

ABB BALDOR RELIANCE III

Customer information packet

VEBM3558

2HP, 1750RPM, 3PH, 60HZ, 56C, 3526M, TEFC, F1, B

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	56C
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
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	CURUSEEV NEMA PREMIUM
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
Current @ Voltage	2.600 A @ 460.0 V 5.200 A @ 230.0 V 5.800 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	2.6 a

Part Detail

Revision	A
Type	AC
Mech. spec.	35G259
Base	
Status	PRD/A
Elec. spec.	35WGZ165
Layout	35LYG259
Eff. date	04-20-2026
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	11-04-2025

Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3526M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	17.86 IN
Power Factor	82
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1750 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

NP1259L											
CAT.NO.	VEBM3558										
SPEC.	35G259Z165										
HP	2										
VOLTS	230/460										
AMP	5.2/2.6										
RPM	1750										
FRAME	56C		HZ	60				PH	3		
SER.F.	1.15	CODE	K	DES	B	CL	F				
NEMA-NOM-EFF	86.5	PF	82								
RATING	40C AMB-CONT										
CC	010A										
DE	6205		ODE	6203							
ENCL	TEFC	SN									
	SFA 6.3/3.15										

Parts List

Part number	Description	Quantity
SA444202	SA 35G259Z165	1.000 ea
RA436728	RA 35G259Z165	1.000 ea
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 ea
35CB3000SP	CONDUIT BOX, CAST, W/.88 DIA. LEAD HOLE	1.000 ea
36GS1000SP	GASKET-CONDUIT BOX, .06 THICK #SV-330 LE	1.000 ea
51XB1016A07	10-16 X 7/16 HXWSSLD SERTYB	2.000 ea
35CB4514GX	CONDUIT BOX LID KIT	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
35EP3900T01	SPL FACE MTD FR EP-ENCL-W/STEARNS BRAKE	1.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
35EP3307F00	MASTER DE,205 BRG,.998SH,#26 DRN	1.000 ea
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	2.000 ea
HW2501D08	KEY, 3/16 SQ X .875 AUTO	1.000 ea
BR1003A01	BRAKE RELEASE LEVER	1.000 ea
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 ea
35FH5000A08	FAN COVER ASSY FOR BRAKE MTRS,W/ PRIMER	1.000 ea
51XN1032A07	10-32 X .38 HEX SLOTTED SERRATED WASHER	3.000 ea
HA1014A02SP	SPL SPACER FOR FAN COVER MTD ON BRAKE	3.000 ea
51XB1016A07	10-16 X 7/16 HXWSSLD SERTYB	3.000 ea
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 ea
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
HW3001B01	BRASS CUP WASHER, FOR #10 SCREW	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
84XN3816J28	HEX SOC HD, 3/8-16 X 1.75 LONG	2.000 ea
MG1050Y01	CELEROL BALDOR GOLD *5 GALLON BUCKET*	0.017 ga
76BK3100BQF	1-056-031-00-BQF BRAKE TDR# 79345	1.000 ea
HA3100A15	THRUBOLT 10-32 X 8.375	4.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
LC0005	CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING	1.000 ea

NP1259L	ALUM SUPER-E UL CC NEMA PREMIUM A60	1.000 ea
G7PA1000	PKG GRP, PRINT PK1034A07	1.000 ea
PK3082	STYROFOAM CRADLE	1.000 ea
PK3088	MICROFOAM, 8"X"8 PERF. SHEETS	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
35FN3002A01SP	EXFN, PLASTIC, 6.376 OD, .625 ID W/FLAT	1.000 ea
PE-0000001	ZRTG PE ASSEMBLY	1.000 ea

AC Induction Motor Performance Data

Record # 114535

Typical performance - not guaranteed values

Winding: 35WGZ165-R001			Type: 3526M		Enclosure: TEFC			
Nameplate Data				460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		2		Full Load Torque		5.979 LB-FT		
Volts		230/460		Start Configuration		direct on line		
Full Load Amps		5.2/2.6		Breakdown Torque		18.4 LB-FT		
R.P.M.		1750		Pull-up Torque		13.7 LB-FT		
Hz		60	Phase	3	Locked-rotor Torque		14.5 LB-FT	
NEMA Design Code		B	KVA Code		K	Starting Current		17.9 A
Service Factor (S.F.)		1.15		No-load Current		1.24 A		
NEMA Nom. Eff.		86.5	Power Factor		82	Line-line Res. @ 25°C		10.857 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		59°C		
S.F. Amps		6/3		Temp. Rise @ S.F. Load		75°C		
				Locked-rotor Power Factor		59.3		

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	42	64	76	82	86	87	84
Efficiency	82.7	87.6	87.8	86.6	84.6	82	85.4
Speed	1788.4	1776.9	1763.5	1748.9	1731.7	1711.8	1739
Line amperes	1.35	1.65	2.09	2.61	3.21	3.91	2.97

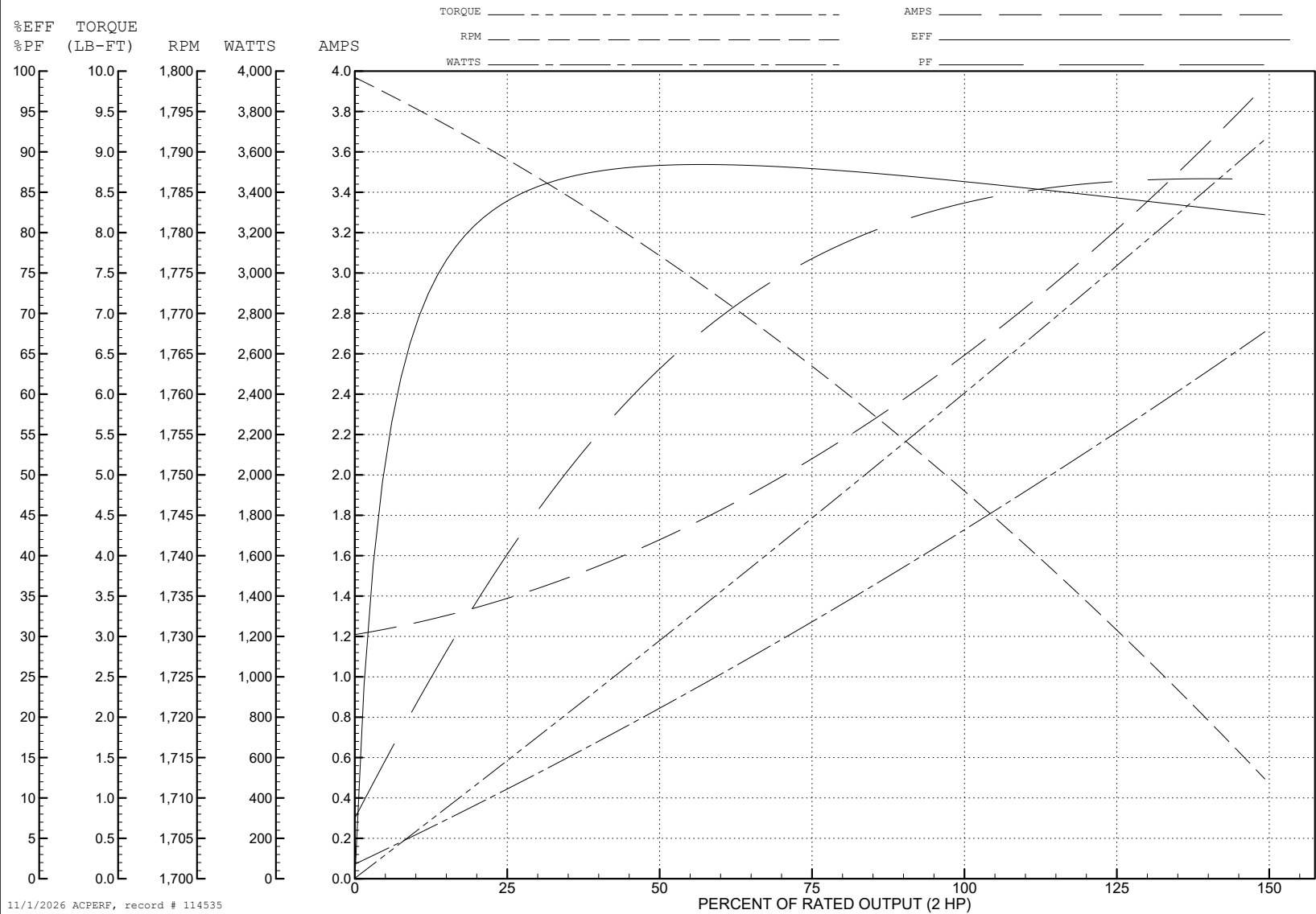
ABB Motors and Mechanical Inc.

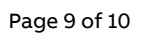
WINDING # 35WGZ165

Typical performance - not guaranteed values.

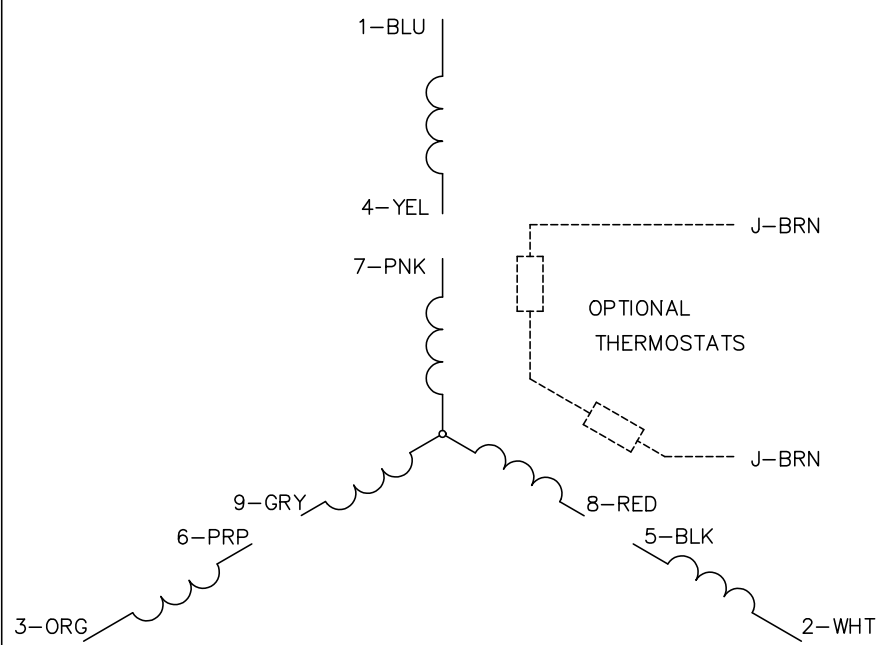
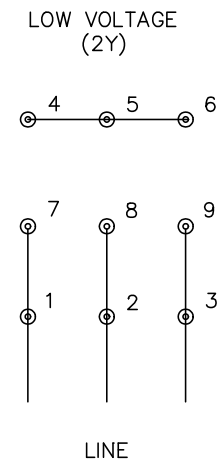
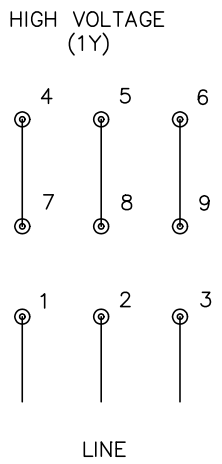
2 HP 3 PH 60 HZ 1750 RPM 460 V 3526M

TORQUES (LB-FT): PO=18.4 PU=13.7 LR=14.5 LRA=17.9





CD0005



- NOTES:
- 1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
 - 2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
 - 3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
 - 4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
900000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005