

ABB BALDOR RELIANCE III

Customer information packet

EM3584T-BG

1.5HP, 1770RPM, 3PH, 60HZ, 145T, 0524M, TEFC, F

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	145T
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	1.500 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	NEMA PREMIUM UR CSA EEV
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
Current @ Voltage	2.300 A @ 460.0 V 4.600 A @ 230.0 V 4.640 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

Part Detail

Revision	C
Type	AC
Mech. spec.	05H015
Base	
Status	PRD/A
Elec. spec.	05WGX510
Layout	05LYH015
Eff. date	10-27-2025
CD Diagram	CD0005
Poles	04
Leads	9#18 Y
Proprietary	False
Created date	02-23-2023

High Voltage Full Load Amps	2.3 a
Insulation Class	H
Inverter Code	Inverter Duty
KVA Code	M
Lifting Lugs	Standard 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	0526M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	12.54 IN
Power Factor	72
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Speed	1770 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

NP3441LUA									
CAT.NO.	EM3584T-BG								
SPEC	05H015X510								
HP	1.5								
VOLTS	230/460								
AMPS	4.6/2.3								
RPM	1770								
FRAME	145T		HZ		60		PH		3
SF	1.15	CODE		M	DES	B	CLASS		H
NEMA NOM. EFF	86.5	PF		72					
RATING	40C AMB-CONT								
CC	010A								
ENCL	TEFC	SER							
DE	6205		ODE		6203				
VPWM INVERTER READY			SFA 5/2.5						
CT6-60H(10:1)VT3-60H(20:1									
1.5HP 190/380V 50HZ 5.2/2.6A									SF1.0

AC Induction Motor Performance Data

Record # 75452

Typical performance - not guaranteed values

Winding: 05WGX163-R004			Type: 0526M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		1.5	Full Load Torque		4.54 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		4.6/2.3	Breakdown Torque		21.7 LB-FT		
R.P.M.		1765	Pull-up Torque		12.3 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		15 LB-FT	
NEMA Design Code		B	KVA Code	M	Starting Current		20.7 A
Service Factor (S.F.)		1.15	No-load Current		1.54 A		
NEMA Nom. Eff.		86.5	Power Factor	71	Line-line Res. @ 25°C		8.63 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		34°C
S.F. Amps					Temp. Rise @ S.F. Load		40°C
					Locked-rotor Power Factor		50.3
					Rotor inertia		0.154 LB-FT ²

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	31	49	62	71	77	80	75
Efficiency	74.4	83.1	85.8	86.9	86.5	86	86.7
Speed	1792	1783	1774	1764	1754	1743	1758
Line amperes	1.61	1.77	2.03	2.32	2.69	3.09	2.54

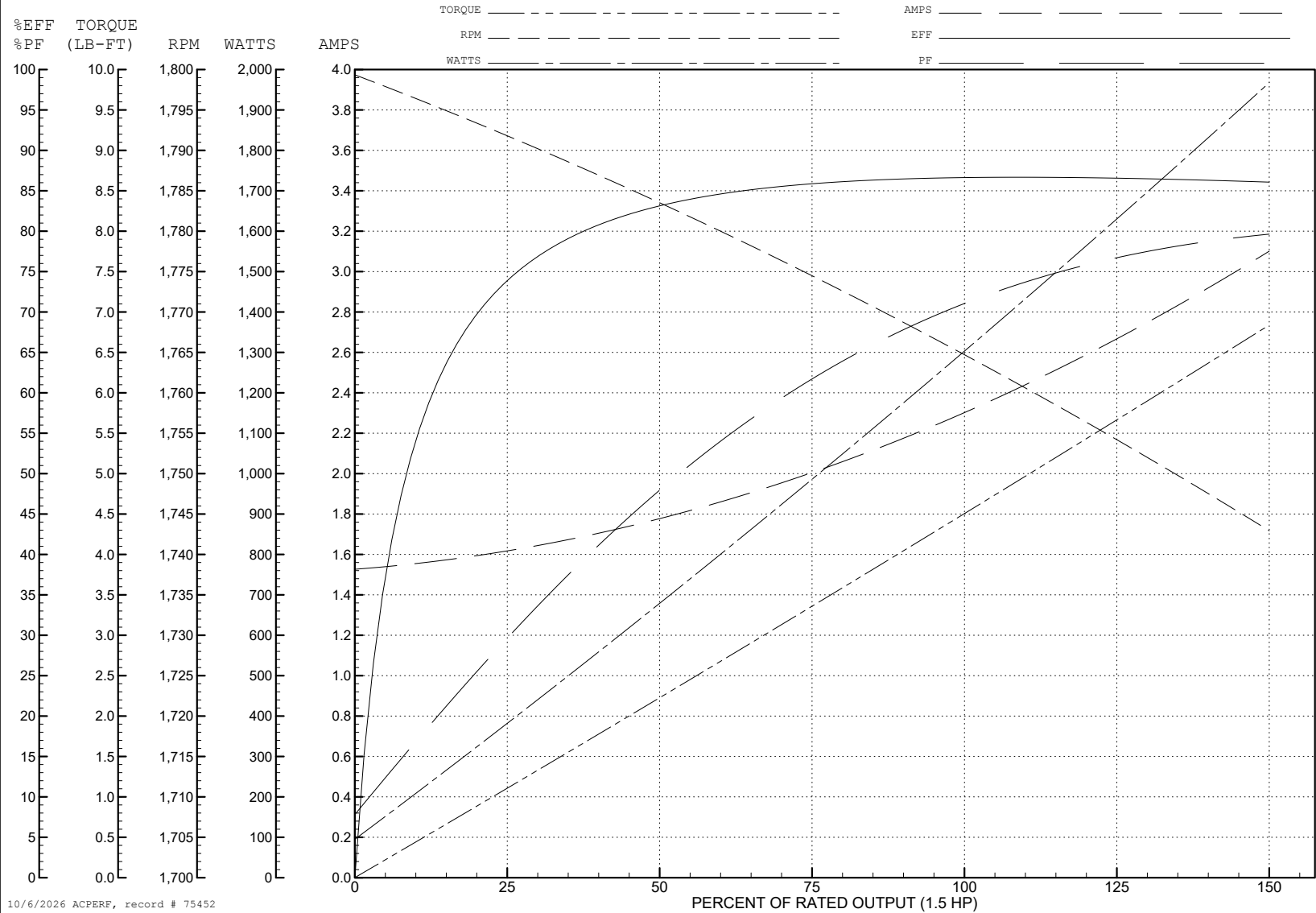
ABB Motors and Mechanical Inc.

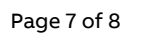
WINDING # 05WGX163

Typical performance - not guaranteed values.

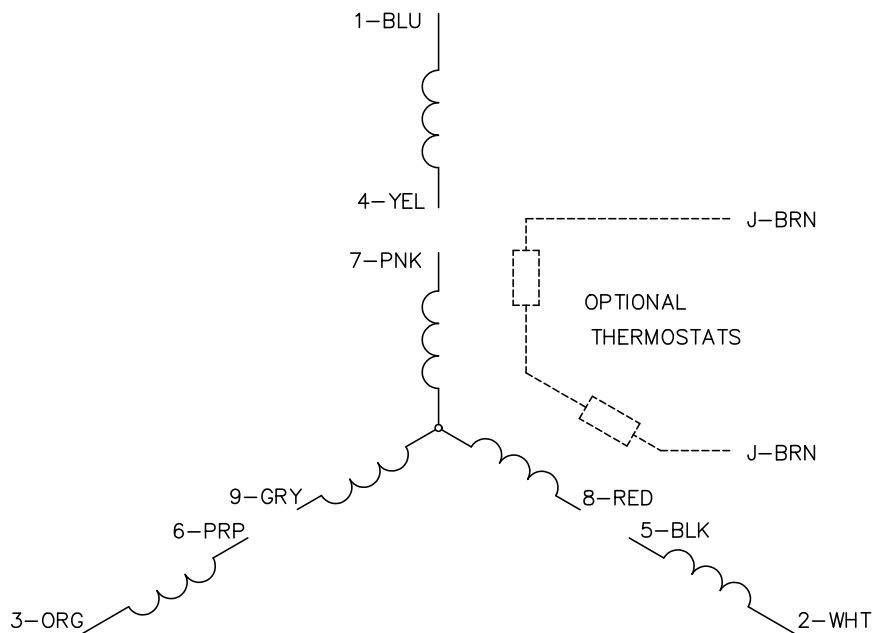
1.5 HP 3 PH 60 HZ 1765 RPM 460 V 0526M

TORQUES (LB-FT): PO=21.7 PU=12.3 LR=15 LRA=20.7

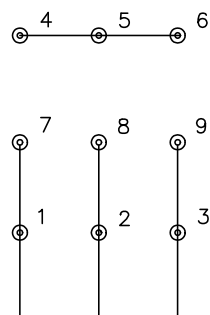




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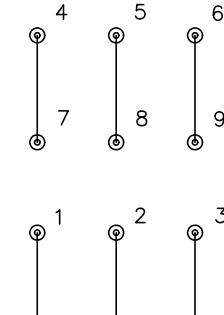


LOW VOLTAGE
(2Y)



LINE

HIGH VOLTAGE
(1Y)



LINE

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