

ABB BALDOR RELIANCE III

Customer information packet

ZDM3582T

1HP, 1170RPM, 3PH, 60HZ, 143TC, 0526M, TEBC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEBC
Frame	143TC
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	1.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA 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	BLOWER
Current @ Voltage	3.000 A @ 230.0 V 1.500 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	82.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	ENCODER
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.5 a
Insulation Class	H

Part Detail

Revision	B
Type	AC
Mech. spec.	05E535
Base	
Status	PRD/A
Elec. spec.	05WGX571
Layout	05LYE535
Eff. date	09-30-2025
CD Diagram	CD0005
Poles	06
Leads	9#18
Proprietary	False
Created date	09-09-2022

Inverter Code	Inverter Duty
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	1800 rpm
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0526M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	19.02 IN
Power Factor	67
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible: Connected Standard
Shaft Slinger Indicator	Shaft Slinger
Speed	1170 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

NP4028L									
CAT.NO.	ZDM3582T								
SPEC.	05E535X571G2								
FRAME	143TC	H.P.		1 TE					
VOLTS	230/460								
MAG. CUR.	2/1	F.L. AMPS			3/1.5				
R.P.M.	1170	R.P.M. MAX		1800					
HZ.	60	PH.	3	CLASS		H			
SER.F.	1.00	DES.	B	SL HZ		1.5			
NEMA NOM. EFF.	82.5	WK2	0.189						
BLWR V	115	PH	1	HZ	60	AMPS		.5	
RATING	40C AMB-CONT								
DE	6205	ODE	6203						
CC	010A	SN							
	1000:1 CT/VT								

AC Induction Motor Performance Data

Record # 87614

Typical performance - not guaranteed values

Winding: 05WGX571-R005			Type: 0526M		Enclosure: TEBC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		1	Full Load Torque		4.479 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		3.4/1.7	Breakdown Torque		11.9 LB-FT		
R.P.M.		1155	Pull-up Torque		7.06 LB-FT		
Hz		60	Phase		3	Locked-rotor Torque	8.62 LB-FT
NEMA Design Code		B	KVA Code		J	Starting Current	9.06 A
Service Factor (S.F.)		1	No-load Current		1.02 A		
NEMA Nom. Eff.		82.5	Power Factor		67	Line-line Res. @ 25°C	20.372 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		46°C	
				Locked-rotor Power Factor		48.3	
				Rotor inertia		0.189 lb-ft²	

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	29	47	1	1	1	1
Efficiency	73.5	81.9	83.5	83.1	81.6	79.1
Speed	1192.5	1185.4	1177.6	1168.7	1159	1147
Line amperes	1.07	1.21	1.41	1.67	1.98	2.35

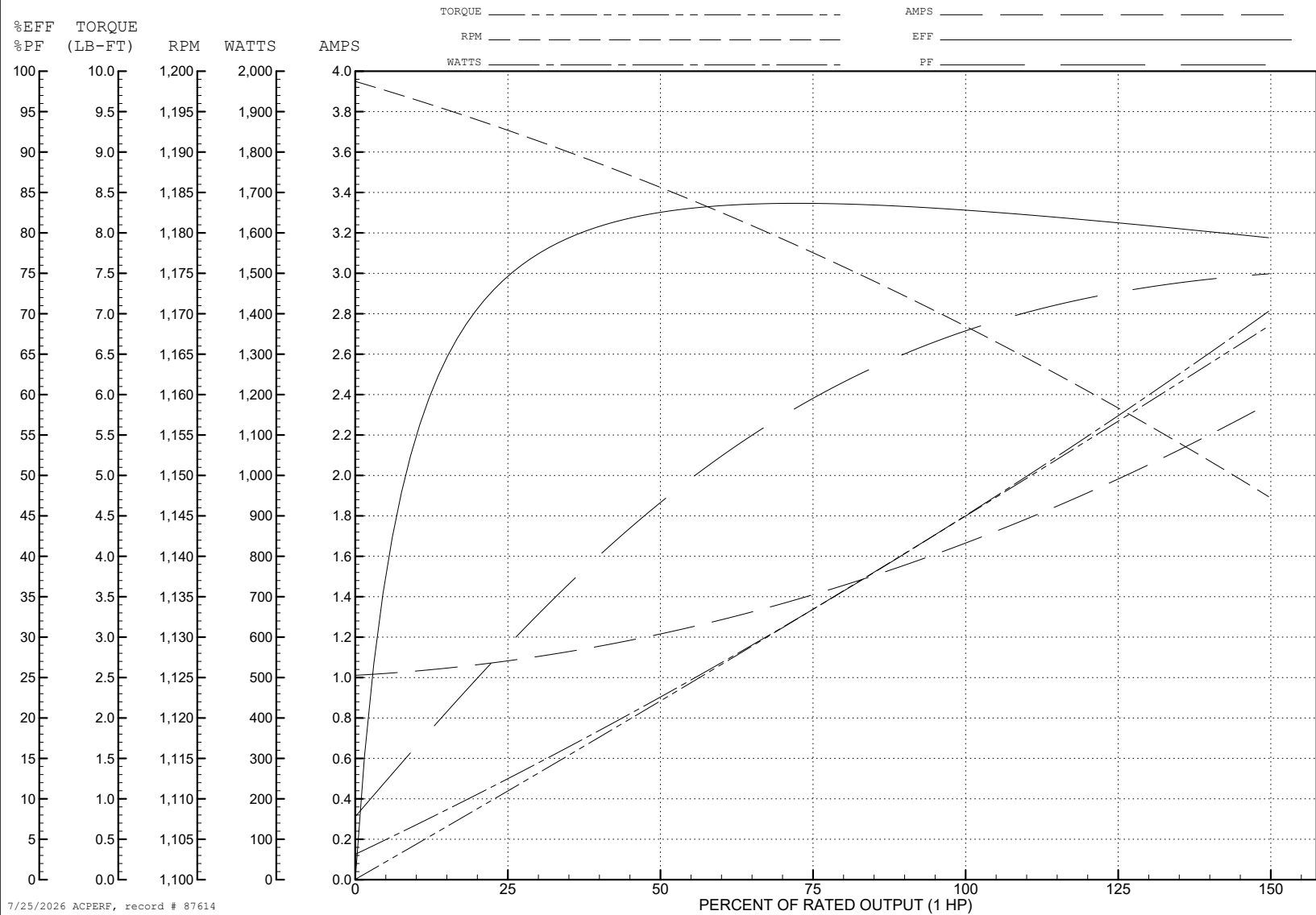
ABB Motors and Mechanical Inc.

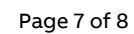
WINDING # 05WGX571

Typical performance - not guaranteed values.

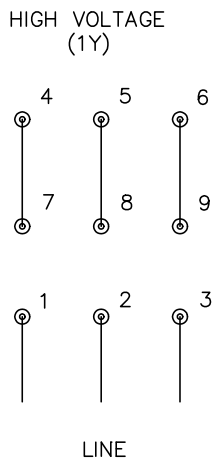
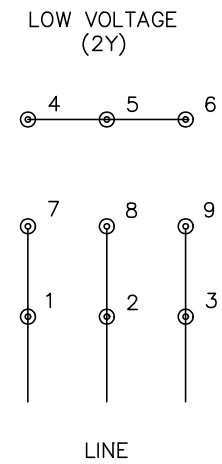
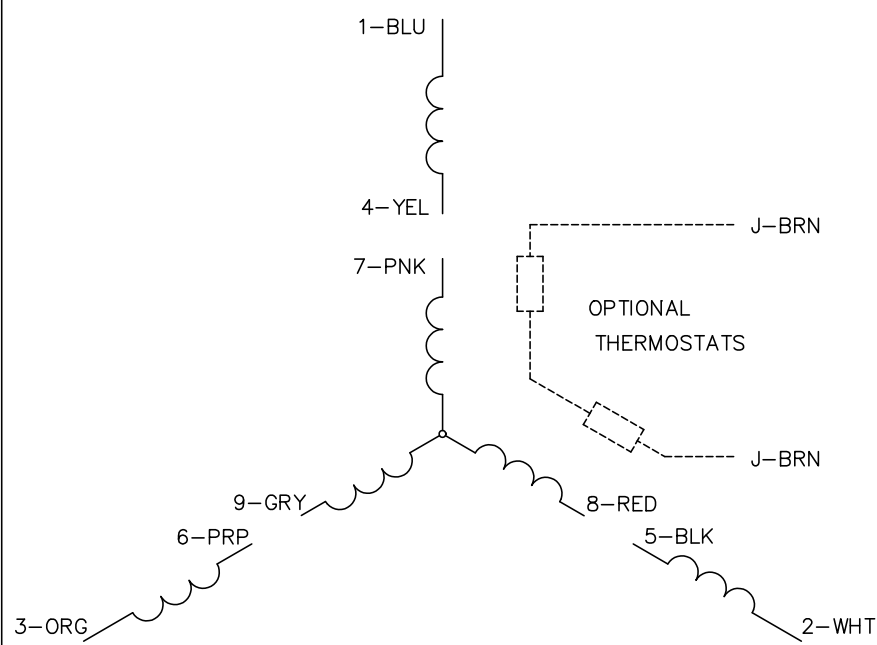
1 HP 3 PH 60 HZ 1155 RPM 460 V 0526M

TORQUES (LB-FT) : PO=11.9 PU=7.06 LR=8.62 LRA=9.06





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