

ABB BALDOR RELIANCE III

Customer information packet

EM3663T-BG

5HP, 3480RPM, 3PH, 60HZ, 184T, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	184T
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	5.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CSA CSA EEV NEMA PREMIUM 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	None
Current @ Voltage	5.800 A @ 460.0 V 12.400 A @ 208.0 V 11.600 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	88.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater

Part Detail

Revision	C
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	06WGX782
Layout	06LYK800
Eff. date	04-29-2024
CD Diagram	CD0005
Poles	02
Leads	9#16
Proprietary	False
Created date	04-10-2019

High Voltage Full Load Amps	5.8 a
Insulation Class	H
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	L
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0628M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	15.24 IN
Power Factor	90
Product Family	General Purpose
Pulley Face Code	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Speed	3480 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP3441LUA									
CAT.NO.	EM3663T-BG								
SPEC	06-0000-0086								
HP	5								
VOLTS	230/460								
AMPS	11.6/5.8								
RPM	3480								
FRAME	184T		HZ	60		PH	3		
SF	1.15	CODE	L	DES	A	CLASS	H		
NEMA NOM. EFF	88.5	PF	90						
RATING	40C AMB-CONT								
CC	010A								
ENCL	TEFC	SER							
DE	6206		ODE	6205					
VPWM INVERTER READY									
CT6-60H(10:1)VT3-60H(20:1									
50HZ 5HP 190/380V 14/7A									SF1.0

AC Induction Motor Performance Data

Record # 75467

Typical performance - not guaranteed values

Winding: 06WGX782-R003			Type: 0628M		Enclosure: TEFC		
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		5		Full Load Torque		7.55 LB-FT	
Volts		230/460		Start Configuration		direct on line	
Full Load Amps		11.6/5.8		Breakdown Torque		35.8 LB-FT	
R.P.M.		3480		Pull-up Torque		23.1 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		27.7 LB-FT	
NEMA Design Code		A	KVA Code	L		Starting Current	59.9 A
Service Factor (S.F.)		1.15		No-load Current		2.05 A	
NEMA Nom. Eff.		88.5	Power Factor	90		Line-line Res. @ 25°C	2.85 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		57°C	
S.F. Amps				Temp. Rise @ S.F. Load		70°C	
				Locked-rotor Power Factor		51.3	
				Rotor inertia		0.125 LB-FT2	

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	56	77	86	91	93	94	92
Efficiency	85.6	89.7	90.1	89.2	87.9	85.9	88.4
Speed	3574	3547	3517	3485	3452	3413	3465
Line amperes	2.45	3.35	4.53	5.8	7.17	8.69	6.62

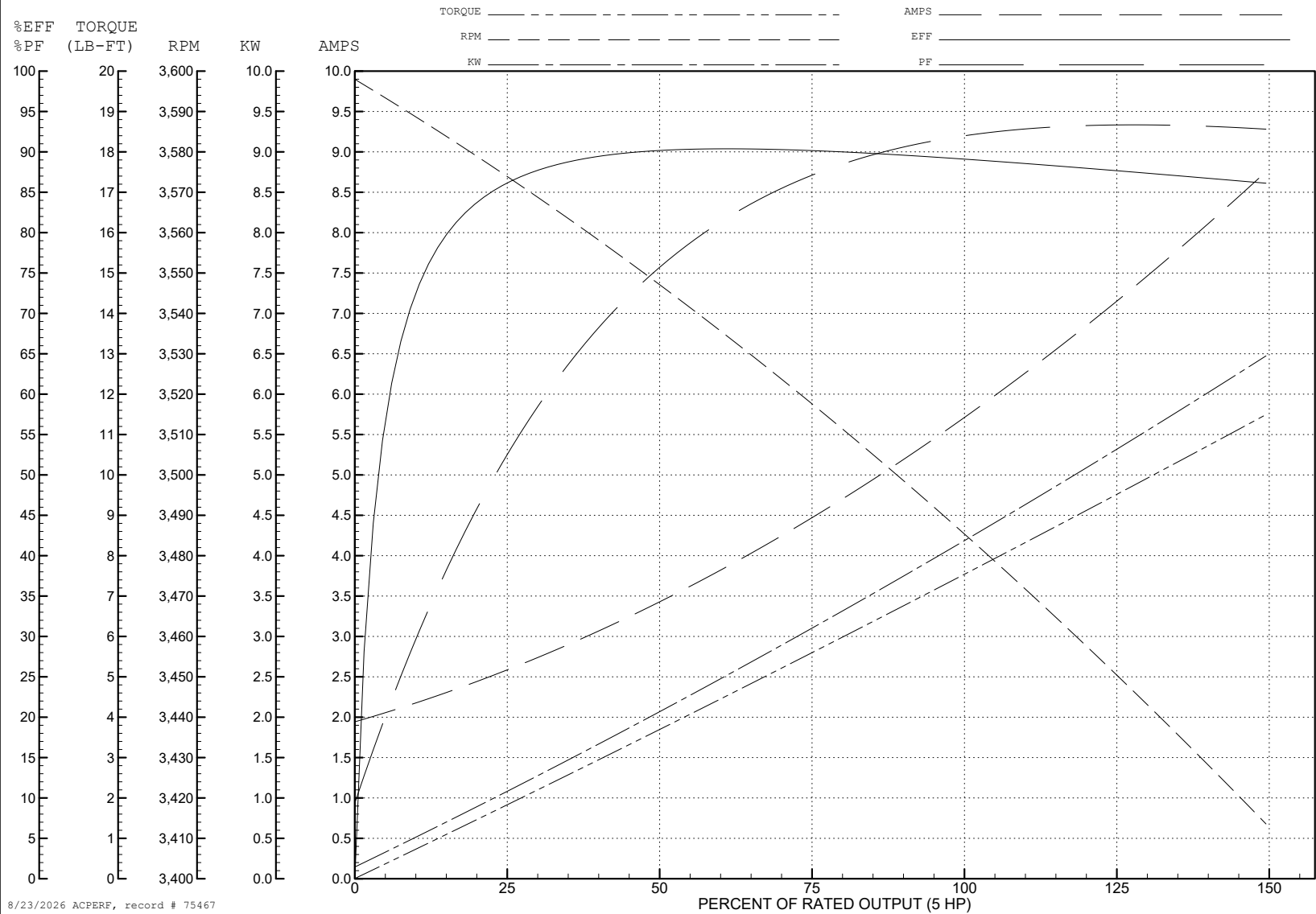
ABB Motors and Mechanical Inc.

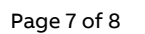
WINDING # 06WGX782

Typical performance - not guaranteed values.

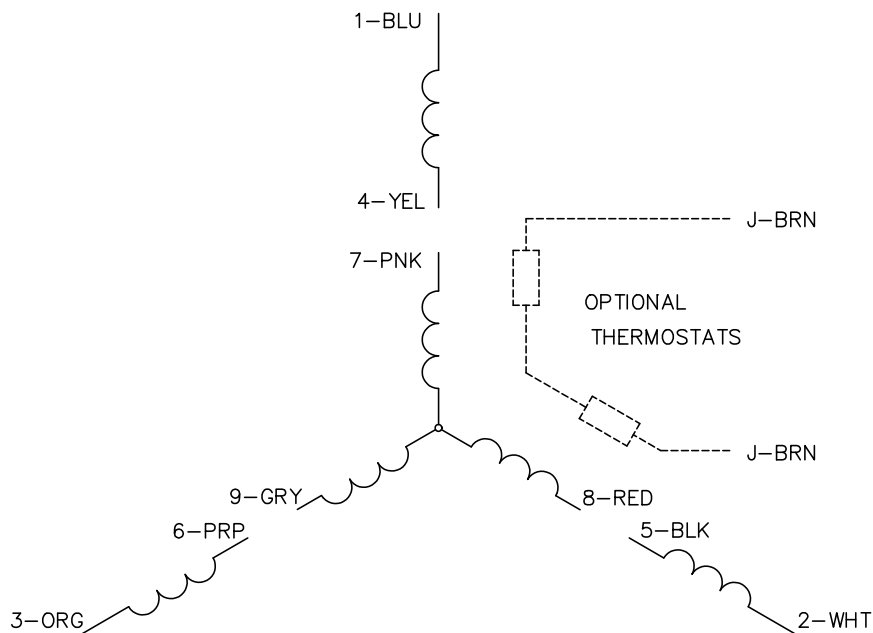
5 HP 3 PH 60 HZ 3480 RPM 460 V 0628M

TORQUES (LB-FT) : PO=35.8 PU=23.1 LR=27.7 LRA=59.9

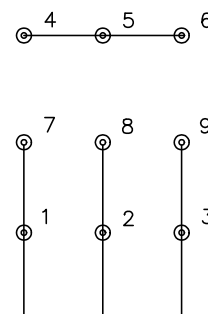




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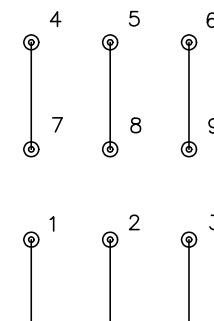


LOW VOLTAGE
(2Y)



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