

ABB BALDOR RELIANCE III

Customer information packet

VEM3155T

2HP, 3450RPM, 3PH, 60HZ, 143TC, 3524M, ODP, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	OPEN
Frame	143TC
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	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ 208.0 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	5.500 A @ 208.0 V 5.000 A @ 230.0 V 2.500 A @ 460.0 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 Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	U
Type	AC
Mech. spec.	35Z413
Base	
Status	PRD/A
Elec. spec.	35WGS095
Layout	35LYZ413
Eff. date	01-05-2026
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	04-24-2015

Heater Indicator	No Heater
High Voltage Full Load Amps	2.5 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3524M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	13.25 IN
Power Factor	90
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3450 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

NP3553LUA									
CAT.NO.	VEM3155T								
SPEC.	35Z413S095G1								
HP	2								
VOLTS	208-230/460								
AMPS	5.5-5/2.5								
RPM	3450								
FRAME	143TC		HZ	60			PH	3	
SF	1.15	CODE	K	DES	B	CLASS	F		
NEMA NOM. EFF	86.5	PF	90						
RATING	40C AMB-CONT								
CC	010A								
ENCL	OPEN	SN							
DE	6205		ODE	6203					
VPWM INVERTER READY									
CT30-60(2:1) VT3-60(20:1)									
USABLE AT	50HZ 2HP 190/380V 6/3A							SF1.0	

AC Induction Motor Performance Data

Record # 62663

Typical performance - not guaranteed values

Winding: 35WGS095-R006		Type: 3524M	Enclosure: ODP
Nameplate Data		460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	2	Full Load Torque	3 LB-FT
Volts	208-230/460	Start Configuration	direct on line
Full Load Amps	5.5-5/2.5	Breakdown Torque	11 LB-FT
R.P.M.	3450	Pull-up Torque	7.6 LB-FT
Hz	60 Phase	Locked-rotor Torque	9.8 LB-FT
NEMA Design Code	B KVA Code	Starting Current	22 A
Service Factor (S.F.)	1.15	No-load Current	0.9 A
NEMA Nom. Eff.	86.5 Power Factor	Line-line Res. @ 25°C	7.37 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	23°C
S.F. Amps		Temp. Rise @ S.F. Load	28°C
		Locked-rotor Power Factor	48.6
		Rotor inertia	0.0664 LB-FT ²

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	52	77	84	85	89	88	87
Efficiency	83.8	87.8	88.1	87.2	85.6	83.6	86.2
Speed	3569	3540	3509	3475	3438	3398	3453
Line amperes	1.1	1.4	1.9	2.5	3	3.7	2.8

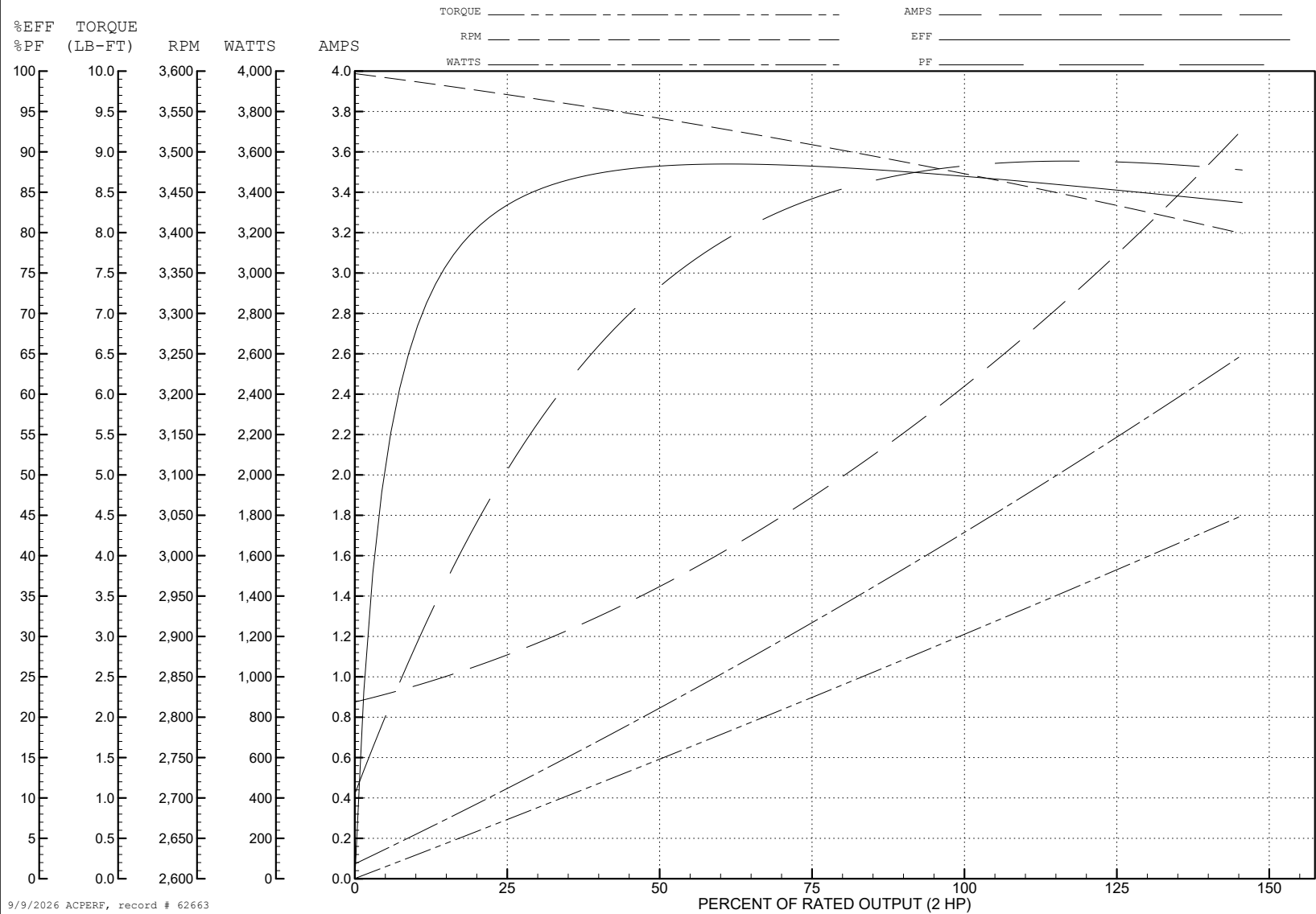
ABB Motors and Mechanical Inc.

WINDING # 35WGS095

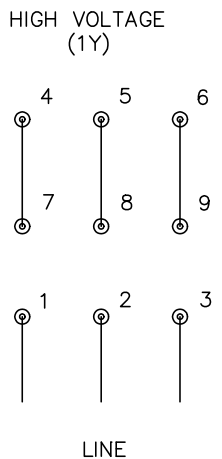
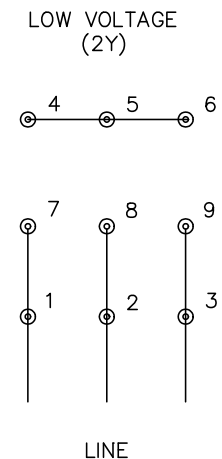
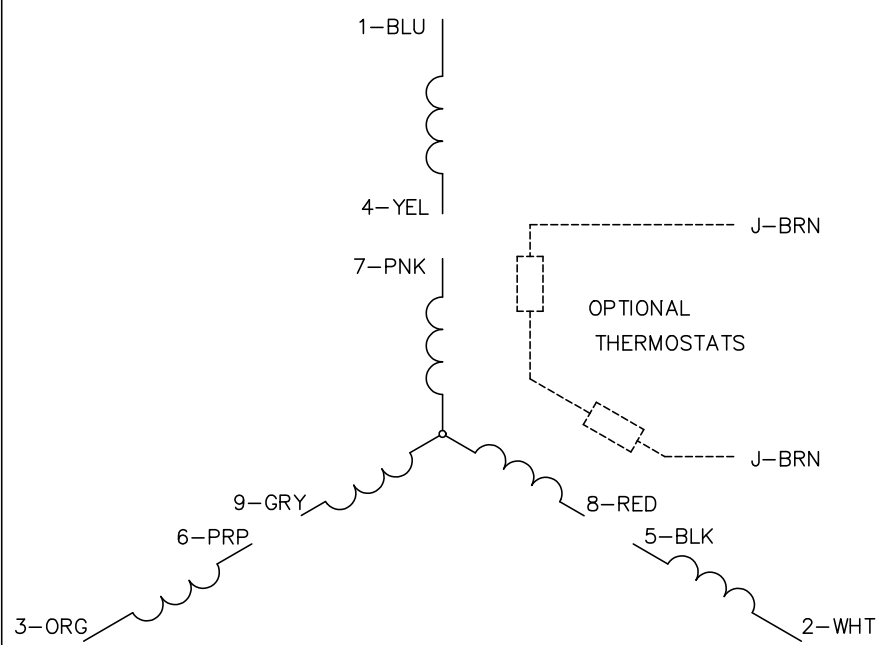
Typical performance - not guaranteed values.

2 HP 3 PH 60 HZ 3450 RPM 460 V 3524M

TORQUES (LB-FT) : PO=11 PU=7.6 LR=9.8 LRA=22



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- 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