

ABB BALDOR RELIANCE III

Customer information packet

ECTM3664T-5G

2HP, 1165RPM, 3PH, 60HZ, 184T, 0642M, 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	2.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	CSA EEV NEMA PREMIUM 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	2.500 A @ 575.0 V
Design Code	B
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	Heater Included, 115 V
High Voltage Full Load Amps	2.5 a
Insulation Class	F

Part Detail

Revision	C
Type	AC
Mech. spec.	06J518
Base	
Status	PRD/A
Elec. spec.	06WGX236
Layout	06LYJ518
Eff. date	06-08-2023
CD Diagram	CD0006
Poles	06
Leads	3#16
Proprietary	False
Created date	04-20-2022

Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	3 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0642M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	15.93 IN
Power Factor	68
Product Family	Chemical Processing (Not DC)
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Standard
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1165 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

NP1260											
CAT.NO.	ECTM3664T-5G										
SPEC.	06J518X236G1										
HP	2										
VOLTS	575										
AMP	2.5										
RPM	1165										
FRAME	184T		HZ	60		PH		3			
SER.F.	1.15		CODE	K	DES	B		CL		F	
NEMA-NOM-EFF	88.5		PF	68							
RATING	40C AMB-CONT										
CC											
DE	6206		ODE	6205							
ENCL	TEFC		SN								
	INV DUTY 20:1 VT										

AC Induction Motor Performance Data

Record # 32952

Typical performance - not guaranteed values

Winding: 06WGX236-R001			Type: 0642M		Enclosure: TEFC		
Nameplate Data			575 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		2	Full Load Torque		9 LB-FT		
Volts		575	Start Configuration		direct on line		
Full Load Amps		2.5	Breakdown Torque		31.3 LB-FT		
R.P.M.		1165	Pull-up Torque		16.7 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		19.9 LB-FT	
NEMA Design Code		B	KVA Code	K	Starting Current		16.7 A
Service Factor (S.F.)		1.15	No-load Current		1.47 A		
NEMA Nom. Eff.		88.5	Power Factor	68	Line-line Res. @ 25°C		8.09 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		27°C	
S.F. Amps				Temp. Rise @ S.F. Load		32°C	
				Locked-rotor Power Factor		29	
				Rotor inertia		0.395 LB-FT2	

Load Characteristics 575 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	30	48	60	68	73	75	71
Efficiency	80.5	87.2	88.5	88.7	87.7	86.6	88.1
Speed	1193	1186	1178	1170	1161	1150	1165
Line amperes	1.57	1.8	2.13	2.5	2.94	3.45	2.76

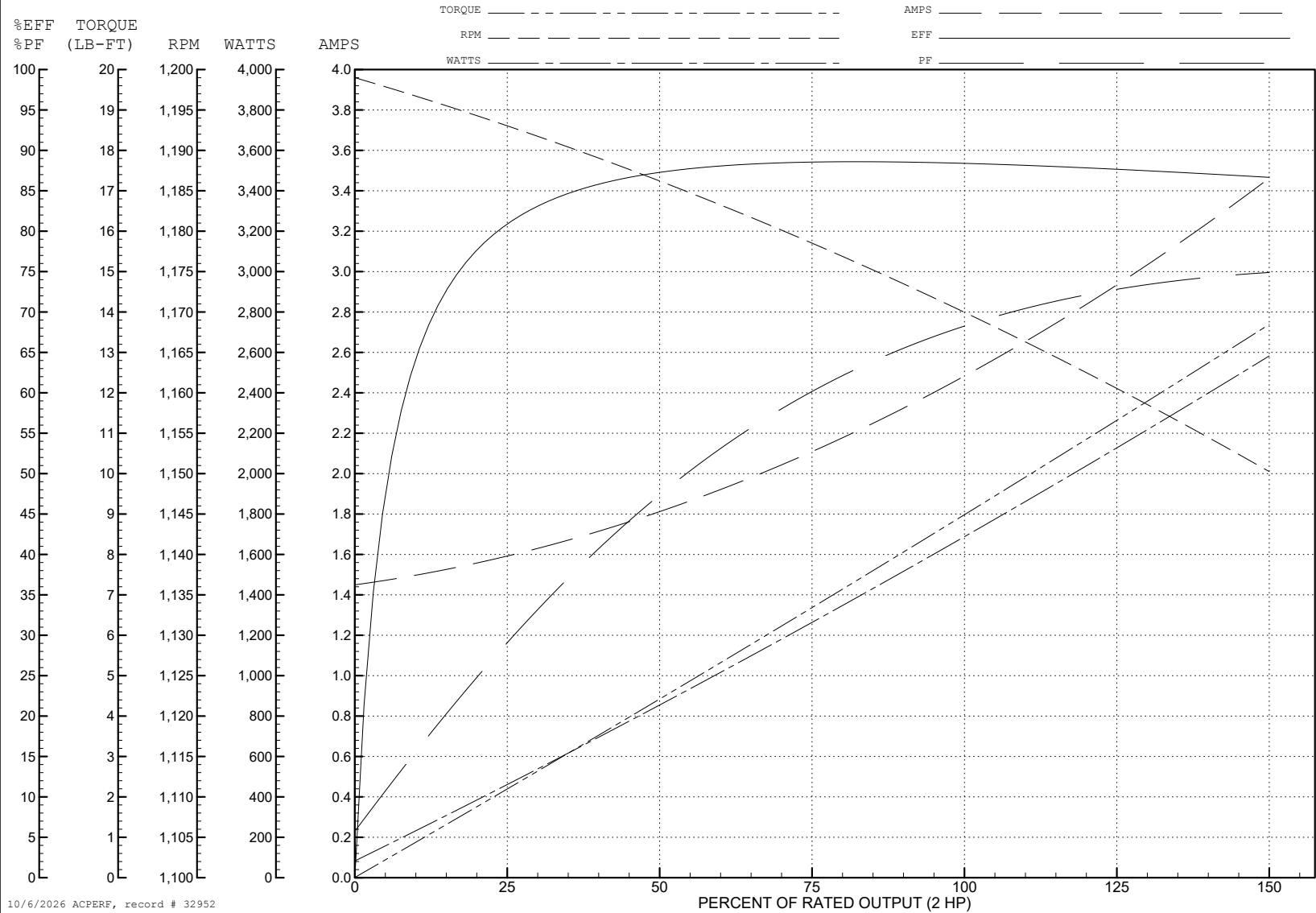
ABB Motors and Mechanical Inc.

WINDING # 06WGX236

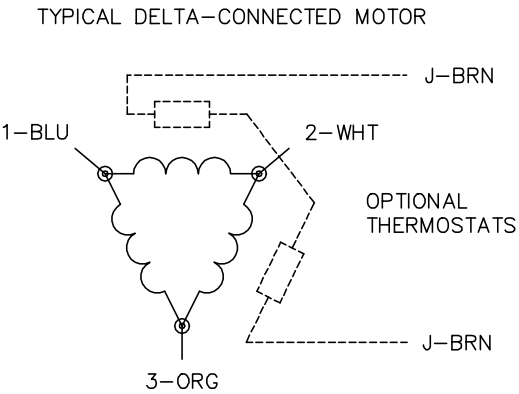
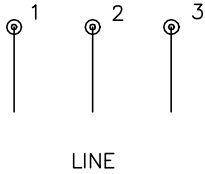
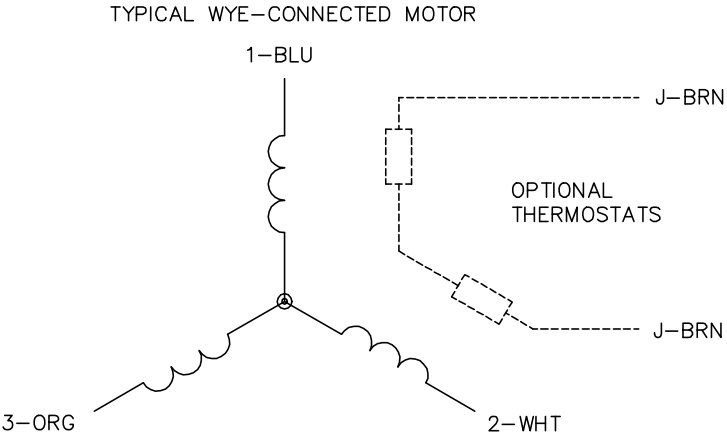
Typical performance - not guaranteed values.

2 HP 3 PH 60 HZ 1165 RPM 575 V 0642M

TORQUES (LB-FT): PO=31.3 PU=16.7 LR=19.9 LRA=16.7



CD0006



- NOTES:
1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
 2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
 3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
 4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
 5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: E	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\141	REVISED: 10: 24: 49 02/19/2019	BY: ENBRIRO
MTL: —		

BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

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