement	F1
Number of Poles	4
Overall Length	14.17 IN
Power Factor	97
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
RoHS Status	Y
Service Factor	1.15
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

Volts	460	Max RPM	4000	Conn Diag.	CD0006B03	Leads	3
Amps	3.5	Max Amps		Cs Diagram	CS1126	BEMF	267
HP	3	VFD#	ECIN4A4P1			LD	57.9
RPM	1800	S.F.	1.00			LQ	218
Phase/Hz	3/60	Rating	40C AMB-CONT			Rs	6.6786 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	1615	90%	8.8	100%	2.7	91.0	8.80%	199
P2	897	50%	8.8	100%	1.5	86.7	7.59%	172
P3	446	25%	8.8	100%	0.7	79.1	6.48%	147
P4	1617	90%	4.4	50%	1.3	91.4	4.22%	95
P5	896	50%	4.4	50%	0.7	88.5	3.22%	73
P6	895	50%	2.2	25%	0.4	87.6	1.74%	39
P7	444	25%	2.2	25%	0.2	82.2	1.32%	30

61800-9-2 PDS Performance at Reference Operating Points

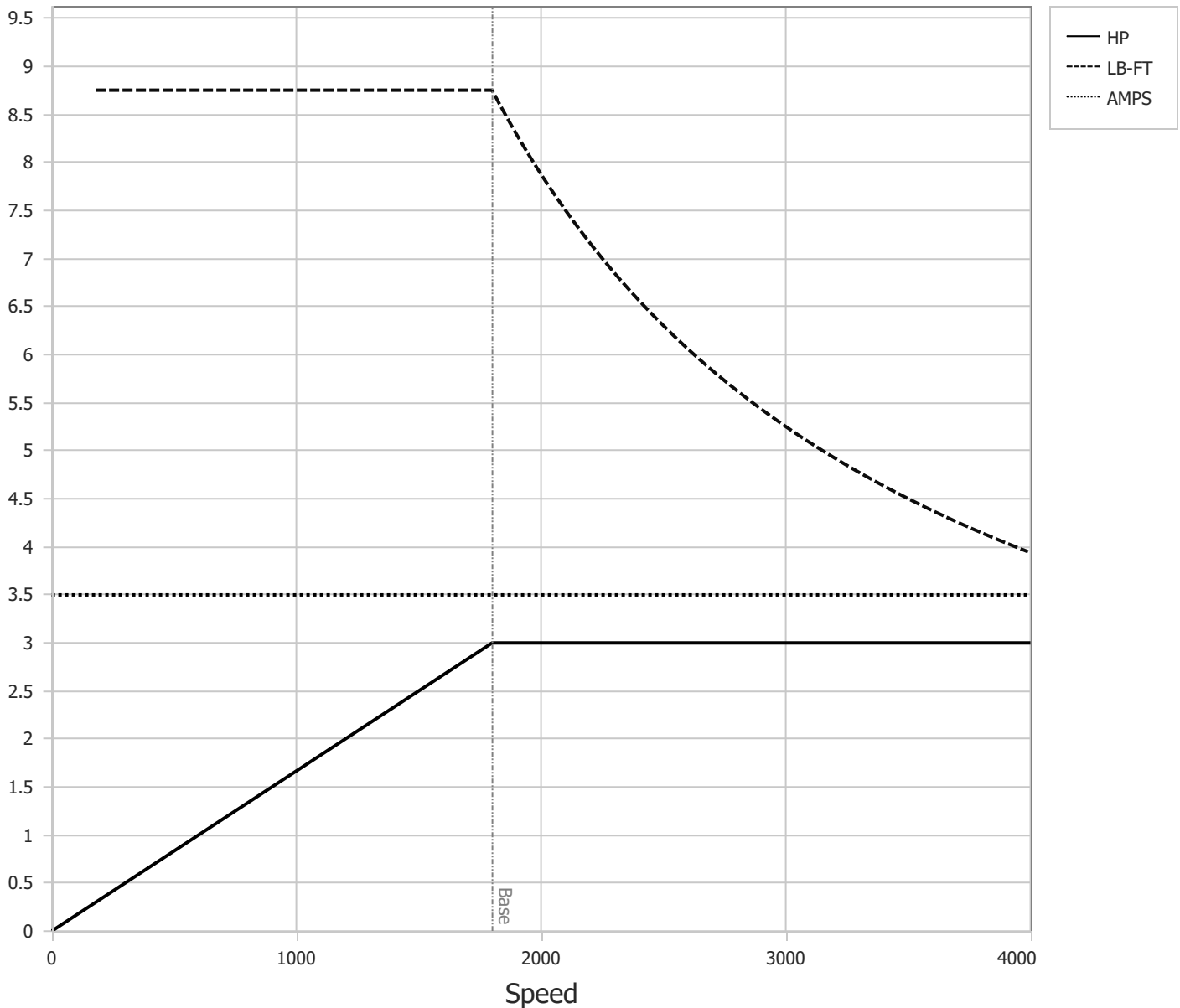
	RPM	% Speed	LB-FT	% Torque	HP	System Efficiency	Loss (% FL)	Watts Loss (W)
P1	1800	100%	8.8	100%	3.0	88.5	12.88%	292
P2	897	50%	8.8	100%	1.5	82.9	10.19%	231
P3	296	17%	8.8	100%	0.5	65.5	8.56%	194
P4	1798	100%	4.4	50%	1.5	88.2	6.59%	149
P5	896	50%	4.4	50%	0.7	83.4	4.91%	111
P6	295	17%	4.4	50%	0.2	66.3	4.11%	93
P7	895	50%	2.2	25%	0.4	80.3	3.01%	68
P8	294	17%	2.2	25%	0.1	62.1	2.46%	56

Points not taken in certified order.

BALDOR • RELIANCE	DR By:	<u>R & D</u>	AC MOTOR PERFORMANCE CURVES	35WGG943 35E5209G943 Test - 110858
	CK By:	<u>USTOSAN</u>		
	APP By:	<u>USJAROB1</u>		
	Date:	<u>06/27/2024</u>		

Volts	460	Max RPM	4000	Conn Diag.	CD0006B03	Leads	3
Amps	3.5	Max Amps		Cs Diagram	CS1126	BEMF	267
HP	3	VFD #	ECIN4A4P1			LD	57.9
RPM	1800	S.F.	1.00			LQ	218
Phase/Hz	3/60	Rating	40C AMB-CONT			Rs	6.6786 Meas L-L

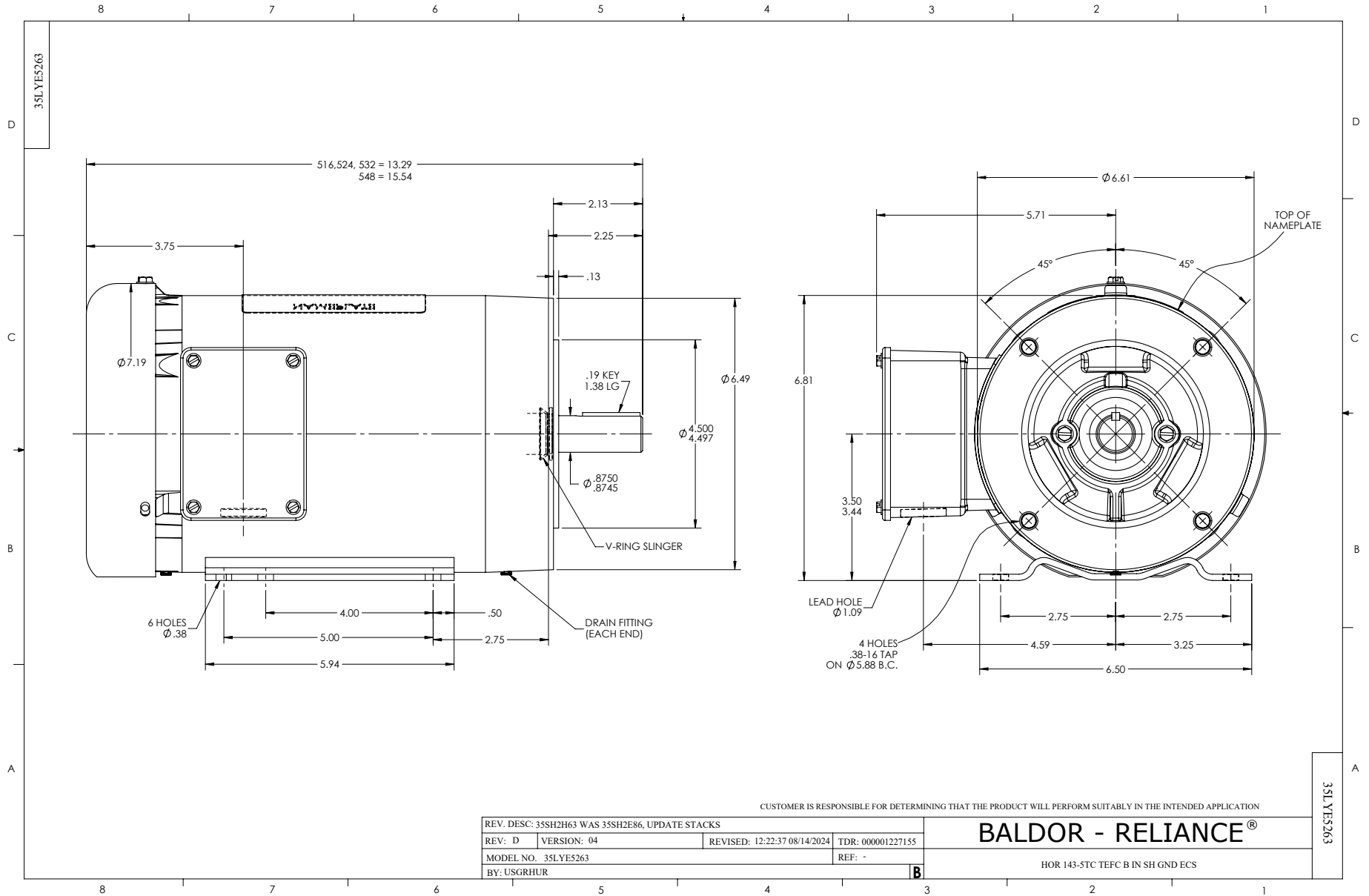
Constant Duty Operating Range



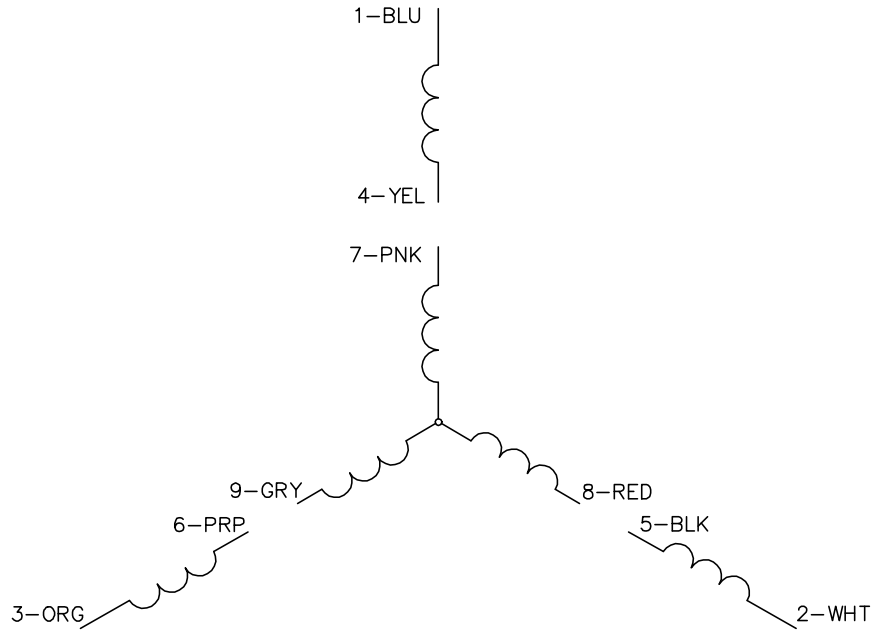
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**AC MOTOR
PERFORMANCE
CURVES**

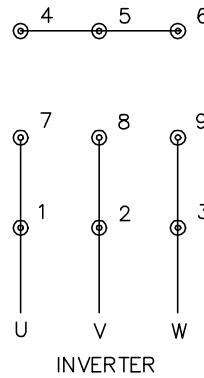
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 35E5209G943
 Test - 110858



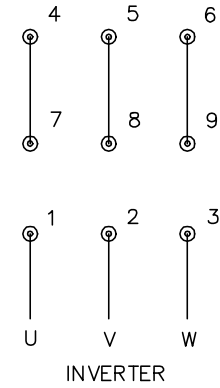
CD0005A25



LOW VOLTAGE
(2Y)



HIGH VOLTAGE
(1Y)



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.

CD0005A25

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