

ABB BALDOR RELIANCE III

Customer information packet

ECP83660T-5

3HP, 3450RPM, 3PH, 60HZ, 182T, 0632M, TEFC, F1

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	182T
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	3.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	575.0 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	6
Current @ Voltage	2.700 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 Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	AA
Type	AC
Mech. spec.	06H759
Base	
Status	PRD/A
Elec. spec.	06WGX185
Layout	06LYH759
Eff. date	07-17-2024
CD Diagram	CD0006
Poles	02
Leads	3#18
Proprietary	False
Created date	05-17-2010

Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	2.7 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 18 AWG
Motor Lead Termination	Ring Terminals
Motor Standards	NEMA
Motor Type	0632M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	15.93 IN
Power Factor	94
Product Family	Chem Process S/P 32-8 IEEE 841
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	3450 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.	ECP83660T-5								
SPEC.	06H759X185G1								
HP	3 TE			IP	56				
VOLTS	575								
AMPS	2.7								
R.P.M.	3450								
FRAME	182T		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.		94				
GUAR. MIN. EFF.	86.5		CC		010A				
T. CODE	T3C		TEMP=		160				

NP3186									
SPEC.	06H759X185G1								
ABMA DE BRG	30BC02X30X								
ABMA ODE BRG	30BC02X30X								
GREASE	POLYREX EM								
MOTOR WEIGHT	116	ROTOR BARS		28	STATOR BARS		36		
MAX. R.P.M.	5400	MAX. KVAR		N/A					
INV.TYPE	PWM								
T=	160								
CHP	60	TO		90					
CT	6	TO		60					
VT	3	TO		60					
HTR-VOLTS	N/A	HTR-AMPS		N/A					
HTR-WATTS		MAX. SPACE HEATER TEMP.							N/A

AC Induction Motor Performance Data

Record # 95363

Typical performance - not guaranteed values

Winding: 06WGX185-R005			Type: 0632M		Enclosure: TEFC	
Nameplate Data			575 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		3	Full Load Torque		4.53 LB-FT	
Volts		575	Start Configuration		direct on line	
Full Load Amps		2.7	Breakdown Torque		21.1 LB-FT	
R.P.M.		3450	Pull-up Torque		10.9 LB-FT	
Hz		60	Phase		3	
NEMA Design Code		B	KVA Code		K	
Service Factor (S.F.)		1.15	No-load Current		0.642 A	
NEMA Nom. Eff.		88.5	Power Factor		94	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		31°C
S.F. Amps				Temp. Rise @ S.F. Load		39°C
				Locked-rotor Power Factor		42.3
				Rotor inertia		0.144 lb-ft²

Load Characteristics 575 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	70	86	91	94	94	94	94
Efficiency	83.3	88.5	89.2	88.5	87.2	85.4	87.7
Speed	3567	3540	3511	3480	3446	3410	3460
Line amperes	0.944	1.46	2.06	2.71	3.41	4.16	3.13

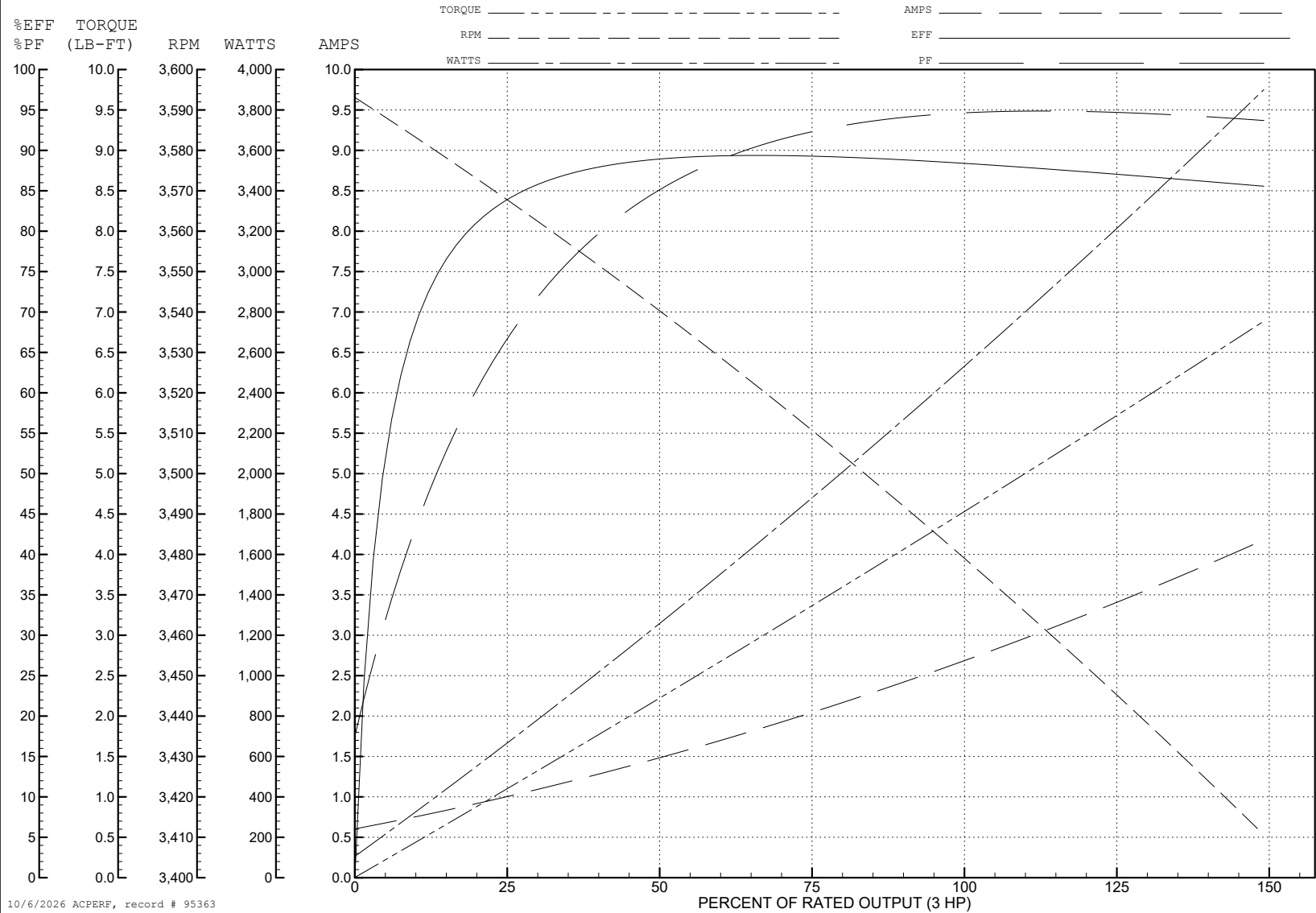
ABB Motors and Mechanical Inc.

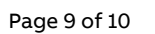
WINDING # 06WGX185

Typical performance - not guaranteed values.

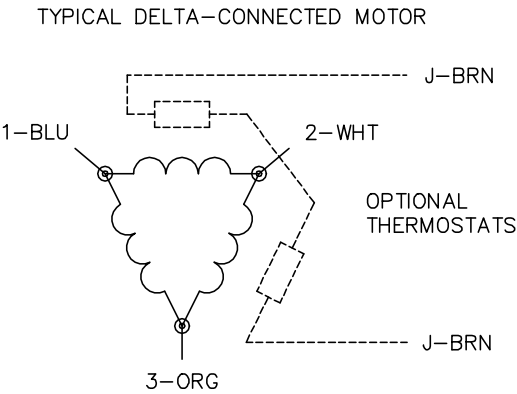
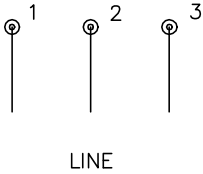
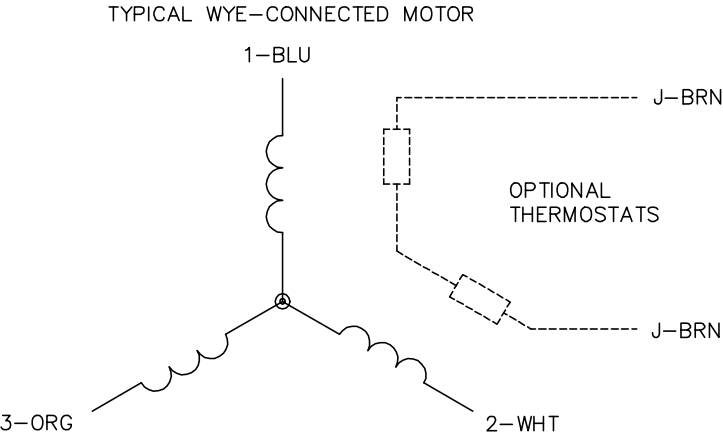
3 HP 3 PH 60 HZ 3450 RPM 575 V 0632M

TORQUES (LB-FT): PO=21.1 PU=10.9 LR=14.2 LRA=25.5





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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