ABB BALDOR RELIANCE

Customer information packet

EM3663T

5HP, 3480RPM, 3PH, 60HZ, 184T, 0628M, TEFC, F1
Class - None
Division - Not Applicable

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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	208.0 V @ 60 HZ
	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	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
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	F
Type	AC
Mech. spec.	06H002
Base	
Status	PRD/A
Elec. spec.	06WGY578
Layout	06LYH002
Eff. date	02-06-2025
CD Diagram	CD0005
Poles	02
Leads	9#16
Proprietary	False
Created date	08-30-2018

High Voltage Full Load Amps	5.8 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	L
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0628M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	15.23 IN
Power Factor	90
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	1.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3475 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.	EM3663T									
SPEC	06H002Y578G1									
HP	5									
VOLTS	208-230/460									
AMPS	12.4-11.6/5.8									
RPM	3475									
FRAME	184T	**HZ**	60	**PH**	3					
SF	1.15	**CODE**	L	**DES**	A	**CLASS**	F			
NEMA NOM. EFF	88.5	**PF**	90							
RATING	40C AMB-CONT									
CC	010A									
ENCL	TEFC	**SER**								
DE	6206	**ODE**	6205							
VPWM INVERTER READY	SFA 15-14/7									
CT6-60H(10:1)VT3-60H(20:1										
	50HZ 5HP 190/380V 14/7A									SF1.0

Accessories

Part number	Description	Multiplier
36-1749	C FACE KIT	A8

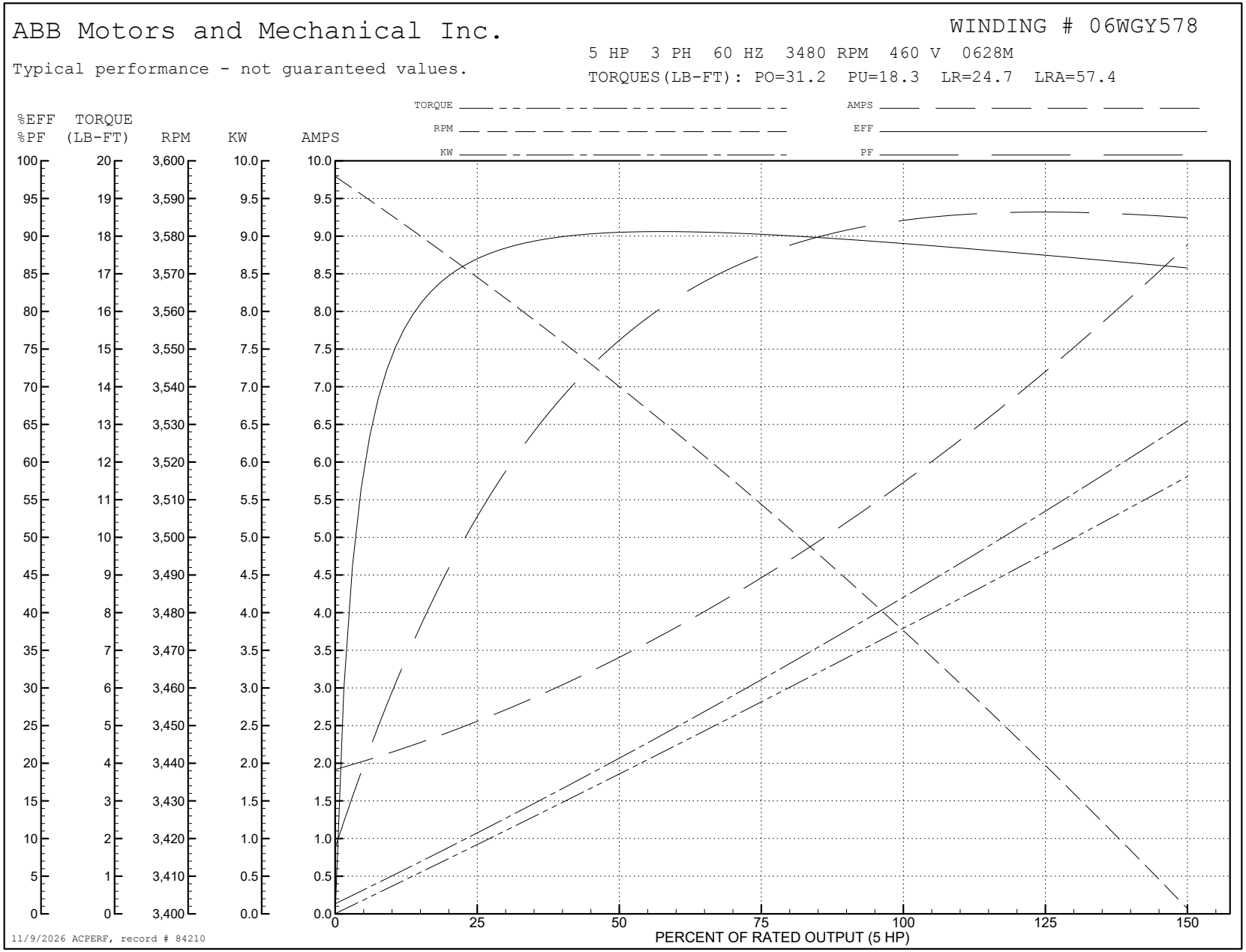
AC Induction Motor Performance Data
Record # 84210
Typical performance - not guaranteed values

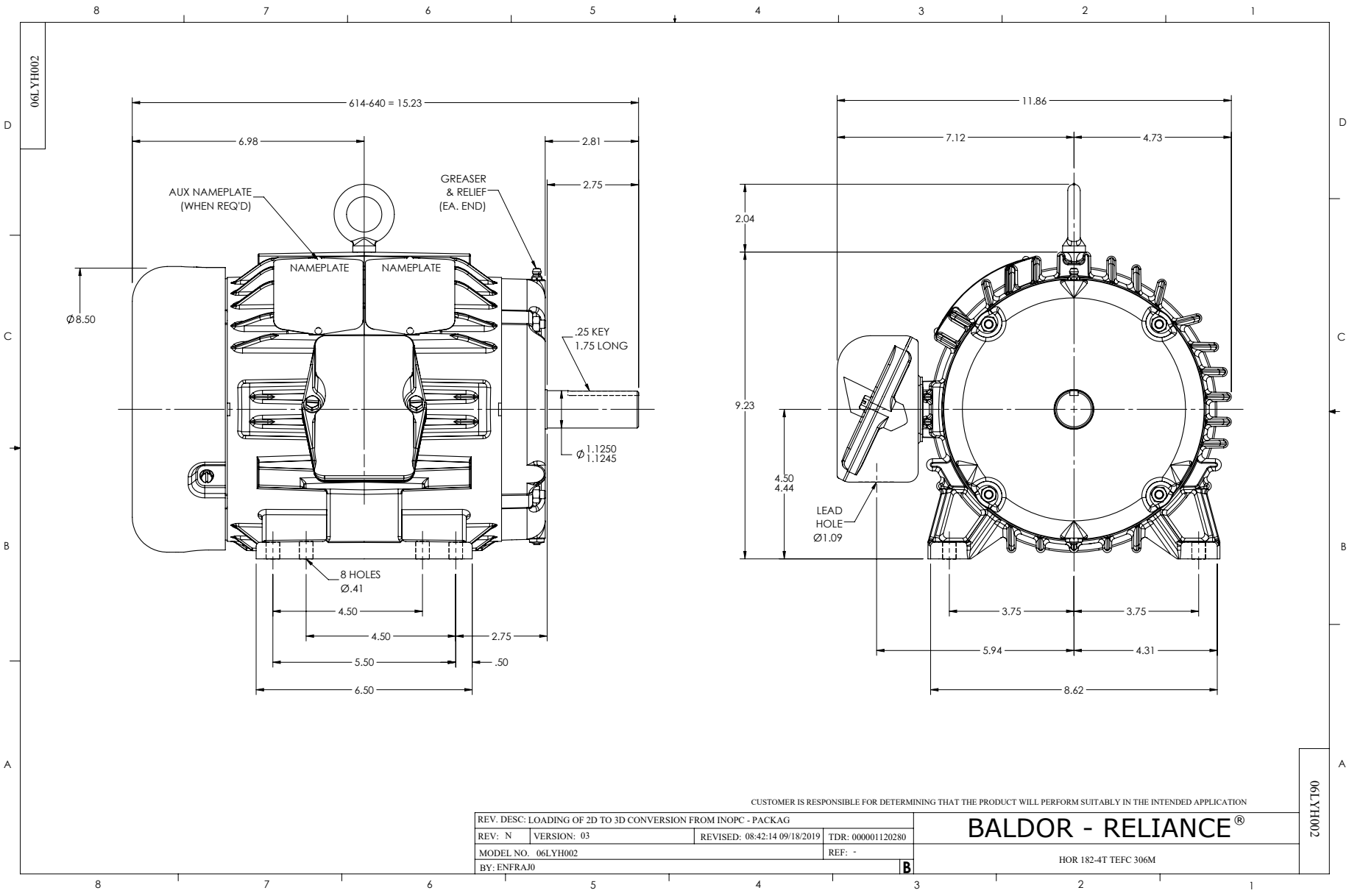
Winding: 06WGY578-R001	**Type:** 0628M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			5	**Full Load Torque**	7.579 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			11.6/5.8	**Breakdown Torque**	31.2 LB-FT
R.P.M.			3480	**Pull-up Torque**	18.3 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	24.7 LB-FT
NEMA Design Code	A	**KVA Code**	L	**Starting Current**	57.4 A
Service Factor (S.F.)			1.15	**No-load Current**	2.02 A
NEMA Nom. Eff.	88.5	**Power Factor**	91	**Line-line Res. @ 25ºC**	2.9991 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	61°C
S.F. Amps				**Temp. Rise @ S.F. Load**	77°C
				Locked-rotor Power Factor	53.6

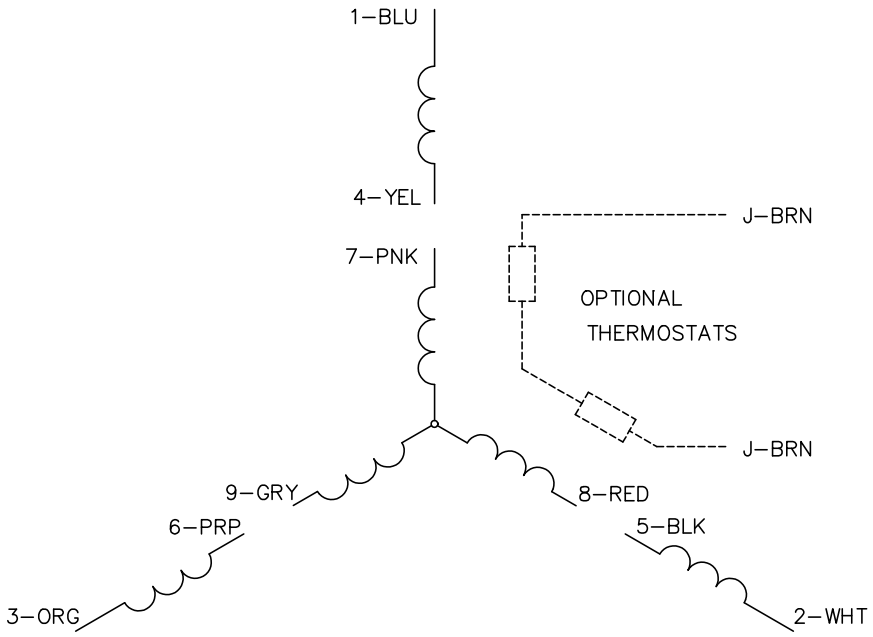
Load Characteristics 460 V, 60 Hz, 5 HP

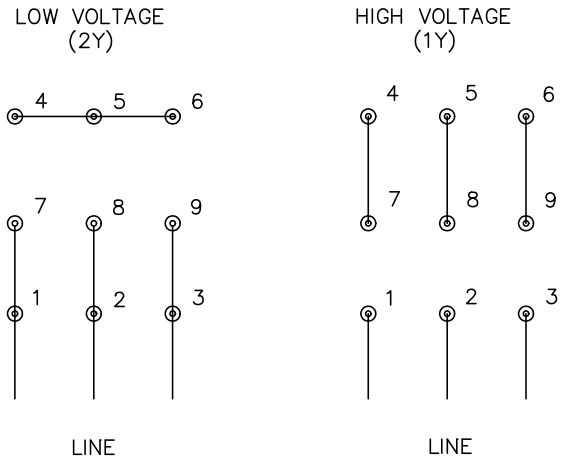
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	57	78	87	91	92	93	92
Efficiency	86.5	90.2	90.2	89.1	87.6	85.6	88.2
Speed	3567.1	3539.3	3508.7	3476	3440.1	3400.5	3454
Line amperes	2.43	3.35	4.51	5.81	7.25	8.82	6.67


ABB Motors and Mechanical Inc.
WINDING # 06WGY578
5 HP 3 PH 60 HZ 3480 RPM 460 V 0628M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=31.2 PU=18.3 LR=24.7 LRA=57.4
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (5 HP)
11/9/2026 ACPERF, record # 84210


06LYH002
614-640 = 15.23
6.98
2.81
2.75
AUX NAMEPLATE (WHEN REQ'D)
GREASER & RELIEF (EA. END)
NAMEPLATE
NAMEPLATE
Ø8.50
.25 KEY 1.75 LONG
Ø 1.1250 1.1245
8 HOLES Ø.41
4.50
4.50
2.75
5.50
.50
6.50
11.86
7.12
4.73
2.04
9.23
4.50 4.44
LEAD HOLE Ø1.09
3.75
3.75
5.94
4.31
8.62
CUSTOMER IS responsible FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOADING OF 2D TO 3D CONVERSION FROM INOPC - PACKAG
REV: N
VERSION: 03
REVISED: 08:42:14 09/18/2019
TDR: 000001120280
MODEL NO. 06LYH002
REF: -
BY: ENFRAJ0
B
BALDOR - RELIANCE®
HOR 182-4T TEFC 306M
06LYH002

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.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS