

ABB BALDOR RELIANCE III

Customer information packet

ECP83667T-4

1.5HP, 1170RPM, 3PH, 60HZ, 182T, 0630M, TEFC, F

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	1.500 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	1.5
Current @ Voltage	2.500 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	87.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	AE
Type	AC
Mech. spec.	06H759
Base	
Status	PRD/A
Elec. spec.	06WGX235
Layout	06LYH759
Eff. date	03-05-2026
CD Diagram	CD0006
Poles	06
Leads	3#16
Proprietary	False
Created date	12-06-2010

Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	2.5 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	0630M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	15.93 IN
Power Factor	65
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	No Slinger
Speed	1170 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.	ECP83667T-4								
SPEC.	06H759X235G1								
HP	1.5 TE			IP	56				
VOLTS	460								
AMPS	2.5								
R.P.M.	1170								
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.	87.5	P.F.		65					
GUAR. MIN. EFF.	85.5	CC	010A						
T. CODE	T3C	TEMP=		160					

NP3186									
SPEC.	06H759X235G1								
ABMA DE BRG	30BC02X30X								
ABMA ODE BRG									
GREASE	POLYREX EM								
MOTOR WEIGHT	114	ROTOR BARS		27	STATOR BARS		36		
MAX. R.P.M.	1800	MAX. KVAR		.88					
INV.TYPE	PWM								
T=	160								
CHP	60	TO	90						
CT	1.5	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 # 92329

Typical performance - not guaranteed values

Winding: 06WGX235-R017			Type: 0630M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		1.5	Full Load Torque		6.7297 LB-FT		
Volts		460	Start Configuration		direct on line		
Full Load Amps		2.5	Breakdown Torque		18.3 LB-FT		
R.P.M.		1170	Pull-up Torque		12.5 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		7.6 LB-FT	
NEMA Design Code		B	KVA Code	K	Starting Current		20 A
Service Factor (S.F.)		1.15	No-load Current		1.5269 A		
NEMA Nom. Eff.		87.5	Power Factor	65	Line-line Res. @ 25°C		7.01 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		26°C
S.F. Amps			Temp. Rise @ S.F. Load		32°C		
			Locked-rotor Power Factor		30.4		
			Rotor inertia		0.282 lb-ft²		

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	29.6707	47.442	60.0046	68.1038	71.3725	73.0749	67
Efficiency	74.5607	83.5065	86.3466	87.5	87.2911	87.1982	87.2
Speed	1192.95	1186.71	1180.05	1172.91	1168.35	1165.11	1167
Line amperes	1.5994	1.7738	2.0364	2.3683	2.5946	2.7588	2.76

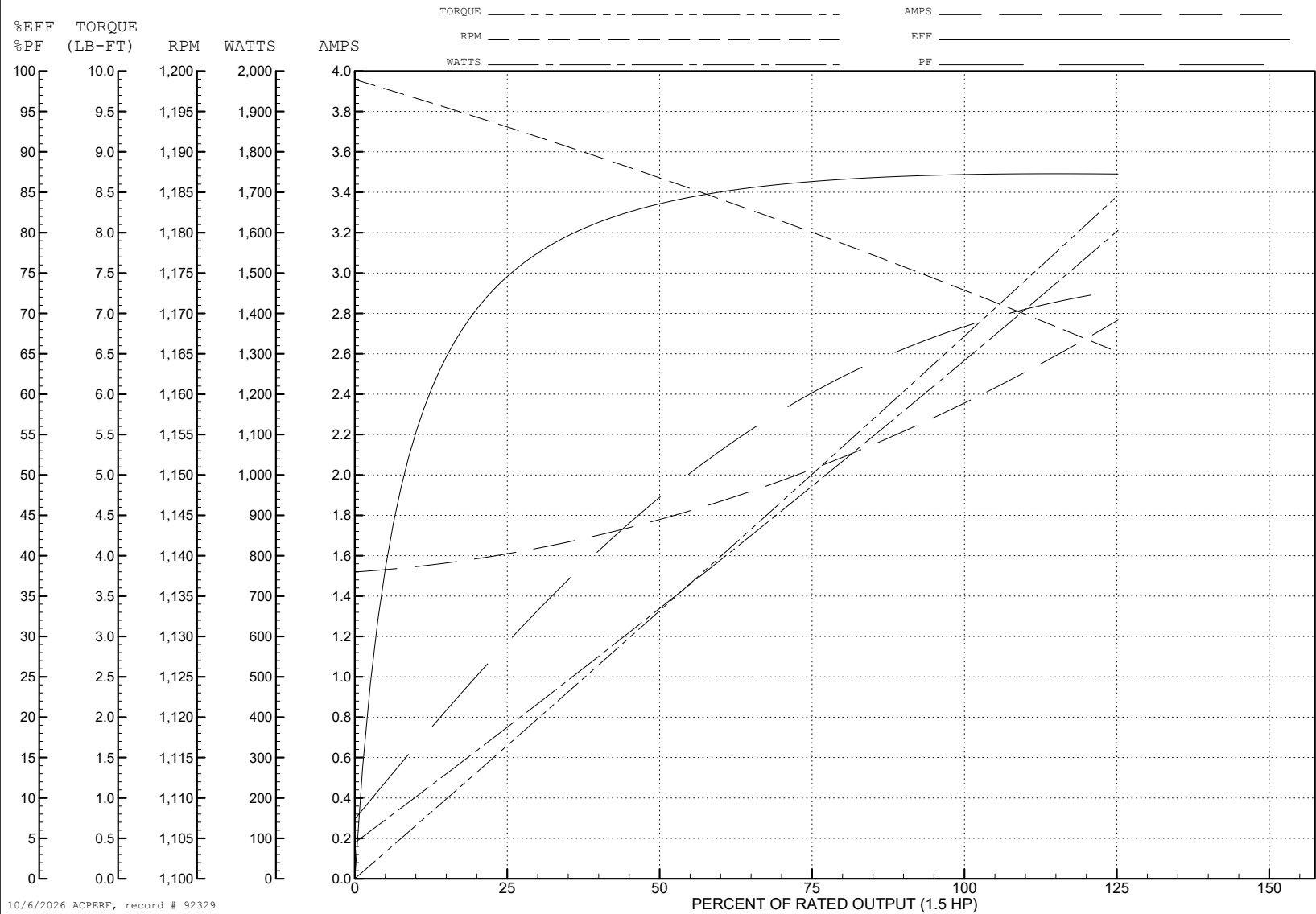
ABB Motors and Mechanical Inc.

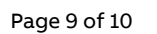
WINDING # 06WGX235

Typical performance - not guaranteed values.

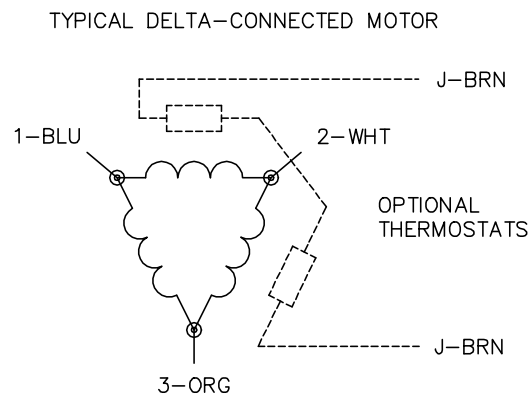
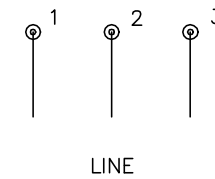
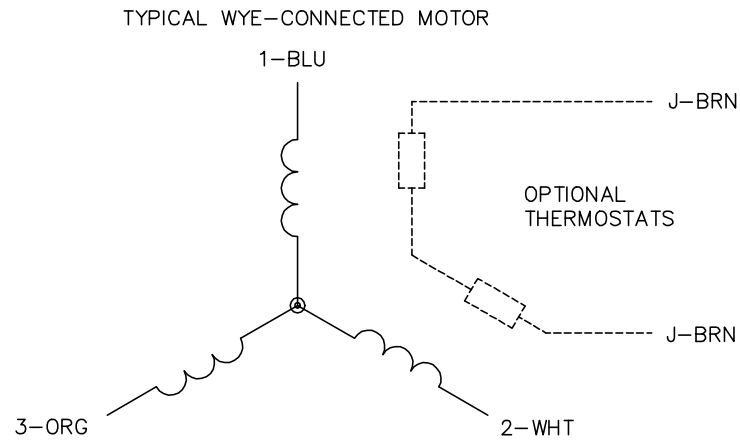
1.5 HP 3 PH 60 HZ 1170 RPM 460 V 0630M

TORQUES (LB-FT): PO=18.3 PU=12.5 LR=7.6 LRA=20





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