

ABB BALDOR RELIANCE III

Customer information packet

ECP83664T-4

2HP, 1165RPM, 3PH, 60HZ, 184T, 0642M, TEFC, F1

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	184T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP A,B,C,D
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	2.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CCSA US 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
Constant Torque Speed Range	1.8
Current @ Voltage	3.200 A @ 460.0 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 Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	AH
Type	AC
Mech. spec.	06H759
Base	
Status	PRD/A
Elec. spec.	06WGX234
Layout	06LYH759
Eff. date	10-01-2025
CD Diagram	CD0006
Poles	06
Leads	3#16
Proprietary	False
Created date	12-03-2010

Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	3.2 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	1800 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 16 AWG
Motor Lead Termination	Ring Terminals
Motor Standards	NEMA
Motor Type	0642M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	15.93 IN
Power Factor	68
Product Family	Super-E Chemical Processing
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 Extension Location	Pulley End
Shaft Ground Indicator	No 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

NP4328									
CAT.NO.	ECP83664T-4								
SPEC.	06H759X234G1								
HP	2 TE				IP	56			
VOLTS	460								
AMPS	3.2								
R.P.M.	1165								
FRAME	184T		HZ		60		PH	3	
SER.F.	1.15	CODE	K	DES.	B	CLASS	F		
RATING	40C AMB-CONT								
SN									
DE	6206		ODE		6206				
NEMA NOM. EFF.	88.5		P.F.		68				
GUAR. MIN. EFF.	86.5		CC	010A					
T. CODE	T3C		TEMP=		160				

NP3186									
SPEC.	06H759X234G1								
ABMA DE BRG	30BC02X30X								
ABMA ODE BRG	30BC02X30X								
GREASE	POLYREX EM								
MOTOR WEIGHT	130	ROTOR BARS		27	STATOR BARS		36		
MAX. R.P.M.	1800	MAX. KVAR		1.0					
INV.TYPE	PWM								
T=	160								
CHP	60	TO	90						
CT	1.8	TO	60						
VT	0-	TO	60						
HTR-VOLTS	N/A	HTR-AMPS		N/A					
HTR-WATTS		MAX. SPACE HEATER TEMP.					N/A		

AC Induction Motor Performance Data

Record # 117238

Typical performance - not guaranteed values

Winding: 06WGX234-R018			Type: 0642M		Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		2	Full Load Torque			9.057 LB-FT
Volts		460	Start Configuration			direct on line
Full Load Amps		3.2	Breakdown Torque			31.2 LB-FT
R.P.M.		1165	Pull-up Torque			16.7 LB-FT
Hz	60	Phase	Locked-rotor Torque			19.9 LB-FT
NEMA Design Code	B	KVA Code	Starting Current			25 A
Service Factor (S.F.)		1.15	No-load Current			1.84 A
NEMA Nom. Eff.	88.5	Power Factor	Line-line Res. @ 25°C			5.4163 Ω
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load			26°C
S.F. Amps			Temp. Rise @ S.F. Load			31°C
			Locked-rotor Power Factor			28.5
			Rotor inertia			0.395 lb-ft²

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	31	48	60	68	73	75	71
Efficiency	80.6	87.1	88.6	88.5	88	86.7	88.3
Speed	1193.2	1186.2	1178.6	1170.4	1161.3	1150.7	1165
Line amperes	1.97	2.26	2.67	3.14	3.68	4.33	3.46

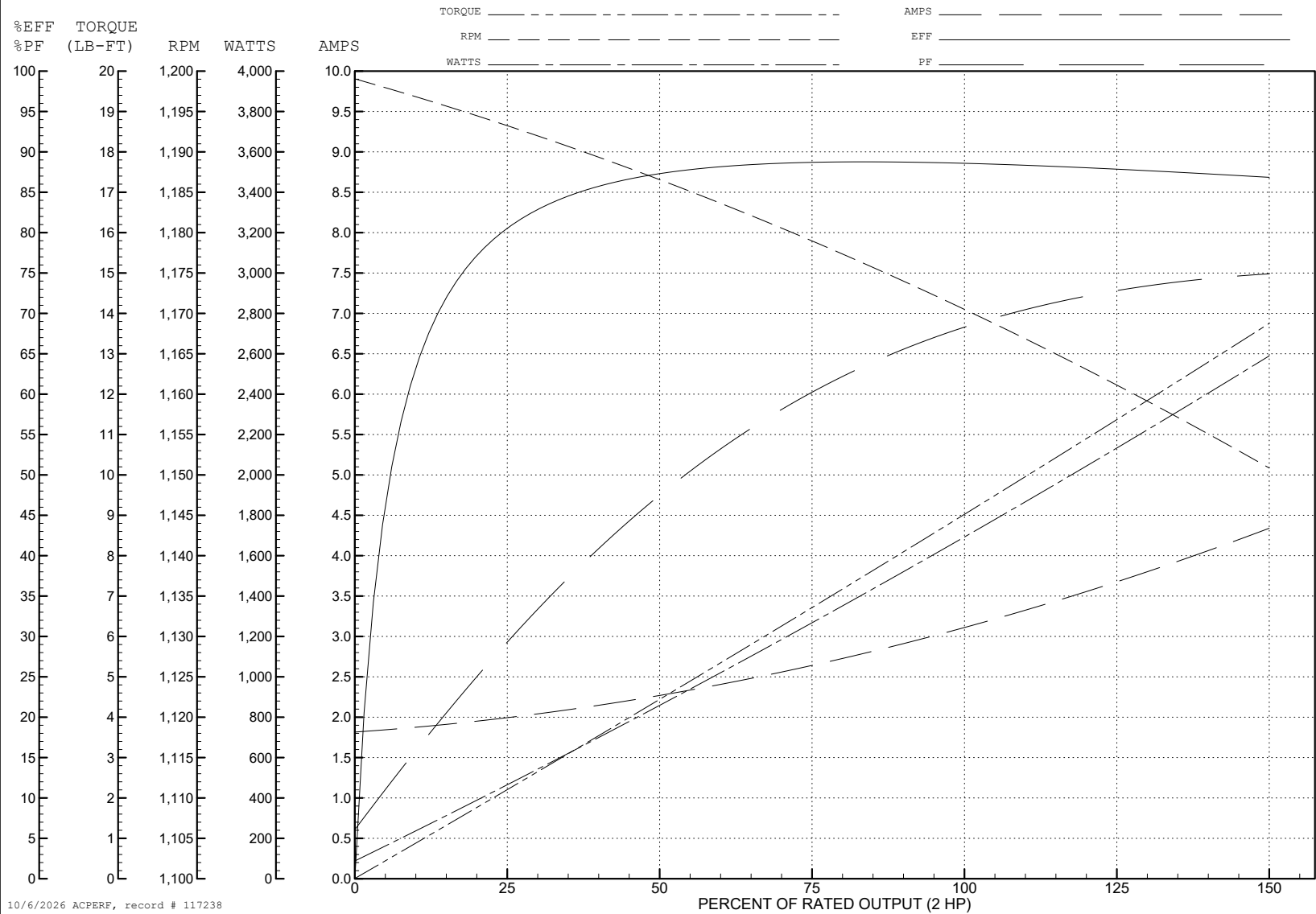
ABB Motors and Mechanical Inc.

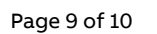
WINDING # 06WGX234

Typical performance - not guaranteed values.

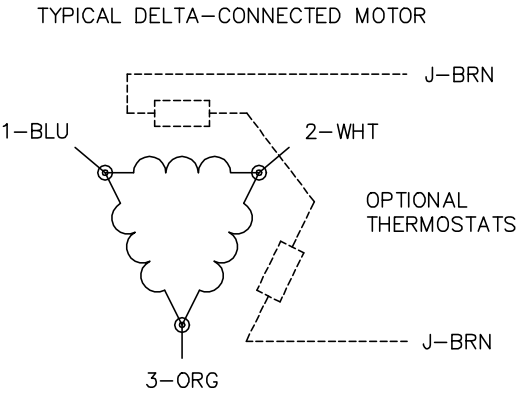
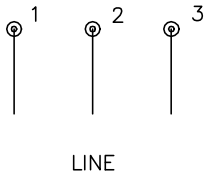
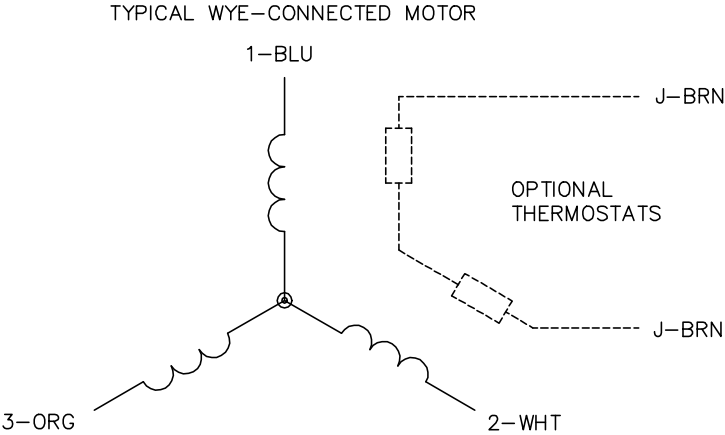
2 HP 3 PH 60 HZ 1165 RPM 460 V 0642M

TORQUES (LB-FT): PO=31.2 PU=16.7 LR=19.9 LRA=25





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

SH 1 of 1